

The logo for aemc, consisting of the lowercase letters 'aemc' in white, set against a dark brown rectangular background.

## **Cowal Gold Project**

### **Independent Environmental Audit 30 March – 3 April 2009**

**May 2009**

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## EXECUTIVE SUMMARY

An independent environmental audit of the mining and infrastructure areas of the Cowal Gold Project (CGP) was conducted between the 30 March and 3 April 2009 by Trevor Brown and Robert Drury, of Trevor Brown & Associates, to assess the status of the CGP operation of the mine and ore processing plant, in accordance with the Minister's Conditions of Approval (MCoA) 8.8(a).

The compliance audit was conducted generally in accordance with the Australian/New Zealand Standards AS/NZS ISO 19011:2003 - Guidelines for Quality and/or Environmental Management System Auditing.

This audit reviewed the status of compliance of the CGP operations from June 2008 to March 2009.

The files held at the CGP site and interview/discussions with available site personnel provided the auditors with the required information and documentation for the verification of compliance of the CGP operations with the MCoA and other statutory approvals.

This Independent Environmental Audit has been conducted in response to the recommendation made by the Independent Monitoring Panel in their Annual Report 2007, that the Independent Environmental Audits be conducted on an annual basis. Barrick has conformed with this recommendation.

An extension of time for the review and revision/update of the Environmental Management Plans (to address the current operations of the mine and process plant) to satisfy Minister's Condition of Approval 3.2, has been sought from the Director General.

Ongoing management of erosion and sediment control on the site is required for the long term maintenance of the mine lease area to ensure the stability and rehabilitation of the disturbed and constructed surfaces. The applicability of the mitigation measures outlined in the Erosion and Sediment Control Plan for the operational management and consistency of implementation with the MOP should be confirmed during the required Environmental Management Plan review.

Review and rationalisation of the Surface Water, Groundwater, Meteorological & Biological Monitoring Plan is also proposed by CGP to ensure that the monitoring conducted provides information that verifies compliance with the project approvals and is relevant to the operational phase of the mine and process plant.

EPL condition O3.1 is not strictly complied with in relation to the aboveground diesel storage facility in the contractor's area. This aboveground double skin diesel storage tank is constructed in accordance with AS1692 requirements but is not strictly compliant with clause 5.9.2 of AS 1940-2004, to the extent that it only has a front sump area with a capacity of 15 litres for collection of spillage or splash from fill and dispense hoses. To correct this anomaly the double skinned tank is to be placed on the concrete containment area (with a sump) to reduce potential for spillage of fuel to the ground during filling and vehicle refuelling. The AST is planned to be placed onto the pad during May 2009.

The audit findings generally confirmed a high degree of compliance with the Minister's Conditions of Approval, Environment Protection Licence conditions and requirements of the conditions attached to the Mining Lease.

# 1. INTRODUCTION

## 1.1 Background

The development consent granted for the Cowal Gold Mine (CGP) on 26 February 1999 required an independent third party audit of compliance to be conducted 12 months after commencement of processing and then each 3 years thereafter until decommissioning of the mine and ore processing operations in accordance with the Minister's Condition of Approval (MCoA) 8.8(a) - Third Party Monitoring/Auditing:

- (a) *An Independent Environmental Audit shall be completed:*
- *six monthly during construction;*
  - *12 months after commencement of ore processing;*
  - *then every three years thereafter until decommissioning of the mine and ore processing operations respectively, or as otherwise directed by the Director-General.*
- The Applicant shall conduct an environmental audit of the mining and infrastructure areas of the development in accordance with ISO 14010 - Guidelines and General Principles for Environmental Auditing, and ISO 14011 - Procedures for Environmental Auditing (or the current versions), and in accordance with any specifications required by the Director-General. Copies of the report shall be submitted by the Applicant to the Director-General, BSC, DECC, FDWE, DPI-Minerals, and CEMCC within two weeks of the report's completion for comment.*
- (i) *The audit shall:*
- (a) assess compliance with the requirements of this consent, licences and approvals;*
  - (b) in the event of any non-compliance, report on the effectiveness of the environmental management of the mine as it may relate to the area of non-compliance;*
  - (c) be carried out at the Applicant's expense; and*
  - (d) be conducted by a duly qualified independent person or team approved by the Director-General in consultation with BSC and CEMCC.*

A recommendation was made by the Independent Monitoring Panel (IMP) in their Annual Report 2007 that the Independent Environmental Audits be conducted on an annual basis. This Independent Environmental Audit was conducted for Barrick Australia Pty Ltd (Barrick) by Trevor Brown and Robert Drury of Trevor Brown & Associates between 30 March and 3 April 2009, to address the recommendation of the Independent Monitoring Panel (2007) to address the recommendation of the IMP.

## 1.2 Scope of Work

The audit was conducted generally in accordance with the Australian/New Zealand Standards AS/NZS ISO 19011:2003 - Guidelines for Quality and/or Environmental Management System Auditing.

The scope of work for the audit of the CGP included the following components:

- review of the implementation of the requirements of the development consent conditions, licences and approvals for the project for the operation of the mine and process plant;
- conduct of site inspections and review of on-site documentation and monitoring data relevant to the compliance audit;
- discussions held with project staff in relation to the development consent conditions;
- assessment of compliance of the project with the development consent conditions;
- preparation of an Independent Environmental Audit Report providing assessment of compliance against each consent condition.

## 1.3 Structure of the Audit Report

The report has been prepared to provide comment on each condition of approval in a tabulated form, with additional discussion where required on specific matters. The tabulated comments are attached for the MCoA, Environmental Protection Licence (EPL) and Mining Lease (ML), with discussion of the status of other approvals provided where relevant:

Section 1	Introduction
Section 2	Cowal Gold Project Status May 2009
Section 3	Ministers Conditions of Approval (MCoA)
Section 4	Other Approvals
Section 5	Conclusions
Attachment A	Ministers Conditions of Approval Table
Attachment B	Environment Protection Licence No. 1192 Conditions Table
Attachment C	Mining Lease No. 1535 Table
Attachment D	Bore Licence Certificates – Cowal Gold Project

Glossary

## 1.4 Compliance Tables

The status of compliance of the CGP with the conditions of consent, have been expressed in Attachments A – C, using the following terminology:

Compliance - Yes	Implies compliance with the intent and/or requirement of the approval condition.
Compliance - <b>NO</b>	The specific requirement of the consent condition was not met.
Not Activated (N/A)	The condition had not been activated because the activity had not yet commenced, or the requirement of the condition had not been triggered (e.g. complaint driven monitoring, land acquisition, etc).
Noted	No specific auditable requirement for the condition.

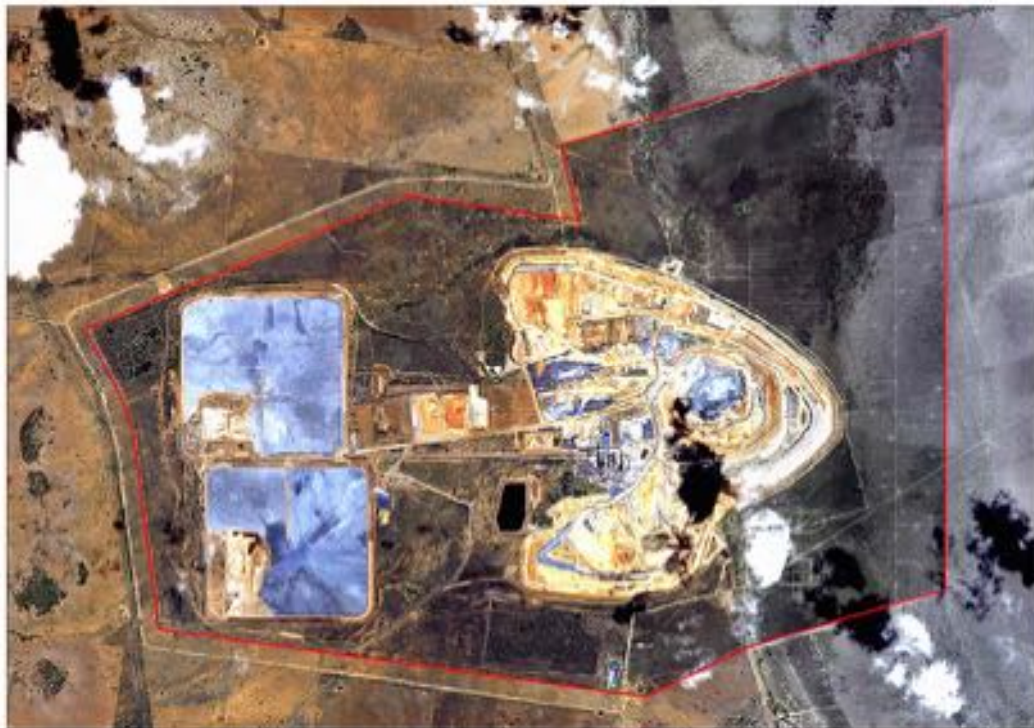
The comments in the tables for the current audit period between May 2008 and April 2009 are in **green** and the audit findings of the previous audit conducted in May 2008 are retained for reference.

## 2. PROJECT STATUS

Following receipt of the Minister's Conditions of Approval (MCoA) for the CGP in 1999 and preparation and approval of the required environmental management plans in accordance with the MCoA, construction activities for the CGP occurred between January 2004 and June 2006. Commissioning of the process plant began in March 2006. Operation of the mine and process plant has continued generally in accordance with MCoA 1.1 since 2006.

- (a) *The Development is to be carried out generally in accordance with the:*
- (i) *EIS dated 13 March 1998, including the Statement of Intent by North Gold (WA) Ltd, and prepared by Resource Strategies, as amended by the plans in Appendix 2 of this consent;*
  - (ii) *other relevant documentation, including the Applicant's primary submission, and submission in reply to the Commission of Inquiry;*
  - (iii) *modification application submitted by Barrick Australia Limited, dated 20 June 2003;*
  - (iv) *modification application and supporting information submitted by Barrick Australia Limited, dated 13 November 2003;*
  - (v) *modification application and supporting information submitted by Barrick Australia Limited, dated 22 June 2004;*
  - (vi) *modification application and supporting documentation submitted by Barrick Australia Limited, dated 15 August 2006;*
  - (vii) *modification application and supporting documentation submitted by Barrick Australia Limited, dated 24 December 2007; and*
  - (viii) *modification application and supporting documentation submitted by Barrick Australia Limited, dated 30 January 2009; and*
  - (ix) *conditions of this consent.*

**Plate 1: Cowal Gold Project Layout (Satellite Photo January 2009)**



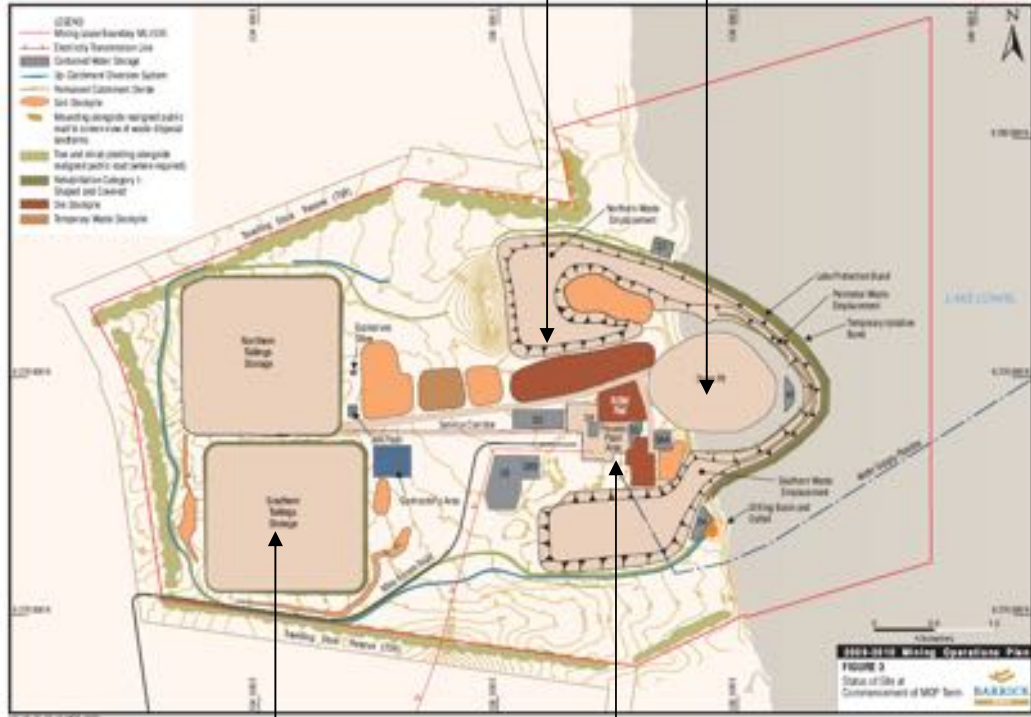
**Figure 1: Cowal Gold Mine Layout April 2009**



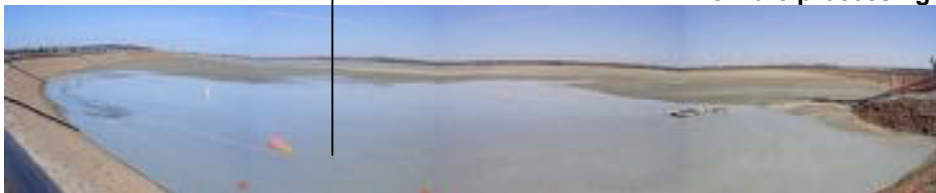
**Northern Waste Emplacement Area – April 2009**



**Cowal Gold Mine pit – April 2009**



**CGP ore processing plant - April 2009.**



**Southern Tailings Emplacement Area April 2009**



### 3. MINISTER'S CONDITIONS OF APPROVAL

Development Consent (DA14/98) under the *Environmental Planning and Assessment Act 1979* (EP&A Act) and Minister's Conditions of Approval (MCoA) for the CGP were granted on 26 February 1999. Modifications to the consent were granted on 11 August 2003, 22 December 2003, 4 August 2004, 23 August 2006, 12 March 2008 and 11 February 2009 for the overall development of the CGP.

On 25 March 2008, Barrick lodged with the Minister for Planning an application for Modification to Consent (known as E42 Modification to the CGP) pursuant to section 75W in Part 3A of the EP&A Act and clause 8J(8) of the *Environmental Planning and Assessment Regulation 2000*. The main features of the E42 Modification included expanding the surface dimensions and depth of the open pit, increase in height and area of the northern and southern waste emplacements and increase in height of the northern and southern tailings storage facilities.

The E42 Modification was the subject of proceedings in the Land and Environment Court, and Justice Biscoe delivered the written decision on 6 February 2009 and made final orders on 13 February 2009. The orders, amongst other things, restrained the Minister for Planning from determining the application for the E42 Modification under section 75W of the EP&A Act.

This Independent Environmental Audit reviewed the available documentation in relation to the requirements of the Consolidated Conditions (MCoA) and the other approvals granted for the mining activities and process plant operation for the CGP project between June 2008 and March 2009.

Where an authority other than Department of Planning has administrative responsibility for the requirements of the condition(s) or other approvals, the compliance status has been determined by reviewing correspondence and consultation undertaken by Barrick to meet the requirement of the condition of approval.

Review of compliance and comments with the MCoA for the CGP are summarised in Attachment A. Additional specific comments on the implementation of the Environmental Management Plans are presented in section 3.1 below.

#### 3.1 Management Plans

The Environmental Management Plans for the CGP were initially submitted to the Director-General and approved in 2003. Minister's Condition of Approval 3.2 requires the review and revision/update of the Environmental Management Plans (as necessary to address the current operations of the mine and process plant) to be undertaken at least every five years. Approval was sought from the Director-General on 18 June 2008 for an extension of time for the scheduled review of Management Plans.

A review of the Surface Water, Groundwater, Meteorological & Biological Monitoring Plan recommended by the Independent Monitoring Panel in their Third Independent Monitoring Panel Report, August 2007, was conducted by Professor David Fox (Environmetrics, Melbourne) in June 2008. Barrick is preparing a revised Surface, Groundwater, Meteorological & Biological Monitoring Plan as recommended by the Independent Monitoring Panel in their Fourth Independent Monitoring Panel Report, October 2008, at the time of this audit.

The following EMPs were amended and approved by the Director-General between and May 2008 and April 2009:

- Flora and Fauna Management Plan amended in relation to the change to the fauna death reporting. Approval was granted on 30 October 2008.
- The Operation Emergency Response Plan revised and submitted to DOP on 29 April 2008.
- Dust Management Plan amended for the relocation of monitoring location DG2. Approval was granted on 25 February 2009.

Comments on the implementation of the environmental management plans for the project are included under each specific condition in the MCoA and EPL tables in Attachments A and B. The following comments are provided where commitments in the management plans were made by Barrick for the CGP and specific additional comment was required.

### ***Indigenous Archaeology and Cultural Heritage Management Plan***

The Indigenous Archaeology and Cultural Heritage Management Plan was prepared by Barrick in consultation the Wiradjuri Condobolin Corporation (WCC) in writing on 6 August 2003. Approval was given under the auspices of the Wiradjuri Condobolin Culture and Heritage Company (WCC&HC) which was set up to manage the cultural and heritage component of the agreement between Barrick and the Wiradjuri Condobolin People. The following comments are provided in relation to the implementation of the management program for indigenous archaeology and cultural heritage:

- Archaeological investigations have been undertaken by Cultural Heritage Officers provided by WCC working under the Principal Consulting Archaeologist, prior to land disturbance or earthworks at the CGP mine lease site between May 2008 and March 2009. The works and collection of artefacts have been conducted under the Section 87 Permits and 90 Consents issued for the project by NPWS. A Letter of Certification for the Southern Waste Dump Area was issued on 15 September 2008. The associated clearance diagram was updated on 4 September 2008.
- The Master Inventory of items found during archaeological investigations was updated by Dr Pardoe on 1 September 2008. Construction of the Study Centre and Keeping Place for the Aboriginal items found on the CGP Lease area has commenced at Condobolin following Council approval.
- No meetings were held with Cowal Project Co-ordinating Committee (CPCC) between June 2008 and March 2009 but a formal Deed Review was carried out on 29 January 2009. A meeting scheduled for 5 March 2008 with the ETBC was cancelled by WCC. Meetings are scheduled for the latter half of 2009.
- There were no incidents reported with respect to archaeological matters during the audit period.
- Bland Shire Council has given conditional approval (letter 6 March 2009) to interpretive material and an audio-visual presentation relating to the Cowal West Homestead buildings and associated pastoral activity being housed at the Interpretive Centre on the Hillgrove property.

### ***Flora and Fauna Management Plan***

The Flora and Fauna Management Plan presents the general management strategies for the conservation of wildlife values within ML1535 and around Lake Cowal. The Threatened Species Management Protocol and Vegetation Clearance Protocol developed as part of the Flora and Fauna Management Plan are operational. The following comments are provided in relation to the implementation of the Flora and Fauna Management Plan:

- No replanting has occurred in the four monitoring quadrants set up on Fellmans Hill Revegetation Enhancement Project (RVEP) since May 2008 due to the drought conditions.
- No additional tree or shrub planting has occurred on the ML and CGP properties since May 2008 due to the dry conditions.

- Shaping of the southern lower batters of the southern waste rock emplacement area was undertaken in March 2009.
- 10 ha of the Southern Tailings Storage Facility, including 3 ha of rock ribbons, were seeded with Japanese Millet and add gypsum addition of 10t/ha during early 2009
- A Vegetation Clearance Protocol Report for the Southern Waste Emplacement (Campaign 2) was prepared in August 2008
- The Threatened Species Management Protocol was not triggered during the period June 2008 to March 2009
- Fauna Incident Notifications are to be reported within 24 hours if cyanide is suspected to be the causal agent with other faunal deaths reported in the AEMR (in accordance with the approval on 12 March 2008 for modification to the reporting requirements).
- The trial use of biosolids on areas for rehabilitation is ready to commence on the NTSF east wall. Application of 10 t/ha of gypsum incorporated into the trial area materials has occurred on 10ha of the STSF walls and rock ribbons area. The biosolids trial will start when the surface of the east wall is finally shaped. The objective of the biosolids trial is to determine using Landscape Function Analysis and other soil physical and chemical analyses, the relative effectiveness of biosolids application and rock ribbons with carbon based mulch treatment in stabilising the soil on rehabilitation areas of the Tailings Storage Facilities.
- A bioremediation facility for the treatment of hydrocarbon contaminated soils has been commissioned, treating a 3 year backlog of small volume surface soil on-site spillages.
- The Australian National University (ANU) trial plots study has moved from an Honours project to a PhD study.
- The Natural Sequence Farming Project at Spring Creek continued to function well in a drought decade. Three new waste rock wings were installed on the southern low flow diversion channel to combat 1 m erosion losses on edges.

### ***Erosion and Sediment Control Management Plan***

The Erosion and Sediment Control Management Plan 2003 presents general measures to be implemented for the project.

Erosion and sediment control management during the June 2008 to March 2009 period involved maintenance of eroded areas and inspection of sediment control structures after rainfall events.

The ongoing management of erosion and sediment control on the site and particularly the batters of the lake protection bund require review to ensure that the rehabilitation of the constructed surfaces is maintained for long term stability (see Plates 2 and 3). The applicability of the plan to the current operational management of the site should be confirmed in the management plan review process.

Rehabilitation trials are planned during 2009 for the Southern Tailings Storage Facility, Southern Waste Rock Emplacement and Northern Waste Rock Emplacement areas to control erosion. In fill testing of soils was carried out in late 2008 for Phase E of the Southern Waste Rock Emplacement.



**Plate 2:** Erosion on the lake protection bund from rainfall runoff.



**Plate 3:** Road maintenance repaired erosive deterioration of the access track on the southern side of the Lake Protection bund and revegetation between the 'temporary' bund and the access track is well established stabilising the reactive soils.

### ***Soil Stripping Management Plan***

The Soil Stripping Management Plan provides the processes and scheduling for soil stripping under the Mining Operations Plan 2007-2009 (prepared in accordance with the Mining Lease requirements).

During the June 2008 to March 2009 period soil stripping was carried out at the southern waste rock emplacement area and Phase 3 of the open pit.

To date 2.03Mm<sup>3</sup> of subsoil and 1.64Mm<sup>3</sup> of topsoil have been stockpiled. Stockpiles are managed generally in accordance with the Soil Stripping Management Plan. Soil stockpiles are sign posted.

The topsoil stockpile database is updated as new mining stockpile information is obtained from estimates determined from the site activities.

### ***Landscape Management Plan***

The requirements of Stage 1 of the Landscape Management Plan were activated with the earth mound screening structures placed along the northern boundary of the lease area in 2005.

Stage 2 Vegetation Screening along the lease boundary has been completed.

Grass trials on the lake protection bund are on-going.

### ***Bushfire Management Plan***

The Bushfire Management Plan outlines response to fires including assessment, control and cleanup, generally guided by the NSW Rural Fire Service (RFS) procedures. Response capability available in the CGP area includes three brigades in the region (Wamboyne, Clear Ridge and Blow Clear). An Emergency Services Co-operation Agreement (Memorandum of Understanding) between Barrick and the NSW Fire Brigade, was signed on 20 February 2007.

Barrick has two Category 7 fire tenders, two (2) trailer mounted 1000L firewater tanks and fire hose units housed in the Emergency Response Station located near the main maintenance workshop. Two emergency response trailers are available on site and the Emergency Response Team and other members of the Barrick workforce receive training in emergency response procedures.



CGP Emergency Response Centre



CGP Category 7 fire tenders

A first aid vehicle is permanently based on-site and a first aid room has been established in the administration building adjacent to the process plant.

A Fire Trail Register for the ML area is on the CGP computer network.

The CGP Emergency Response Team Leader attended a Bush Fire course on 14 -15 March 2009.

General CGP staff fire training has included basic theory on the Emergency Response Plan, fire awareness theory and basic hose handling techniques. The Emergency Response Team undertakes regular on site training sessions in fire fighting skills and fire appliance familiarization. The team attended joint fire response training with the Bland/Temora RFS 'Group 5' on 25 August 2008.

A Fire Hazard Audit of the CGP site and facilities was carried out in November 2008.

#### ***Land Management Plan***

The annual weed survey and farm management report was conducted in November 2008. With respect to farm management it was noted that many of the previous management recommendations had not been implemented by the lessees on the Barrick properties with degrading management actions still occurring. Barrick are continuing to communicate land management practices to the lessees.

An animal pest inspection was carried out by Condobolin Livestock Health Pest Authority (LHPA) in March 2009. Pest control activities have occurred over the audit period including fox baiting.

Four exclusion fences have been erected at the remnant vegetation area on the Hillgrove property to assess the impact of keeping kangaroos off the pasture areas.

An honours student from the University of Sydney is researching native grass recruitment utilising pasture cropping trials set up on the Hillgrove property. These trials are being conducted and funded through the Lake Cowal Foundation (LCF). Because of the very dry conditions there have been negligible results to report, with densities and populations of species remaining much the same as in the previous audit period. A positive aspect of the climatic conditions has been reduced incidence of weed species establishing in the pasture areas.

#### ***Compensatory Wetland Management Plan***

Monitoring of the survey sites identified in the Compensatory Wetland Management Plan [i.e. the compensatory wetland site (CW); the remaining areas of wetland within ML1535 (RW) and wetland areas subject to grazing (GW)], was carried out in November 2008.

#### ***Site Water Management Plan***

The approved Site Water Management Plan has been implemented with all of the water management ponds constructed and surface water drainage structures completed.

The Operations Water Budget is subject to regular review and revision by process plant staff.

NSW State Water Temporary Transfer approvals were granted pursuant to section 117J of the *Water Act* on 15 October 2007 for provision of groundwater to Barrick from B Mattiske (70BL227513), H Duff & Partners (70BL227410), and D Mattiske (70BL227753).

The following allocation assignments from State Water under section 71T of the *Water Management Act 2000* were granted to Barrick Access Licence No. 70AL603333:

20 Nov 2008 – Access Licence: 70AL603061 for 36ML  
Access Licence: 70AL600495 for 38ML  
Access Licence: 70AL600637 for 14ML  
Access Licence: 70AL603072 for 31ML  
Access Licence: 70AL601812 for 150ML  
21 Nov 2008 – Access Licence: 70AL603365 for 16ML  
22 Dec 2008 – Access Licence: 70AL601693 for 100ML  
Access Licence: 70AL602515 for 500ML  
30 Jan 2009 – Access Licence: 70AL604576 for 300ML  
Mar 2009 – Access Licence: 70AL602915 for 500ML

For the period July 2008 to January 2009, extraction from the Lachlan Regulated Rive Water Source was 1169ML under Water Allocation Licence No.13749.

Barrick contracted an independent consultant (Coffeys) during 2008 to review the collected groundwater monitoring data and production of hydrochemical diagrams with analysis of the information. The data analysis from PB was to be provided to Barrick in a format suitable for submission to the Director-General in the AEMR.

Trigger rainfall monitoring (>20mm/24hrs) occurred in May and June 2008 and on 23 February 2009.

#### ***Hazardous Waste and Chemical Management Plan***

The requirements of the Hazardous Waste and Chemical Management Plan have been implemented (e.g. bunded fuel and lubricant storage, chemical storage facilities). The approved Operations Emergency Response Plan has also been implemented and is now part of the waste and chemical management procedures. The Operations Emergency Response Plan (OERP) was revised and submitted to DOP on 29 April 2008.

The CHEMALERT system is used for all existing chemicals on site and applies to the acquisition of any new chemicals brought onto the site.

All wastes are managed through the waste storage and disposal area, under contract by J R Richards. Hydrocarbon contaminated materials (i.e. oily rags, oil filters etc) and waste oil are removed from the site under contract by Nationwide Oil and Industrial Transpacific (TPI).

Two emergency response trailers are operational and the Emergency Response Team and other members of the Barrick workforce have received training in emergency response procedures.

Numerous training exercises have been carried out by ERT members and with external emergency services throughout the audit period. High competency levels in many aspects of emergency response have been achieved by ERT members.

#### ***Dust Management Plan***

The Dust Management Plan has been implemented for the project area. Activities to suppress dust include the use of water carts for disturbed surface areas and internal haulage roads, speed restriction of vehicles on unsealed surfaces (to 20kph), and limiting soil stripping to areas immediately required for the development of the mine activities.

Treatment of mine access roads using PetroTac water emulsified bitumen has been successful in reducing dust generation from light vehicle traffic.

Water tankers are used in the pit and surrounds for dust suppression and areas where surface works occur within the mine lease (e.g. tailings emplacement walls, southern waste emplacement area etc).

Monitoring location DG2 was relocated to the southeast for access safety reasons.

No dust complaints were received from surrounding landholders between May 2008 and March 2009.

An independent consultant from the University of Sydney has reviewed all the dust monitoring data. The data analysis is included in the AEMR for submission to the Director-General. Two University of Sydney PhD students are continuing dust studies in the CGP and Lake Cowl area during 2009.

### ***Blast Management Plan***

The Blast Management Plan was activated when blasting commenced in September 2005. All blasts are monitored with overpressure and vibration monitors at six fixed locations.

Monitoring location BM04 was relocated to the south-east for access safety reasons. The monitor at location BM02 was upgraded. A new monitoring location, BM07, was initiated to provide 100% compliance of "near field"/on-site monitoring of all blasts. Previous use of a roving monitor had proved unreliable.

There were no blast vibration or overpressure exceedances at the fixed monitor locations during the period May 2008 to March 2009. No complaints were received from landholders in relation to blast nuisance.

### ***Noise Management Plan***

The Noise Management Plan (NMP) was prepared in consultation with DECC and approved by DoP in November 2004. An addendum to the NMP was prepared in July 2007 in relation to monitoring location N04.

The plan provides for the management of noise impacts and monitoring during temperature inversions, six monthly noise monitoring as outlined in the Noise Investigation Plan, methods to be utilised to monitor the impact of noise on wildlife, a program to be undertaken to survey and investigate the effectiveness of noise reduction measures implemented in relation to noisy activities, and the noise reduction procedures to be implemented in the event of exceedance of the EPL noise criteria or disturbance of bird breeding or other wildlife.

Operational components of the NMP came into effect with the approval of the Mining Operations Plan (MOP) in April 2005 and the modification of the EPL for the operational phase of the mine and process plant on 19 April 2005.

Noise surveys were conducted by Heggies Australia in July 2008 (Operational, including EPL M8.4) and January 2009. No noise exceedances were recorded.

Following the approval granted on 11 February 2009 to modify the Development Consent pursuant to section 96(1A) the noise limits in the MCoA were amended to be consistent with the EPL noise limits (refer to EPL condition L6 and MCoA 6.4(a)).

One noise complaint was received in September 2008 related to mine noise. Discussions were held with the complainant and consultation is ongoing.

#### ***Traffic Noise Management Plan***

The approved Traffic Noise Management Plan has been implemented for the CGP. Heggies Australia have conducted traffic noise surveys annually in January. The measured traffic noise levels are generally consistent with the predictions and assessments presented in the Traffic Noise Management Plan, even though there has been an increase in traffic volume along the prescribed route.

No traffic noise complaints were received during the audit period June 2008 to April 2009.

#### ***Cyanide Management Plan***

The Cyanide Management Plan was approved by DoP on 9 January 2006. The management of cyanide transport, storage and use in the process plant has been implemented in accordance with the Cyanide Management Plan. An Amended Cyanide Management Plan was approved by DoP on 30 October 2008.

Monitoring of cyanide in the discharges to the tailings storage facility is conducted twice daily. Use of the picric acid method of analysis for cyanide at the on-site laboratory was approved by the relevant agencies in 2007 and the Cyanide Management Plan was amended in August 2007 to reflect the approval.

All results of tailings monitoring exhibited low levels of  $CN_{WAD}$  during the May 2008 to March 2009 operational period, with no results exceeding the 20mg  $CN_{WAD}/L$  or the maximum 30mg  $CN_{WAD}/L$  level at the tailings storage facilities.

Monitoring of the decant water in the tailings storages has been carried out twice daily with no exceedance of cyanide concentrations having occurred.

No fauna deaths due to cyanide occurred during the audit period.



## 4. OTHER STATUTORY REQUIREMENTS

In addition to the conditions of approval attached to the Minister's consent, MCoA 12 requires:

*“The Applicant shall ensure that all statutory requirements including but not restricted to those set down by the Local Government Act 1993, Pollution Control Act 1970, Clean Air Act 1961, Clean Water Act 1970, Noise Control Act 1975, Protection of the Environment Administration Act 1991, Protection of the Environment Operations Act 1997, National Parks and Wildlife Act 1974, and all other relevant legislation, Regulations, Australian Standards, Codes, Guidelines and Notices, Conditions, Directions, Notices and Requirements issued pursuant to statutory powers by the BSC, DECC, DPI(Minerals), DSC, DWE, RTA, DPI (Agriculture), DPI(Fisheries), and RAC, are fully met..”*

The following licences, permits and approvals in Table 1 are held by Barrick for the CGP.

**Table 4.1: Licences, Approvals and Permits for CGP**

Instrument	Relevant Authority	Date Granted	Duration of Approval
Mining Lease (ML 1535)	DPI-Minerals	13 Jun 2003	21 years.
Environment Protection Licence (No. 11912)	DECC	23 Dec 2003	The licence is subject to review every three years.
Permit #1361 under section 87(1) of the <i>National Parks and Wildlife Act 1974</i>	NPWS	23 May 2002	Valid for period of exploration drilling on the lots covered by the permit.
Consent #1467 under section 90 of the NPW Act	NPWS	27 Nov 2002	The approval lapses when the Minister for Mineral Resources acknowledges that satisfactory rehabilitation work has been completed under ML1535 or 18 years after completion of construction works, whichever occurs first.
Permit #1468 under section 87(1) of the NPW Act	NPWS	27 Oct 2003	Same as Consent #1467.
Consent #1680 under section 90 of the NPW Act	NPWS	28 Jul 2003	Same as above
Permit #1681 under section 87(1) of the NPW Act	NPWS	28 Jul 2003	Same as above
Production bore licence #70BL229248	DWE	19 Dec 2003	18 December 2013
Production Bore Licences #70BL229249, #70BL229250, #70BL229251	DWE	22 Dec 2003	21 December 2013
Pit de-watering bore licences #70BL230205 – #70BL230234	DWE	6 Jan 2005	5 January 2010
Monitoring bore licences	DWE	See Attachment D	
High Security Title WAL13749 DNR Reference 70AL603333	Land and Property	21 Dec 2006	Title for allocation from Regulated River Source.
General Security WAL13748 DNR Reference 70AL603332	Land and Property	21 Dec 2006	Title for allocation from Regulated River Source.
Groundwater Licences	DWE		Refer to Attachment D

### 4.1 Mining Lease ML1535

Mining Lease (No.1535) area of 2,650 hectares was granted to Barrick under the *Mining Act 1992* on 13 June 2003. Barrick is the registered proprietor of the majority of the land on which the mining lease is located.

An updated Mining Operations Plan (MOP) developed in accordance with the Mining Lease 1535 Condition of Authority No. 25(1) to (9) covers the period April 2009 to December 2010.

Compliance with the Mining Lease conditions is summarised in the table in Attachment C.

**Rehabilitation**

Rehabilitation is undertaken in accordance with the Mining Operations Plan. The annual status of rehabilitation is reported in the AEMR section 5 (refer to Table 4.2).

**Table 4.2: Mine Lease Areas Disturbed/Rehabilitated**

Mine Lease Areas Disturbed/Rehabilitated	ha
<b>MINE LEASE AREA</b>	<b>2650</b>
<b>DISTURBED AREAS</b>	
Infrastructure Area <sup>1</sup>	321
Active Mining Area <sup>2</sup>	70
Waste Emplacements <sup>3</sup>	210
Tailings Emplacements	369
Shaped Waste Emplacement <sup>4</sup>	59
<b>TOTAL DISTURBED AREAS<sup>5</sup></b>	<b>1029</b>
<b>REHABILITATION PROGRESS</b>	
Total Rehabilitated Area <sup>6</sup>	122
<b>SURFACE OF REHABILITATED LAND</b>	
Pasture and Grasses	84
Native Forest/Ecosystems	38

- 1 Includes areas such as ore and soil stockpiles, contained water storages, processing plant and roads.
- 2 Open pit area.
- 3 Areas of waste emplacements yet to be shaped and rehabilitated.
- 4 Areas of waste emplacements that have been shaped and rehabilitated.
- 5 Includes any area that has been disturbed by mining activities.
- 6 Any areas that have been rehabilitated including areas of waste emplacements and tailings storage facilities progressively shaped and rehabilitated.

The status of rehabilitation/revegetation across the site has been affected by the drought conditions and lack of rainfall experienced in the region. Trials on the batters of the mine pit have indicated that the use of rock, subsoil, gypsum and mulch improves stability of the soils and enables vegetation to establish even in the dry conditions. Further trials using biosolids are planned for the STSFouter walls during 2009-2010.



**Plate 5: Rehabilitation trials on the mine pit batters using mulch, subsoil, rock and native seed stock/tube stock**

## 4.2 Environment Protection Licence No. 11912

Barrick received an Environment Protection Licence (EPL) 11912 under section 55 of the *Protection of the Environment Operations Act 1997* for the CGP, on 23 December 2003.

Notices of Variation of the Licence dated 29 December 2003, 21 May 2004, 24 September 2004, 19 April 2005, 17 January 2006, 16 July 2008 and 6 April 2009 have been advised.

Review of compliance with the EPL conditions is summarised in Attachment B.

The permanent groundwater monitoring piezometers in the process plant area (i.e. points 26 and 27) were installed and decommissioned prior to the completion of construction of the process plant. The replacement monitoring piezometers P415 A/B were constructed in May 2008. Two new bores were also included in the recent EPL Variation. Monitoring of the groundwater commenced for the tailings storage facilities prior to placement of any tailings. The dewatering piezometers installed around the mine pit area have been sampled in accordance with the EPL and results reported to the DECC and in the AEMR. The monitoring of groundwater quality has continued in piezometers that have been retained on the mine lease area to provide background data, in addition to the EPL specified monitoring points.

Surface water sampling in Lake Cowal (i.e. points 14-18) and stormwater quality monitoring (points 12-13) has not been conducted as there has been no water in Lake Cowal or surface runoff from the mine lease area to the lake.

Rainfall in May and June 2008 and 23 February 2009, triggered sampling of surface water sites within the mine lease area, but did not result in any significant surface water collection in the lake that would trigger the requirement for monitoring of lake water.

The meteorological station installed west of the southern TSR alignment and east of the southern tailings emplacement area that records wind speed and direction, temperature and rainfall data continuously over 15 minute periods has continued to provide meteorological information for the project area.

## 4.3 Water Licences

Bore Licence Certificates under section 115 of the *Water Act 1912* are held for the groundwater bores associated with the CGP.

Refer to Attachment D for the complete list of Bore Licence Certificates as at March 2009.

## 5. CONCLUSION

The independent environmental audit of compliance of the CGP operations with the MCoA for the mining and ore processing operations was undertaken between 30 March and 2 April 2009, for the period of June 2008 to March 2009. Site inspections, document review and discussions with relevant CGP personnel were undertaken. Additional information for verification of compliance with the MCoA was provided by Barrick as requested by the auditors.

The files held by Barrick at the CGP site provided the auditors with the required documentation for verification of implementation of the commitments in the EMP's and the information required for verification of compliance with the MCoA and other statutory approvals.

This Independent Environmental Audit has been conducted in response to the recommendation made by the Independent Monitoring Panel in their Annual Report 2007, that the Independent Environmental Audits be undertaken on an annual basis. Barrick have conformed with this recommendation.

An extension of time for the review and revision/update of the Environmental Management Plans (to address the current operations of the mine and process plant) to satisfy Minister's Condition of Approval 3.2, has been sought from the Director General. Several of the EMP's have had amendments approved since the initial submissions and approvals in 2003, so the review of the EMP content and relevance to the current site operations is to ensure that the mine and process plant operations continue to be managed in a practical achievable manner.

Ongoing management of erosion and sediment control on the site is required for the longterm maintenance of the mine lease area to ensure the stability and rehabilitation of the disturbed and constructed surfaces. The applicability of the mitigation measures outlined in the Erosion and Sediment Control Plan for the operational management and consistency of implementation with the MOP should be confirmed during the required Environmental Management Plan review.

Review and rationalisation of the Surface Water, Groundwater, Meteorological & Biological Monitoring Plan is also proposed by CGP to ensure that the monitoring conducted provides information that verifies compliance with the project approvals and is relevant to the operational phase of the mine and process plant.

EPL condition O3.1 is not strictly complied with in relation to the aboveground diesel storage facility in the contractor's area. This aboveground double skin diesel storage tank is constructed in accordance with AS1692 requirements but is not strictly compliant with clause 5.9.2 of AS 1940-2004, to the extent that it only has a front sump area with a capacity of 15 litres for collection of spillage or splash from fill and dispense hoses. To correct this anomaly the double skinned tank is to be placed on the concrete containment area (with a sump) to reduce potential for spillage of fuel to the ground during filling and vehicle refuelling. The AST is planned to be placed onto the pad during May 2009.

The audit findings confirmed compliance with the Minister's Conditions of Approval, Environment Protection Licence conditions and requirements of the conditions attached to the Mining Lease.

## Glossary of Terms

<b>AEMR</b>	Annual Environmental Management Report
<b>AR</b>	Annual Return – EPA
<b>Barrick</b>	Barrick Australia Pty Limited
<b>BCA</b>	Building Code of Australia
<b>BL</b>	Bore Licence
<b>BSC</b>	Bland Shire Council
<b>CEMCC</b>	Community Environmental Monitoring and Consultative Committee
<b>CGP</b>	Cowal Gold Project
<b>CN</b>	Cyanide
<b>CN<sub>WAD</sub></b>	Cyanide weak acid dissociable
<b>CPCC</b>	Cowal Project Coordinating Committee
<b>DA</b>	Development Application
<b>DEC</b>	Department of Environment and Conservation (includes EPA)
<b>DECC</b>	Department of Environment and Climate Change (formerly DEC)
<b>DIPNR</b>	Department of Infrastructure, Planning and Natural Resources (Now DoP)
<b>Director-General</b>	Director-General of DoP
<b>DLWC</b>	Department of Land and Water Conservation (now part of DNR)
<b>DMR</b>	Department of Mineral Resources (now DPI-Minerals)
<b>DNR</b>	Department of Natural Resources (now DWE)
<b>DoP</b>	Department of Planning (formerly DIPNR)
<b>DPI</b>	Department of Primary Industries
<b>DSC</b>	Dam Safety Committee
<b>DWE</b>	Department of Water and Energy
<b>EIS</b>	Environmental Impact Statement – Cowal Gold Project 1998
<b>EMP</b>	Environmental Management Plan
<b>EP&amp;A Act</b>	<i>Environment Planning and Assessment Act 1979</i>
<b>EPA</b>	Environment Protection Authority
<b>EPL</b>	Environment Protection Licence
<b>ETBC</b>	Employment Training and Business Committee
<b>LCF</b>	Lake Cowal Foundation
<b>MOP</b>	Mining Operations Plan
<b>NPW Act</b>	<i>National Parks and Wildlife Act 1974</i>
<b>NPWS</b>	National Parks and Wildlife Service
<b>OERP</b>	Operational Emergency Response Plan
<b>POEA</b>	<i>Protection of the Environment Operations Act 1997</i>
<b>RTA</b>	Roads and Traffic Authority
<b>SIS</b>	Species Impact Statement
<b>TSR</b>	Travelling Stock Route
<b>WAD</b>	Weak acid dissociable
<b>WCC</b>	Wiradjuri Condobolin Corporation
<b>WCC&amp;HC</b>	Wiradjuri Condobolin Culture and Heritage Company

## **ATTACHMENTS**

**Attachment A Minister's Conditions of Approval (MCoA)**

**Attachment B Environment Protection Licence (EPL)**

**Attachment C Mining Lease Conditions (ML)**

**Attachment D Bore Licence Certificates**

## ATTACHMENT A MINISTER'S CONDITIONS OF APPROVAL

### ATTACHMENT A DEVELOPMENT CONSENT – MINISTER'S CONDITIONS OF APPROVAL (MCOA)

Consolidated Consent Conditions:

Red Type represents August 2003 Modification

Green Type Represents December 2003 Modification

Blue Type Represents August 2004 Modification

Lavender Type Represents August 2006 Modification

Brown Type Represents 12 March 2008 Modification

Grey Type Represents February 2009 Modification

MCoA No.	Consent Condition	Audit Evidence	Compliance	Comments
1.	<b>GENERAL</b>			
1.1	<b>Adherence to terms of DA, EIS, SIS, etc.</b>			
	<p>(a) The Development is to be carried out generally in accordance with the:</p> <p>(i) EIS dated 13 March 1998, including the Statement of Intent by North Gold (WA) Ltd, and prepared by Resource Strategies, as amended by the plans in Appendix 2 of this consent;</p> <p>(ii) other relevant documentation, including the Applicant's primary submission, and submission in reply to the Commission of Inquiry;</p> <p>(iii) modification application submitted by Barrick Australia Limited, dated 20 June 2003;</p> <p>(iv) modification application and supporting information submitted by Barrick Australia Limited, dated 13 November 2003;</p> <p>(v) modification application and supporting information submitted by Barrick Australia Limited, dated 22 June 2004;</p> <p>(vi) modification application and supporting documentation submitted by Barrick Australia Limited, dated 15 August 2006;</p> <p>(vii) modification application and supporting documentation submitted by Barrick Australia Limited, dated 24 December 2007; and</p> <p>(viii) modification application and supporting documentation submitted by Barrick Australia Limited, dated 30 January 2009; and</p> <p>(ix) conditions of this consent..</p> <p>(b) If there is any inconsistency between the above documents, the latter document shall prevail over the former to the extent of the inconsistency. However, the conditions of this consent shall prevail over all such documents to the extent of any inconsistency.</p>		Yes	<p>The CGP has been developed generally in accordance with the EIS, Commission of Inquiry submissions, supporting documentation, the Minister's Conditions of Approval (MCoA) and Modifications to the Development Consent granted under the <i>Environment Planning and Assessment Act 1979</i>.</p> <p><u>April 2009</u></p> <p>Modification to Consent submitted to DoP in December 2007 received approval on 16 March 2008 (related to protocol for native fauna reporting), and the Modification to Consent submitted on 30 January 2009 received approval on 11 February 2009.</p>
1.2	<b>Period of Approval/Project Commencement</b>			
	(i) The development consent ends on the date which is 21 years from the date of the mining lease approval.	Letter from DMR Mining Application No. 45 – Cowal Gold Project, 18 June 2003	Noted	The mining lease (ML 1535) approval was granted with conditions on 13 June 2003. The development consent will expire on 13 June 2024.
	(ii) At least one month prior to the commencement of construction, or within such period as agreed by the Director-General, the Applicant shall submit for the approval of the Director-General a compliance report detailing compliance with all the relevant conditions that apply prior to the commencement of construction.	Development Consent Compliance Report 22 Dec 2003 Supplement to Compliance Report, 7 April 2004	Yes	<p>Pre-Construction Compliance Report was submitted to DIPNR on 22 December 2003 and approved by the Director-General on 22 Dec 2003, prior to construction activities commencing.</p> <p>A supplementary Compliance Report was submitted on 7 April 2004 related to transfer of Lot 10 in DP1059150 to the Crown for the new TSR that occurred on 31 March 2004.</p>



	(iii) At least one month prior to commissioning of the ore processing plant, or within such period as agreed by the Director-General, the Applicant shall submit for the approval of the Director-General a compliance report detailing compliance with all the relevant conditions that apply prior to the commissioning of the ore processing plant.	Compliance Report submitted to Director-General, 20 January 2006 Letter from DoP re Compliance with Condition 1.2(iii), 6 March 2006	Yes	A compliance report detailing compliance with all relevant MCoA that apply prior to the commissioning of the ore processing plant was submitted to the Director-General on 20 January 2006 and accepted by the Director-General on 6 March 2006.
	(iv) Date of commencement of construction works and date of commissioning of the ore processing plant are to be notified in writing to the Director-General and BSC, at least two weeks prior to commencement of construction works and commissioning of the ore processing plant respectively.	Letter from BDW to Director-General and BSC re Notice of Commencement of Works, 24 Dec 2003 Letter to BSC and DoP re Notice of Commencement of Commissioning of the Ore Processing Plant, 16 Feb 2006	Yes	The commencement of construction was notified to the Director-General and BSC on the 24 December 2003 and construction activities started on 12 January 2004. Notification of date of commencement of commissioning of the ore processing plant on or about 13 March 2006 was sent to the Director-General and BSC on 16 February 2006.
	(v) No mine construction activity is to occur until the relevant approvals under the Environmental Planning and Assessment Act 1979 have been obtained for the construction of the transmission line from Temora to the mine site and the mine access road upgrade. This condition does not require approval to be obtained under the Environmental Planning and Assessment Act 1979 in relation to any rail crossing before mine construction activities can commence.	Approval under Section 115(B) in relation to the Temora to Cowal 132KV Transmission Line, 3 Aug 1999 Bland Shire Council Decision Notification of Approval of Cowal Gold Project Access Road Upgrade, 21 Apr 1999	Yes	Approval under Part 5 of the EP&A Act of the Temora Transmission Line was granted to Great Southern Energy August 1999. Approval by the Bland Shire Council (BSC) and approval under Part 5 Approval of the EP&A Act was granted on 21 April 1999 for the upgrade of the access road to the CGP. <u>May 2008</u> The ETL was commissioned in January 2006 and is maintained and operated by Country Energy. An inspection of the route indicated compliance of the construction of the ETL with the MCoA for the project except for the vegetative screens that had not established due to the drought conditions. Replanting of tube stock is planned by Country Energy during 2008 when the weather conditions improve for plant establishment.
	If construction works have not commenced within two years of this development consent, the Applicant shall provide an annual report on the status of the project and any major changes to the environmental conditions of the site.	Letter from DIPNR re Application under Section 95B of the EP&A Act, 12 May 2004	Noted	Construction works for the CGP commenced in January 2004 and commissioning of the ore processing plant commenced in January 2006.
<b>1.3</b>	<b>Dispute Resolution</b>			
	In the event that the Applicant and the BSC or a Government agency, other than the Department of Urban Affairs and Planning, cannot agree on the specification or requirements applicable under this consent, the matter shall be referred by either party to the Director-General or if not resolved, to the Minister for Urban Affairs and Planning, whose determination of the disagreement shall be final and binding on the parties.		Noted	

<b>1.4</b>	<b>Security Deposits and Bonds</b>			
	Security deposits and bonds will be paid as required by DPI(Minerals) under mining lease approval conditions.	Security Certificate No. 5034063002, Citigroup	Yes	A Security deposit of \$250,000 was lodged in June 2003 as part of the ML approval and the remaining \$11,750,000, was lodged in March 2004.
<b>2.</b>	<b>MINE MANAGEMENT</b>			
<b>2.1</b>	<b>Mine Management Plan, Operations and Methods</b>			
	The Applicant shall submit to and have accepted by the DPI (Minerals), a Mining Operations Plan in accordance with current guidelines issued by DPI (Minerals), prior to commencement of mining. The Plan covers mining operations for a period of up to seven years. Changes in mining operations must be reflected in a revised Plan, which must be approved by DPI-Minerals prior to commencing the changed operations. The revised Plan addressing the changes in mining operations proposed in the modification application and supporting documentation submitted by Barrick Australia Limited, dated 30 January 2009, must include a geotechnical analysis and review of ongoing open pit development, the management of waste rock emplacements, and continued monitoring of the lake protection bund.	Mining Operations Plan – 2005 to June 2007, submitted March 2005 Letter from DMR re Mining Operations Plan – meets the Department's requirements, 18 Mar 2005  Mining Operations Plan – June 2007 to June 2009, submitted June 2007  Mining Operations Plan 2009-2010, submitted to DPI-Minerals, 31 Mar 2009  Letter from DPI Minerals re Approval of MOP, 3 Apr 2009	Yes	The Mining Operations Plan (MOP) June 2005 to June 2007 was submitted to DPI-Mineral Resources in March 2005 and approved.  <u>May 2008</u> The MOP for June 2007 to June 2009 was submitted and approved by DPI in June 2007.  <u>April 2009</u> The MOP for April 2009 to December 2010 was submitted to DPI-Minerals on 31 March 2009. Approval from DPI provided on 3 April 2009.
<b>2.2</b>	<b>Ore, Waste and Concentrate Production</b>			
	The Applicant shall not transport ore or other excavated materials not required for either construction or maintenance works from other mines or locations to the mine site without the written approval of the relevant councils.		Yes	No ore or excavated materials from other mines or locations are transported to the CGP site.
<b>2.3</b>	<b>Mine and Public safety</b>			
	The Applicant shall secure the mine site as described in section 2.10.5 of the EIS. The fence for the MLA boundary shall be designed to minimise the impact on water birds and aquatic species. (Refer also to condition 5.4(b) (ii)).		Yes	A 1.3m wire strand fence has been erected around the Mining Lease Area in accordance with the design requirements.
<b>3.</b>	<b>LAND AND SITE ENVIRONMENTAL MANAGEMENT</b>			
<b>3.1</b>	<b>Appointment of Environmental Officer</b>			
	(i) The Applicant shall employ an Environmental Officer to exclusively work for the Cowal gold mine and no other mine, whose qualifications are acceptable to the DPI(Minerals) who shall report to the Mine Manager. The Officer shall be employed throughout the life of the mine, and shall:  (a) be responsible for the preparation of the environmental management plans (refer condition 3.2)	Letters to DMR, EPA, NPWS, DLWC, BSC and CEMCC re Appointment of Garry Pearson as Environmental Officer, 31 Aug 2006	Yes	DIPNR, DMR, EPA, NPWS, DLWC and BSC were notified on August 2006 of Mr Garry Pearson's appointment to the position of Environmental Manager on the CGP site.  The duties and responsibilities outlined in the Job Description for the Environmental Officer address the requirements of MCoA 3.1

	(b) be responsible for considering and advising on matters specified in the conditions of this consent and compliance with such matters; (c) be responsible for receiving and responding to complaints in accordance with condition 10.2(a); (d) facilitate an induction and training program for all persons involved with construction activities, mining and remedial activities; (e) have the authority and independence to require reasonable steps to be taken to avoid or minimise significant environmental impacts which are not in accordance with this consent or the EIS and failing the effectiveness of such steps, to cease the activity causing the problem immediately if a significant impact on the environment is likely to occur.			
	(ii) The Applicant shall notify the Director-General, <b>DPI(Minerals), DECC, DWE, BSC</b> and the CEMCC (refer condition 8.7) of the name and contact details of the Environmental Officer upon appointment and any changes to that appointment.	Letters to DMR, EPA, NPWS, DLWC, BSC and CEMCC re Appointment of Garry Pearson as Environmental Officer, 31 Aug 2006	Yes	The authorities were advised of the appointment of Garry Pearson as Environmental Officer to the CGP, replacing David Blaxland, in August 2006.
<b>3.2</b>	<b>Environmental Management Plans</b>			
	The Applicant shall prepare the following environmental management plans:			The environmental management plans were prepared and approved by the relevant government authorities:
	Archaeology and cultural management plan (refer condition 3.3)	Refer to the relevant conditions re documentation verification/comment.	Yes	Heritage Management Plan
	Fauna management plan (refer condition 3.4)		Yes	Indigenous Archaeology & Cultural Management Plan
	Erosion and sediment control plan (refer condition 3.5(a))		Yes	Fauna Management Plan
	Soil stripping management plan (refer condition 3.5(b))		Yes	Erosion and Sediment Control Management Plan
	Landscape management plan (refer condition 3.8)		Yes	Soil Stripping Management Plan
	Bushfire management plan (refer condition 3.9)		Yes	Landscape Management Plan
	Land management plan (refer condition 3.11(i))		Yes	Bushfire Management Plan
	Compensatory wetland management plan (condition 3.11(v))		Yes	Land Management Plan
	Site water management plan (refer condition 4.1)		Yes	Compensatory Wetland Management Plan
	Cyanide management plan (refer condition 5.3(b))		Yes	Site Water Management Plan
	Hazardous waste and chemical management plan (refer condition 5.8)		Yes	Cyanide Management Plan
	Dust management plan (refer condition 6.1)		Yes	Hazardous Waste and Chemical Management Plan
	Blast management plan (refer condition 6.3)		Yes	Dust Management Plan
	Noise management plan (refer condition 6.4(b))		Yes	Noise Management Plan
	Traffic Noise Management Plan (refer condition 6.4(c))		Yes	Blast Management Plan
	The management plans are to be revised/updated at least every five years, or as otherwise directed by the Director-General, in	Letter from DoP re Revision/Update of Environmental Management	Noted	May 2008 There have been a number of amendments to the EMP's

	consultation with the relevant government authorities. They will reflect changing environmental requirements or changes in technology/operational practices. Changes shall be made and approved in the same manner as the initial environmental management plan. The plans shall also be made publicly available at BSC within two weeks of approval of the relevant government authority.	Plans, 18 June 2008		developed by Barrick and approved by the relevant authorities since the Director-General's approval of the Plans in 2003. To meet the requirement of MCoA 3.2, revision/update of the management plans approved in 2003, is due during 2008. <u>April 2009</u> The D-G has approved the extension of time for revision of the Environmental Management Plans.
<b>3.3</b>	<b>Heritage Assessment and Management</b>			
3.3	(a) The Applicant shall prior to commencement of construction works:  (i) prepare a Heritage Management Plan (HMP) to address non-indigenous cultural heritage issues. The HMP shall be prepared in consultation with Bland District Historical Society, BSC, and Lake landholders/residents, and to the satisfaction of the Director-General;	Heritage Management Plan Sept 2003  Letter from BSC re European Heritage Management Plan, 5 Sep 2003  Letter from DIPNR re Approval of the Indigenous Archaeology and Cultural Heritage Management Plan, 11 Nov 2003	Yes	The Heritage Management Plan was prepared by Barrick and approved by the Director General on 25 September 2003.  <u>April 2009</u> The D-G has approved the extension of time for revision of the Environmental Management Plans. The Heritage Management Plan will be reviewed and revised if necessary.
	(ii) prepare an Indigenous Archaeology and Cultural Management Plan (IACMP) to identify future salvage, excavation and monitoring of any archaeological sites within the DA area prior to and during development, and to address Aboriginal cultural heritage issues. The IACMP shall be prepared in consultation with NPWS, the Local Aboriginal Land Council, a consultant archaeologist, any other stakeholders identified by NPWS, and to the satisfaction of the Director-General; and	Indigenous Archaeology and Cultural Management Plan, Oct 2003  Letter from DIPNR re Indigenous Archaeology and Cultural Heritage Management Plan, 11 Nov 2003	Yes	The Indigenous Archaeology and Cultural Management Plan was prepared in consultation with the NPWS, Wiradjuri-Condobolin Cultural Heritage Company, and Colin Pardoe (consultant archaeologist) and approved in September 2003.
	(iii) retain a Cultural Heritage Officer approved by the West Wyalong Local Aboriginal Land Council who is to be available on site during construction earthworks.	Letter from Barrick – Letter of Appointment – Professional Services from Wiradjuri Condobolin Corporation, 6 Nov 2003	Yes	Barrick entered an agreement with the Wiradjuri Condobolin Corporation for the provision of cultural heritage officer(s) during construction earthworks.  The agreement was approved by the West Wyalong Aboriginal Land Council.  Dr Colin Pardoe, Consultant Archaeologist was and approved by the Director-General on 11 November 2003 and appointed by Barrick to oversee all archaeological surveys and works.  Cultural heritage officers continue to survey any new areas of land clearing associated with waste emplacement and stockpiles at the site.
	(b) The Applicant shall, prior to the commencement of construction works in a particular part of the DA area, submit to and have	Section 87 Permit 1361, 23 May 2002	Yes	Section 87 Permit 1361 applied to Lot 23 and 24 and Game Reserve – authorised archaeological works, but not

	<p>approved by the Director-General of NPWS, a Consent to Destroy application under Section 90 of the National Parks and Wildlife Act 1974 in relation to that particular part of the DA area for Aboriginal archaeological sites that have been identified to be damaged or destroyed as a result of the development prior to consent and/or by the IACMP.</p>	<p>Section 90 Consent 1467, 27 Nov 2002                  Section 87 Permit 1468, 27 Oct 2002                  Section 90 Consent 1680, 28 Jul 2003                  Section 87 Permit 1681, 28 Jul 2003                  Letter to Barrick re Certification of Clearance of Southern Waste Dump Area, 15 Sep 2008</p>		<p>destruction of aboriginal objects.                  Section 90 Consent 1467 applies to the whole mining lease area, plus the water pipeline route and borefield – authorises destruction of Aboriginal objects after the archaeological works required by Permit 1468 have been carried out and certified.                  Section 87 Permit 1468 applies to the whole mining lease area, plus the water pipeline route and borefield – authorises archaeological works but not destruction of aboriginal objects.                  Section 90 Consent 1680 and Section 87 Permit 1681 were granted in July 2003.                  Areas are surveyed by Dr Pardoe and WCC Aboriginal representatives, prior to any surface disturbance.                  April 2009                  A Letter of Certification for the Southern Waste Dump Area was issued on 15 September 2008. The associated clearance diagram was updated on 4 September 2008.</p>
<b>3.4</b>	<b>Flora and Fauna Assessment and Management</b>			
	<p>(a) The Applicant shall prior to commencement of construction prepare a fauna management plan to cover the mining lease area and monitoring of bird breeding areas as identified by the Applicant in consultation with DECC. The plan shall be prepared in consultation with DPI(Fisheries) and DECC, and be to the satisfaction of the Director-General. The plan shall include, but not be limited to:</p>	<p>Flora and Fauna Management Plan, Oct 2003                  Letter from DIPNR re Approval Flora and Fauna Management Plan, 30 Oct 2003                  Letter from DoP re Approval of the Amended Flora and Fauna Management Plan, 30 Oct 2008</p>	Yes	<p>The Flora and Fauna Management Plan was prepared by Barrick and approved by the Director General on 30 October 2003.                  April 2009                  Barrick submitted an amended Flora and Fauna Management Plan to DoP on 12 August 2008. DoP approved the amended plan on 30 October 2008.</p>

	<p>(i) methods for monitoring daily and seasonal fauna usage of tailings dams (eg. species, number, location, habits), and whether deaths or other effects or incidents are occurring. Usage of the tailings dams shall be reported to the DECC on a six monthly basis, unless otherwise directed by the Director-General;</p>	<p>Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Oct 2006 to March 2007, Donato Environmental Services, August 2007</p> <p>Letter to DECC re Report on Fauna Usage of Tailings Dams, 6 March 2008</p> <p>Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Oct 2007 to Mar 2008, Donato Environmental Services, Aug 2008</p> <p>Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Apr 2008 and Sep 2008, Donato Environmental Services, November 2008</p>	<p>Yes</p>	<p>Monitoring of the tailings storage facilities was implemented twice a day following placement of tailings in the STSF in May 2006. The monitoring is conducted by process plant staff plus informal regular inspections by the Environment staff.</p> <p>Training of Barrick personnel occurred for avifauna monitoring in accordance with the International Cyanide Code.</p> <p><u>April 2009</u></p> <p>The six-monthly Donato reports on seasonal wildlife use of the tailings facility was submitted to Barrick and DECC in November 2008 for the periods October 2007 to March 2008, and April 2008 to September 2008.</p> <p>Further training of Barrick personnel occurred in March 2009 for avifauna monitoring in accordance with the International Cyanide Code.</p>
	<p>(ii) development of a protocol for the reporting of any native fauna deaths or other incidents involving native fauna on the mining lease to the DECC, DPI(Minerals), CEMCC and in the case of fish, DPI (Fisheries). Native fauna deaths (except those attributable to physical trauma such as vehicle strike) must be reported as per this protocol within 24 hours (or next working day).The Applicant shall maintain a record of any native fauna deaths or other incidents and this record shall be included in the AEMR;</p>	<p>Letter from DoP re Fauna Death Reporting, 13 Mar 2008</p> <p>Notification forms to DECC/DPI (Minerals and CEMCC for May 2007 to April 2008</p> <p>Draft 2007 AEMR, May 2008</p> <p>Addendum to Flora and Fauna Management Plan Nov 2008</p> <p>Letter from DoP re Approval for Addendum to Flora and Fauna Management Plan, Nov 2008</p> <p>Letter from DECC re Fauna Deaths Status, 2 Feb 2009</p>	<p>Yes</p>	<p>Notification of any incidents involving native fauna submitted to DPI and DEC for each incident. The incidents involving fauna are reported in the AEMR.</p> <p><u>May 2008</u></p> <p>The procedure for quarterly reporting of fauna deaths to the relevant authorities was modified and approved by DoP on 13 March 2008.</p> <p>The record of fauna deaths and other incidents is reported in the Draft 2007 AEMR, and notification of the relevant agencies occurred on 94 occasions in accordance with the MCoA.</p> <p><u>April 2009</u></p> <p>The Modification to the MCoA granted 13 March 2008, related to changes to the reporting obligations in respect of fauna deaths at the Cowal Gold Project site. The Flora and Fauna Management Plan amended to reflect the approved Modification and approved by DoP in November 2008. DECC responded to the amendments related to reporting in the Flora and Fauna Management Plan. Fauna deaths now reported in the AEMR unless cyanide us suspected as the causal agent.</p>

	<p>(iii) provision for fauna autopsy facilities to enable the cause of any deaths to be quickly determined. The protocol required in sub clause (ii) above shall also detail collection and autopsy of fauna. This shall include but not be limited to collection and recording procedures, autopsy procedures and laboratory tests.</p>	<p>Flora and Fauna Management Plan Section 6.3  <a href="#">Letters to DPI/DECC/DoP re Native Fauna Incident Notifications, July 2008 to February 2009</a>  <a href="#">West Wyalong Veterinary Clinic Reports 2008 – 2009</a>  <a href="#">Addendum to Flora and Fauna Management Plan Nov 2008</a></p>	<p>Yes</p>	<p>Autopsy reports prepared by the West Wyalong Veterinary Clinic were sighted for the June 2006 to April 2007 period.  <a href="#">May 2008</a>  Autopsy reports prepared by the West Wyalong Veterinary Clinic were sighted for the June 2007 to April 2008 period.  <a href="#">April 2009</a>  Autopsy reports prepared by the West Wyalong Veterinary Clinic were sighted for the May 2008 to March 2009 period.</p>
	<p>(iv) provision of contingency measures for reducing cyanide levels in the tailings dams in the event it is established that fauna deaths are occurring from cyanide in tailings dam water (refer also condition 5.3(c));</p>	<p>Flora and Fauna Management Plan Section 8  <a href="#">Notification forms to DECC/DPI (Minerals and CEMCC for May 2007 to April 2008)</a>  <a href="#">Draft 2007 AEMR, May 2008</a>  <a href="#">Notification forms to DECC/DPI (Minerals and CEMCC for May 2008 to April 2009)</a>  <a href="#">Draft 2008 AEMR, April 2009</a></p>	<p>Noted</p>	<p>No fauna deaths related to cyanide have been recorded in the tailings storage on the CGP site.  <a href="#">May 2008</a>  No fauna deaths were attributed to in the tailings storage areas on the CGP site for the period June 2007 to April 2008.  <a href="#">April 2009</a>  No fauna deaths attributed to cyanide at the tailings storage areas on the CGP site for the period May 2008 and March 2009.</p>

<p>(v) development of effective mechanisms to keep fauna and avifauna away from the tailings storages, which shall include, but not be limited to:</p> <ul style="list-style-type: none"> <li>- minimising area of open water in the tailings dams;</li> <li>- fencing to prevent both medium and large fauna, terrestrial and amphibians, from entering the area. Mesh will have holes no greater than 5cm in diameter;</li> <li>- making the area non conducive to the establishment of wildlife habitats, as far as possible;</li> <li>- use of netting where practical; and</li> <li>- use of current best practice for avifauna deterrence;</li> </ul>	<p>Report on the Interaction of Fauna with the Tailings Storage Facilities - Cowal Gold Project, Donato Environmental Services, Jun 2004.</p> <p>Flora and Fauna Management Plan Section 3</p> <p>Implementation Plan to Protect Fauna from Interactions with the Tailings Storage Facilities, Feb 2005</p> <p>Letter to DEC re Implementation Plan to Protect Fauna from Interactions with the Tailings Storage Facilities, Feb 2005</p> <p>Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Oct 2006 to March 2007, Donato Environmental Services, August 2007</p> <p>Seasonal Wildlife Use Patterns of the Cowal Gold Mine Tailings Facility April to September 2008, Donato Environmental Services, Nov 2008</p>	<p>Yes</p>	<p>The fauna proof fence has been erected around the tailings storage facilities.</p> <p>Deterrent devices were installed at the STSF with radar activated audio units on two sides of the storage facility, sonic gas guns and other passive devices erected to scare away birds approaching or landing on the tailings waters, in early 2006 in accordance with the approaches outlined in the Implementation Plan submitted to the DEC in 2005.</p> <p>The effectiveness of the audio units is questionable as many of the larger species that have landed on the storage facility waters do not react to the warning units.</p> <p><u>May 2008</u></p> <p>A wombat was captured in the tailings emplacement wall area in 2008. A manned gate into the tailings emplacement area was introduced to ensure that fauna (e.g. emus, wombats, kangaroos etc) do not enter the tailings emplacement area when vehicle access is open from the site to the tailings compounds.</p> <p><u>April 2009</u></p> <p>The TSF areas are security fenced with entrance gates to the facilities closed at all times except during entrance of vehicles to the wall of the tailings facilities for monitoring or maintenance.</p>
<p>(vi) development of plans for the rescue and rehabilitation of wildlife that may become bogged/sick/trapped in the tailings dams or elsewhere within the mining lease area;</p>	<p>Flora and Fauna Management Plan Section 5</p>	<p>Yes</p>	<p>Rescue of two birds that became bogged in the tailings was achieved using a pole and line. A small run about with outboard motor is also available for use in areas where water depth allows access.</p> <p><u>May 2008</u></p> <p>A small number of birds were removed from the tailings emplacement facilities using a pole and line during 2008. A radio controlled model boat has been used to scare birds when they had settled on the water areas of the tailings emplacements.</p> <p><u>April 2009</u></p> <p>Rescue of small numbers of fauna has occurred from the tailings facilities between May 2008 and March 2009. The water areas of the tailings facilities have been kept to a minimum and the number of birds attracted to the tailings has been small.</p>
<p>(vii) methods to conserve and enhance wildlife values around Lake Cowal, within the mine lease area, including protection and enhancement of existing retained habitats;</p>	<p>Flora and Fauna Management Plan Section 9</p>	<p>Yes</p>	<p>See section 3.1 above on the Flora and Fauna and the Land Management Plans.</p>



<p>(viii) provision to continue fauna and flora, fish, and aquatic invertebrate monitoring of the Lake Cowal region as documented in the EIS and SIS including investigation of fauna deaths off the Mine Site if requested by the Director-General where it is considered the deaths are attributable to activities on the Mine Site;</p>	<p>Surface, Groundwater, Meteorological and Biological Monitoring Program</p>	<p>Noted</p>	<p>No biological monitoring was conducted as Lake Cowal water has not reached the trigger level of 204.5 AHD. Bird monitoring is conducted 3 times a year (August, October and January). <u>May 2008</u> No biological monitoring was conducted between June 2007 and May 2008, as there was no standing water present in Lake Cowal. <u>April 2009</u> No biological monitoring was conducted between June 2007 and May 2008, as there was no standing water above 204.5m AHD was present in Lake Cowal.</p>
<p>(ix) details to relocate any threatened species and/or its habitat away from disturbed areas that are created by mine operations. This will include placement and maintenance of suitable types and numbers of artificial roosting boxes for bats such as the Greater Long-eared Bat and other animals (eg birds/possums) in undisturbed areas of the mine site;</p>	<p>Flora and Fauna Management Plan Section 10</p>	<p>Yes</p>	<p>A number of Grey-crowned Babblers, a threatened species under the NSW <i>Threatened Species Conservation Act</i>, have been identified on the mine lease area. In accordance with the Threatened Species Management Protocol (TSMP) the Threatened Species Management Strategy (TSMS) of the TSMP was initiated where required. Successful relocation of active babbler nests occurred twice during the June 2006 to April 2007 period, in area where vegetation clearance was required.</p>
<p>(x) details of monitoring the mine's impacts particularly on birdlife in bird breeding areas identified by the Applicant in consultation with DECC, threatened fauna and flora, and fish and aquatic invertebrates around Lake Cowal, and outline contingency measures should impacts be identified as occurring.</p>	<p>Flora and Fauna Management Plan Section 11 <u>Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Oct 2006 to March 2007, Donato Environmental Services, August 2007</u> <u>Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Oct 2007 to Mar 2008, Donato Environmental Services, Aug 2008</u> <u>Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Apr 2008 and Sep 2008, Donato Environmental Services, November 2008</u></p>	<p>Yes</p>	<p>Monitoring of bird breeding areas has been conducted around the mine site and Lake Cowal area. No monitoring of fish or aquatic invertebrates in Lake Cowal has occurred because of lack of water in the lake. <u>May 2008</u> Donato prepared a report on the seasonal wildlife use of the CGP area, particularly the tailings emplacement facilities. <u>April 2009</u> Donato reports on the seasonal wildlife use of the CGP area, particularly the tailings emplacement facilities were conducted for the October 2007 to March 2008, April to September 2008 and October 2008 to March 2009 periods.</p>

	<p>(b) The Applicant shall also implement a Threatened Species Management Protocol as outlined in Appendix 9 of the Department's primary submission to the Commission of Inquiry, which will include provisions for targeted searches prior to construction and proposed mitigation measures where threatened flora or fauna species are found.</p>	<p>Threatened Species Management Protocol Appendix A Flora and Fauna Management Plan October 2003</p> <p>Letter from DoP re Inland Greybox Woodland, 10 August 2007</p> <p>Letter from DECC re Inland Greybox Woodland, 27 August 2007</p> <p>Letter from DECC re Myall Woodland, 29 August 2007</p> <p>Letter from DECC re Aquatic Ecological Community, 21 Sep 2007</p> <p>Letter from DoP re Myall Woodland, 24 September 2007</p> <p>Letter from DoP re Aquatic Ecological Community, 12 Oct 2007</p>	<p>Yes</p>	<p>A Threatened Species Management Protocol was prepared by Barrick and approved by the Director General on 30 October 2003.</p> <p>Active Grey-crowned Babblers nest sites that were identified have been relocated in accordance with the Threatened Species Management Protocol (TSMP).</p> <p><u>May 2008</u></p> <p>DECC, DPI (Minerals) and DoP accepted the implementation of the Vegetation Clearance Protocols related to the Inland Grey Box Woodland, dated 9 August 2007, and Myall Woodland dated 20 August 2007.</p> <p>DECC, DPI (Minerals) and DoP accepted the Threatened Species Management Strategy for the Aquatic Ecological Community in the natural drainage system of the Lowland Catchment of the Lachlan River in September 2007.</p>
<p><b>3.5</b></p>	<p><b><i>Prevention of Soil Erosion</i></b></p>			
	<p>The Applicant shall prepare prior to commencement of construction works, in consultation with DECC and to the satisfaction of the D-G:</p> <p>(a) an erosion and sediment control management plan for the DA area which meets the requirements of DECC. The plan shall include, but not be limited to:</p>	<p>Erosion and Sediment Control Management Plan Sep 2003</p> <p>Erosion and Sediment Control Management Plan Sep 2003</p> <p>Letter to DEC re Amendments to Erosion and Sediment Control Plan and Site Water Management Plan, 28 Oct 2004</p> <p>Letter from DEC re Erosion and Sediment Control Plan and Site Water Management Plan Amendments, 1 Dec 2004</p> <p>Letter to DIPNR re Amendments to SWMP &amp; ESCMP, 10 Dec 2004</p>	<p>Yes</p>	<p>The Erosion and Sediment Control Management Plan for the DA area was prepared and approved by the Director General on 1 October 2003.</p> <p>Specific Erosion and Sediment Control Management Plans were prepared for each stage of the construction works and submitted to DMR, EPA and DLWC for approval prior to commencement of that stage of the works.</p> <p><u>May 2003</u></p> <p>The Erosion and Sediment Control Plan is due for review during 2008 to meet the requirements of MCoA 3.2.</p> <p><u>April 2009</u></p> <p>The D-G has approved the extension of time for revision of the Environmental Management Plans. The Erosion and Sediment Control Management Plan will be reviewed and revised if necessary.</p>

<p>(i) details of temporary and permanent sediment and erosion control systems to be used during both mine construction and operation, including for earthworks associated with landscaping;</p> <p>(ii) details of salinity management; and</p> <p>(iii) a program for reporting on the effectiveness of the sediment and erosion control systems and performance against objectives contained in the approved erosion and sediment control management plan, and EIS;</p>	<p>Erosion and Sediment Control Management Plan Sections 3, 4 &amp; 5</p> <p>Erosion and Sediment Control Management Plan Section 6</p> <p>Erosion and Sediment Control Management Plan Section 11</p>	<p>Yes</p>	<p>Regular inspections of the mining lease boundary fences and sediment controls are conducted by Security personnel on their daily inspections of the mine lease boundary and also regularly inspected by Environment Personnel, particularly after rainfall events.</p> <p><u>May 2008</u></p> <p>Inspection of erosion and sediment controls has been conducted. The lake protection bund is showing significant erosion due to reactive soils in the bund wall construction. Review of the erosion control strategies and development of appropriate erosion control measures need to be addressed.</p> <p><u>April 2009</u></p> <p>Inspection of the lake protection bund in relation to the erosion of reactive soils in the bund wall as noted in the last audit (May 2008) showed that significant works to the access track had been undertaken to repair eroded areas, but there was still erosion exhibited on the slopes of the permanent bund walls.</p>
<p>(b) a soil stripping management plan for the DA area to the requirements of DPI(Minerals) and DECC which shall include, but not be limited to:</p>	<p>Soil Stripping Management Plan Aug 2003</p> <p>Erosion and Sediment Control Management Plan Section 7.1</p>	<p>Yes</p>	<p><u>May 2008</u></p> <p>The requirements of the Soil Stripping Management Plan continue to be used for new areas of clearance (e.g. southern waste emplacement area).</p> <p><u>April 2009</u></p> <p>The D-G has approved the extension of time for revision of the Environmental Management Plans. The Soil Stripping Management Plan will be reviewed and revised if necessary.</p>
<p>(i) details of the management of soil stockpiles, soil stripping techniques and scheduling; and</p>	<p>Erosion and Sediment Control Management Plan Section 7</p> <p>Erosion and Sediment Control Management Plan Section 11</p>	<p>Yes</p>	<p>Infill testing of site soils is carried out and recorded.</p> <p><u>May 2008</u></p> <p>The topsoil stockpile database continues to be maintained for all topsoil clearance activities on site.</p> <p><u>April 2009</u></p> <p>The topsoil stockpile database continues to be maintained for all topsoil clearance activities on site and the location and volume of topsoil present on each of the stockpiles.</p>

	(ii) a program for reporting on the effectiveness of the soil stripping methods and performance against objectives contained in the soil stripping management plan, and EIS.	Infill Sampling and Results CGP Environment File Jun 2005 2005 AEMR, submitted 23 Mar 2006 Draft 2006 AEMR Apr 2007 Draft 2007 AEMR, Apr 2008 Draft 2008 AEMR, Mar 2009	Yes	The soil stockpiles are being managed in accordance with the Soil Stripping Management Plan and rehabilitation strategies. <u>May 2008</u> The topsoil stockpile database is updated as new stockpile information is obtained, with a location map developed for the site. The segregation of topsoil and infill material continues. <u>April 2009</u> The topsoil stockpile database is continually updated as new stockpile information is obtained. The segregation of topsoil and infill material occurs as the material is stripped.
<b>3.6</b>	<b>Site Rehabilitation Management</b>			
	The Applicant shall carry out rehabilitation of all mine areas in accordance with the requirements of the Mining Operations Plan of the DPI (Minerals) (refer condition 2.1), and EIS, particularly Section 5.	EIS Section 5 Mining Operations Plan 2005-2007 Section 4, March 2005 Mining Operations Plan 2009-2010, Section 4, 31 March 2009 Letter from DPI-Minerals re Approval of MOP, 3 April 2009	Noted	<u>May 2008</u> Rehabilitation planned is outlined in the MOP and reported in the AEMR. The drought conditions have hampered survival of the planted tube stock and seeded area establishment has been low. Replanting and seeding is planned to occur when the weather conditions are more conducive to vegetative survival. <u>April 2009</u> The MOP ( 2009-2010)was approved by DPI on 3 April 2009 and includes the proposed rehabilitation program for the 2 years.
<b>3.7</b>	<b>Visual Amenity and Landscaping</b>			
	The Applicant shall prior to commencement of construction works prepare and submit for the approval of BSC a detailed landscape management plan prepared by a suitably qualified person. The plan shall include, but not be limited to:	Landscape Management Plan, 2003 Letter from BSC/DMR re Land scape Management Plan,1 Sep 03	Yes	A Landscape Management Plan was prepared and approved by DMR and BSC in August 2003. <u>April 2009</u> The D-G has approved the extension of time for revision of the Environmental Management Plans. The Landscape Management Plan will be reviewed and revised if necessary.
	(i) provision for the establishment of trees and shrubs on areas identified as necessary by BSC for the maintenance of satisfactory visual amenity from outside the mine site. Such landscaping shall have regard for reducing impacts of night lighting on wildlife and nearby residences;	Landscape Management Plan Section 4	Yes	Earth mounds were established and planted with tube stock in accordance with the Landscape Management Plan. The tube stock planted on the mounds did not establish due to the dry conditions and the mounds have been subsequently been seeded with grass.  Trees along the boundary and around the mounds are approximately 3 years old and up to 1 metre high and will establish a visual barrier to the mine development when they reach >3m height.

				<p><u>May 2008</u></p> <p>The trees along the boundary of the site provide considerable visual screening of the mine lease activities and the topsoil stockpiles on the northern side of the lease also provide a visual barrier to the site activities and structures from the public roads and residences.</p> <p><u>April 2009</u></p> <p>The visual impact of the site activities and structures is low, with the form of the waste dumps and tailings facilities not imposing on the general visual aspects of the area at the present height and areal extent within the mine lease.</p>
	(ii) details of the visual appearance of all buildings, structures, facilities or works (including paint colours and specifications). Buildings and structures shall be designed and constructed so as to blend as far as possible with the surrounding landscape;	Landscape Management Plan Section 5	Yes	All buildings and the process plant structures on site have been painted 'sand/straw' colour in accordance with the specifications in the Plan and 'blend' into the natural colour of the landscape.
	(iii) details, specifications and staged work programs to be undertaken, maintenance of all landscape works and maintenance of building materials and cladding.	Landscape Management Plan Section 5	Noted	
<b>3.8</b>	<b>Bushfire and other Fire Controls</b>			
	The Applicant shall: (a) prior to commencement of construction works prepare and submit for the approval of BSC, a bushfire management plan as outlined in section 6.4.4 of the EIS; and	Bushfire Management Plan, Aug 2003  Letter from BSC re Draft Bushfire Management Plan, 5 Aug 2003	Yes	A Bushfire Management Plan was prepared and the plan approved by DMR and BSC on 24 July 2003.  <u>May 2008</u> The Bushfire Management Plan is due for review during 2008 to address the requirements of MCoA 3.2.  <u>April 2009</u> The D-G has approved the extension of time for revision of the Environmental Management Plans. The Bushfire Management Plan will be reviewed and revised if necessary.
	(b) provide adequate fire protection works on-site. This shall include one (1) emergency fire fighting unit on site. (Refer also condition 5.4(a)(i)).	MOU – Barrick and NSW Fire Service 20 Feb 2007	Yes	The Memorandum of Understanding between the NSW Rural Fire Service and Barrick was signed off on 20 February 2007.  <u>May 2008</u> Two Category 7 fire tender and two emergency fire fighting units of approximately 1000 L each are now housed in a Emergency Response Station on the CGP site near the main maintenance workshop.  <u>April 2009</u> The two fire tenders and other fire fighting and emergency

				response units, and the Emergency Response personnel are housed in a Rescue Station on the CGP site.
<b>3.9</b>	<b>Other Land Covenants and Agreements</b>			
	<p>(a) <b>Relocation of Game Reserve</b>                      The Applicant shall prior to the commencement of construction works relocate the existing game reserve in consultation with BSC, DECC, DPI (Fisheries), and lake residents and users as identified by BSC. Where public access arrangements are to be provided they shall be completed no later than the time of the reserve's relocation, to the requirements of BSC and DECC. The total size of the new reserve(s) shall be no smaller than the existing reserve.</p>		Yes	<p>Barrick relocated a reserve external to the mining lease for "public access" and "environmental protection" on 7 November 2003. The reserve maintains public access to the lake and has an area of 123.4ha.</p> <p>The "Game Reserve" status of the Crown land within ML 1535 was revoked on 19 December 2003.</p>
	<p>(b) <b>Relocation of Traveling Stock Route</b>                      The Applicant shall, prior to the commencement of construction works on the Traveling Stock Route (TSR), relocate the TSR in accordance with the EIS and the requirements of BSC, and the Condobolin Rural Lands Protection Board, and should include appropriate fencing and stock watering facilities.</p>	Letter from BDW re TSR 7 Apr 2004 Part 3A Permit No. 703A01055 under the Rivers and Foreshores Improvement Act 1948	Yes	<p>Barrick obtained the requirements of BSC, DIPNR and the Condobolin Rural Lands Protection Board for the relocation of the TSR.</p> <p>The new road and TSR works were completed in the 1<sup>st</sup> quarter 2004, and Barrick transferred the land for the new TSR to the Crown as Lot 100 DP 1059150.</p>
	<p>(c) <b>The Applicant is to ensure that all applications for road closures are finalised prior to the commencement of construction works on the land comprising the existing public roads that are to be closed. This will include the relocation of the public roads in use prior to commencement of construction works on the land comprising the existing public roads that are to be closed.</b></p>	Letter to BSC from Barrick re Closure of Council Roads, undated. Orange Office - Notification of Closing of a Road, NSW Government Gazette, 16 April 2004	Yes	<p>Barrick lodged the road closure application with the Department of Lands for Road 1 (a public road within TSR17085 parallel to the western shore of Lake Cowal) and Road 2 (an unformed public road adjacent to the northern boundary of Portion 44) and the road closures were gazetted in April 2004.</p>
<b>3.10</b>	<b>Land Management</b>			
	<p>The Applicant shall:</p> <p>(A) (i) prior to commencement of construction works prepare a Land Management Plan for all its land holdings to provide for proper land management in consultation with DECC, DWE, DPI(Agriculture), and BSC, and to the satisfaction of the Director-General . The plan shall be consistent with the fauna management plan (condition 3.4) and shall include, but not be limited to:</p> <ul style="list-style-type: none"> <li>• pastures and remnant vegetation management;</li> <li>• control of vermin and noxious weeds as required by the Rural Lands Protection Authority, the Prickly Pear Authority and other relevant authorities;</li> <li>• integration of the latest versions of the Jemalong and the Lake Cowal Land and Water Management Plan; and</li> <li>• feral animal control.</li> </ul>	<p>Land Management Plan Oct 2003</p> <p>Letter from DMR re Draft Land Management Plan 10 Oct/03</p> <p>Letter from BSC re Draft Land Management Plan, 24 Oct 2003</p> <p>Letter from NSW Agriculture re Weed Management Plan, 17 Oct 2003</p> <p>Land Management Plan Sections 4 and 5</p> <p>Land Management Plan Sections 6 and 7</p>	Yes	<p>The Land Management Plan was prepared by Barrick and approved by the Director General in October 2003.</p> <p><u>May 2008</u></p> <p>The Land Management Plan is due for review during 2008 to address the requirement of MCoA 3.2.</p> <p><u>April 2009</u></p> <p>The D-G has approved the extension of time for revision of the Environmental Management Plans. The Land Management Plan will be reviewed and revised if necessary.</p>

<p>(ii) prior to commencement of construction works prepare a Compensatory Wetland Management Plan in consultation with DECC, DPI(Fisheries), Lake Cowal Landowners Association, and Lake Cowal Environmental Trust, and to the satisfaction of the Director-General . The plan shall detail compensation measures for the loss of 120 hectares of wetland, through the enhancement of at least the equivalent area of existing wetland within the mine lease area during operation and following closure of the mine. The plan shall include, but not be limited to:</p> <p>(a) a definition of wetland which shall be all land up to the high water mark of Lake Cowal recognising that river red gum habitat is below high water mark;</p> <p>(b) measures to manage the enhanced wetlands without adversely impacting adjoining private properties; and</p> <p>(c) measures to improve habitats for wildlife including waterbirds, fish, aquatic organisms etc, in wetlands covered by the plan.</p>	<p>Compensatory Wetland Management Plan Oct 2003</p> <p>Compensatory Wetland Management Plan Section 4</p> <p>Compensatory Wetland Management Plan Section 7</p> <p>Compensatory Wetland Management Plan Section 6</p> <p>Compensatory Wetland Monitoring Report, November 2007</p> <p>Compensatory Wetland Regeneration Monitoring Results Report, DnA Environmental, Dec 2008.</p>	<p>Yes</p>	<p>A Compensatory Wetland Management Plan was submitted and approved by the Director General on 25 September 2003.</p> <p><u>May 2008</u></p> <p>Monitoring of the survey sites identified in the Compensatory Wetland Management Plan was carried out in November 2007. The Monitoring Report was sighted during the audit and monitoring site RW1 was visited.</p> <p>Monitoring of compensatory wetland areas on Lake Cowal within the mining lease that are not grazed, were reported to show higher regeneration rates and groundcover than the grazed sites off the mining lease.</p> <p>The Compensatory Wetland Management Plan is due for review and if required revision to address the requirements of MCoA 3.2.</p> <p><u>April 2009</u></p> <p>The Compensatory Wetland Regeneration Monitoring Results Report (Dec 2008) concluded there was significantly higher recruitment of native species in the Compensatory wetland areas.</p> <p>The Compensatory Wetland Management Plan is to be reviewed and revised if necessary.</p>
<p>(B) minimise the removal of trees and other vegetation from the mine site and restrict any clearance to the areas occupied by the mine activity, buildings and paved surfaces, and those areas necessary for fire control in accordance with BSC's requirements, and have regard to the draft Mid-Lachlan Regional Vegetation Management Plan (or its final version);</p>	<p>Flora and Fauna Management Plan Section 9.7</p> <p>Cowal Gold Project: Vegetation Clearance Protocol Reports, Sep 2006</p> <p>Cowal Gold Project: Vegetation Clearance Protocol Reports, Sep 2006 to Mar 2007</p> <p>Cowal Gold Project: Vegetation Clearance Protocol Reports, Mar 2007 to Feb 2008</p>	<p>Yes</p>	<p>The Vegetation Clearance Protocol was triggered and the Vegetation Clearance Procedure instigated in 30 areas for the project between January 2005 and June 2006. Detailed reports on each of these areas are contained in, <i>Cowal Gold Project: Vegetation Clearance Protocol Reports</i>, Barrick, September 2005.</p> <p>Further Vegetation Clearance Reports have been completed for the D9 contained water storage dam (December 2006), southern waste emplacement (March 2007), and VCP have been triggered for the new magazine area, old magazine area, northern waste emplacement and soil stockpile area in early 2007 and the reports are yet to be completed.</p>
<p>(C) not locate topsoil stockpiles within any area of Wilga Woodland in the DA area as identified in figure 3-13 of the EIS;</p>		<p>Yes</p>	<p>Topsoil stockpiles have not been located on any Wilga Woodland areas.</p>
<p>(D) not disturb any area of Belah Woodland in the DA area as identified in figure 3-13 of the EIS.</p>		<p>Yes</p>	<p>Belah Woodland areas within the DA have not been disturbed.</p>
<p>(E) develop a strategy for the long term land use of the DA area on decommissioning of the mine site. The strategy shall include, but not be limited to: appropriate land uses within the DA area, which may include areas for conservation, agriculture or</p>	<p>Land Management Plan Section 9.2</p> <p>Land Management Section 9</p>	<p>Noted</p>	<p>The strategy for long term land use and closure plan for the mine is to be developed for submission to the relevant agencies in Year 7 of the mining operations or five years</p>

	recreation, long term management of the area, environmental impacts of any uses and maintenance of necessary drainage characteristics and other features provided on the site. The strategy for long term land use of the DA area shall be submitted by Year 7 of mining operations or five years before mine closure, whichever is the sooner, in consultation with <b>DWE, DECC</b> , BSC, CEMCC, and to the satisfaction of the Director-General.			before mine closure, in accordance with this condition.
<b>4.</b>	<b>WATER MANAGEMENT</b>			
<b>4.1</b> <b>/4.2</b>	<b>Surface Water Management &amp; Ground Water Management</b>			
	The Applicant shall: (a) prior to the commencement of construction works shall prepare a site water management plan in consultation with <b>DWE</b> and <b>DECC</b> , and to the satisfaction of the Director-General, which shall include, but not be limited to, the following matters:	Site Water Management Plan Oct 2003 Revised Site Water Management Plan, Dec 2006	Yes	A Site Water Management Plan was prepared, approved by the Director-General in October 2003. Amendments to the Site Water Management Plan were approved by DoP in December 2006. <b>May 2008</b> The Site Water Management Plan is due for review during 2008 to address the requirement of MCoA 3.2. <b>April 2009</b> The D-G has approved the extension of time for revision of the Environmental Management Plans. The Site Water Management Plan will be reviewed and revised if necessary.





	<p>(i) management of the quality and quantity of surface and ground water within and around the mine site, including water in the up catchment diversion system, internal catchment drainage system, dewatering bores, Bland Creek Palaeochannel borefield and water supply pipeline from the borefield, which shall include preparation of monitoring programs as provided by condition 8.2.;</p>	<p>Site Water Management Plan Section 4                  Surface, Groundwater, Meteorological and Biological Monitoring Program                  Draft 2006 AEMR, Apr 2007                  Surface, Groundwater, Meteorological and Biological Monitoring Program                  Draft 2007 AEMR, May 2008                  Review of Cowal Gold Mine Operations Monitoring Program, Environmetrics Australia, June 2008                  Draft AEMR 2008, March 2009</p>	<p>Yes</p>	<p>The quality and quantity of surface and groundwater in and around the mine has been monitored for the up catchment diversion system, internal catchment drainage system, dewatering bores, Bland Creek Palaeochannel borefield and water supply pipeline, in accordance with the Surface, Groundwater, Meteorological and Biological Monitoring Program and the results reported in the Quarterly Reports and the 2006 AEMR.</p> <p><u>May 2008</u>                  The Surface, Groundwater, Meteorological and Biological Monitoring Program was being reviewed by Prof Fox (as a recommendation of the IMP), at the time of this audit.</p> <p>Surface, Groundwater, Meteorological and Biological Monitoring Program results for 2007 are reported in the Quarterly Reports and the Draft 2007 AEMR (Appendix B).</p> <p><u>April 2009</u>                  Surface, Groundwater, Meteorological and Biological Monitoring Program results for 2008 are reported in the Quarterly Reports and the Draft 2008 AEMR.</p>
	<p>(ii) measures to prevent the quality of water in Lake Cowal or any surface waters being degraded below the relevant ANZECC water quality classification prior to construction due to the construction and/ or operation of the mine;</p>	<p>Site Water Management Plan Section 5</p>	<p>Yes</p>	<p>No water was present in Lake Cowal and no discharge of water from the mine site occurred during June 2006 and April 2007.</p> <p><u>May 2008</u>                  No water was present in Lake Cowal and no discharge of water from the mine site occurred to the lake between June 2007 and May 2008.</p> <p><u>April 2009</u>                  No water was present in Lake Cowal and no discharge of water from the mine site occurred to the lake between May 2008 and March 2009.</p>
	<p>(iii) identification of any possible adverse effects on water supply sources of surrounding land holders, and land holders near the Bland Creek Palaeochannel Borefield as a result of the mining operations, and implementation of mitigation measures as necessary;</p>	<p>Site Water Management Plan Section 6</p>	<p>Yes</p>	<p>Monitoring of groundwater bores around Lake Cowal and in the vicinity of the Borefield was conducted to provide background and ongoing groundwater monitoring data.</p> <p>Meetings were held with the agencies and local landowners re reduction in water and pumping from the Palaeochannel bores. Barrick reduced water extraction from the borefield by securing additional water supply from the High Security Lachlan River Regulated Source Water at the end of 2006.</p> <p>Effects of the mine operations on groundwater source and discussions with the West Trigilana Group occurred in 2006 and a strategy was agreed with the DNR.</p>

			<p><u>May 2008</u></p> <p>Discussions continue with the agencies and landholders re water usage from the borefield and implementation of the strategies for water management.</p> <p><u>April 2009</u></p> <p>Discussions are continuing with the agencies and landholders re water usage from the borefield and the strategies agreed in 2007 implemented for water management and usage.</p>
(iv)	identification of changes in flood regime on productive agricultural land in Nerang Cowal as a result of the mine perimeter bund intruding into Lake Cowal, and provision of appropriate compensation measures for affected landholders based on inundation of productive land caused by the changed flood regime;	Site Water Management plan Section 7	<p>Yes</p> <p>Lake Cowal was dry during the construction phase of the project and the first 12 months of the operation of the mine and plant, so no assessment of changes to the flood regime was possible.</p> <p><u>May 2008</u></p> <p>Lake Cowal was dry between June 2008 and March 2009 so no assessment of the flood regime was possible.</p> <p><u>April 2009</u></p> <p>Lake Cowal has remained dry between May 2008 and March 2009 so no assessment of changes to the flood regime was possible.</p>
(v)	construction and operation of water storages D1 and D4 as first flush systems with initial captured run-off waters from the outer batters of northern and southern emplacement dumps reporting to water storage D6;	Preliminary Earthworks for Mine Development (Isolation Bunds, Northern Tailings Storage Facility, Tailings Service Corridor), URS, 23 Apr 2004  Contained Water Storage Facilities, URS 10 Jun 2004	<p>Yes</p> <p>Construction of the D1 and D4 contained water storages was completed by January 2005.</p> <p>Contained water storage D9 was constructed in 1<sup>st</sup> quarter 2007 for the storage of approximately 800ML of clean water from the borefield.</p> <p><u>May 2008</u></p> <p>The D9 water storage pond was completed on 28 May 2007 and has been used for the storage of augmented water from the Lachlan River allocation.</p> <p><u>April 2009</u></p> <p>D9 water storage was approximately 50% full at the time of the audit and is being used for the storage of augmented water from the Access Licence allocations from the Lachlan River.</p>
(vi)	measures to manage and dispose of water that may be captured behind the temporary perimeter bund during construction of that bund;	Site Water Management Plan Section 9	<p>Yes</p> <p>No significant water was collected in the temporary perimeter bund during the construction period or the first 12 months of operation of the process plant. No disposal of water was therefore required from the bund.</p> <p><u>May 2008</u></p> <p>Water collected in the temporary perimeter bund between</p>

			<p>June 2007 and May 2008 was runoff from the Lake protection bund. No disposal of water occurred from the temporary perimeter bund during this period.</p> <p><u>April 2009</u></p> <p>Runoff water from the Lake protection bund collected in the temporary perimeter bund between May 2008 and March 2009. The water encouraged vegetative growth within the bunded area that has controlled erosion of the bund walls and floor. No disposal of water occurred from the temporary perimeter bund during this period.</p>
(vii)	integration of the latest versions of the Jemalong Land and Water Management Plan and the Lake Cowal Land and Water Management Plan;	Site Water Management Plan Section 10	<p>Yes</p> <p>The Site Water Management Plan has considered the requirements of the Jemalong Land and Water Management Plan and the Lake Cowal Land and Water Management Plan in Section 10 of the project plan.</p>
(viii)	measures to evaluate water quality data obtained from monitoring as required by condition 8.2(a)(iii) against records of baseline monitoring undertaken prior to development consent; and	Surface, Groundwater, Meteorological and Biological Monitoring Program, Section 4.2 and 5.2	<p>Yes</p> <p>Monitoring of groundwater, dust and meteorological conditions has been conducted to continue collection of baseline data. Surface water monitoring of Lake Cowal will be implemented when the lake receives water inflow.</p>
(ix)	a program for reporting on the effectiveness of the water management systems and performance against objectives contained in the approved site water management plan, and EIS.	<p>Site Water Management Plan Section 12</p> <p>Notice of Modification, DoP, 23 Aug 2007</p> <p>Surface, Groundwater, Meteorological and Biological Monitoring Report, Appendix B, draft AEMR 2007.</p>	<p>Yes</p> <p>A production dewatering bore-field was established external to the perimeter of the open cut pit. A detailed water budget for the processing phase of the project has been developed and has been revised as the process plant operation has progressed.</p> <p>Water management has been in accordance with the general objectives contained in the EIS and Site Water Management Plan.</p> <p>An amendment to the use of Jemalong water source, was approved by a Notice of Modification granted on 23 August 2006.</p>
(b)	develop a strategy for the decommissioning of water management structures, including water storages both in and around the mine site, the water pipeline from the Bland Creek Palaeochannel borefield (refer condition 4.4), and long term management of final void and Lake protection bund. The strategy shall include, but not be limited to, long term monitoring of the water quality in the final void and stability of Lake protection bund and void walls, and options for alternate uses of the water pipeline. The strategy for the final void shall be submitted by Year 7 of mining operations or five years before mine closure, whichever is the sooner, in consultation with DWE, DECC, DPI(Minerals), and CEMCC, and to the satisfaction of the Director-General.	Site Water Management Plan Section 11	<p>Noted</p> <p>This matter will be addressed in the Closure Plan for the project, when it is developed.</p>

	<p>(c) (i) construct the Lake protection bund and site water and tailings storages to the requirements of <b>DWE, DECC</b> and <b>DSC</b>;</p> <p>(ii) provide a geotechnical report on pit/void wall construction/stability to <b>DPI(Minerals)</b> prior to commencement of mining operations and construct pit/void in accordance with the requirements of <b>DPI(Minerals)</b>;</p>	<p>Site Water Management Plan Section 4.1</p> <p>Letter to DPI re Geotechnical Report on Pit/Void Wall Construction/ Stability, 16 Mar 2005</p> <p>Lake Protection Bund Operation and Maintenance Manual, Jun 2005</p> <p>2006 Surveillance Report for Lake Protection Bund, URS, 11 Dec 2006</p> <p>Letter to NSW DSC re De-prescribing the Lake Protection Bund from the Prescribed Dam Register, BDW, 5 Mar 2007</p> <p>The Effectiveness of Different Mulches in Mine Rehabilitation, J K Smits ANU, May 2008</p> <p>Soil Stockpile Characterisation, J Drake ANU, 2008</p> <p>Waste Rock Geochemical Infill Program, Mesh Environmental Inc and O’Kane Consultants, Jun 2008</p> <p>Landform Design and Rehabilitation Strategies, Landloch Pty Ltd, 9 Dec 2008</p> <p>Rock Armour Suitability Geotechnical Assessment for the Cowal Gold Mine, Geo-Environmental Management, Dec 2008</p>	<p>Yes</p> <p>Yes</p>	<p><u>May 2007</u></p> <p>The geotechnical report on the pit/void wall construction/ stability was prepared and submitted to DPI in March 2005 and the Lake Protection Bund Operation and Maintenance Manual was produced by URS in June 2005.</p> <p>The Lake Protection Bund 2006 Surveillance Report stated: “<i>The permanent lake protection bund at the Cowal Gold Mine is in excellent condition.</i>” The 2006 lake protection bund surveillance report provided by URS recommended that the bund be de-prescribed by the Dam Safety Committee and removed from the Prescribed Dam Register.</p> <p><u>May 2008</u></p> <p>The Lake Protection Bund exhibited erosion of reactive soils following recent rainfall events. The ongoing management of the batters of the lake protection bund requires review to ensure that the rehabilitation of the constructed surfaces is maintained for the long term stability of the bund.</p> <p><u>April 2009</u></p> <p>There have been remedial and maintenance works between May 2008 and March 2009 on the Lake Protection Bund to repair the eroded areas. No rehabilitation works have been commenced, but there have been several reports commissioned by Barrick to investigate the stabilisation, rehabilitation and revegetation of the reactive surface materials.</p>
<p><b>4.3</b></p>	<p><b>Catchment Areas and Watercourses</b></p>			
	<p>The Applicant shall as a landowner have on-going regard for the provisions of the latest versions of the Jemalong Land and Water Management Plan, Lake Cowal Land and Water Management Plan, Mid-Lachlan Regional Vegetation Management Plan, and any future catchment/land &amp; water management plans relevant to the area.</p>	<p>Site Water Management Plan Section 10</p>	<p>Noted</p>	<p>The provisions in the Jemalong Land and Water Management Plan, Lake Cowal Land and Water Management Plan, and Mid-Lachlan Regional Vegetation Management Plan were considered and included where relevant in the Site Water Management Plan.</p>
<p><b>4.4</b></p>	<p><b>Water Supply - Bland Creek Palaeochannel water supply</b></p>			
	<p>(a) The maximum daily extraction of water from the Bland Creek Palaeochannel shall not exceed 15ML/day, and not exceed 3650ML/year. A total extraction of 30,000ML shall not be exceeded for the life of the mine, unless otherwise agreed by the Director-General, in consultation with <b>DWE</b>. All bores from the Bland Creek Palaeochannel borefield used for mine purposes must be metered.</p>	<p>Bore Licence Certificates No. 70BL229248, 70BL229249, 70BL229250, and 70BL229251 (production bores)</p>	<p>Yes</p>	<p>Barrick was granted Bore License Certificates under Section 115 of the Water Act 1912 for water supply from the Bland Creek Palaeochannel on 2003.</p> <p>The water extraction is metered and recorded continuously, with the data collected daily and recorded by the CGP Process Engineer.</p>

				<p><u>April 2007</u></p> <p>The water extraction from the Bland Creek Palaeochannel borefield for 2006 did not exceed 15 megalitres ML/day with a total of 3264 ML extracted for the year.</p> <p>Pumping from the production bores ceased in 1<sup>st</sup> quarter 2007 to allow the aquifer to recover and water was sourced from the Jemalong water scheme under approved water licence agreements obtained by Barrick from local users.</p> <p><u>May 2008</u></p> <p>A total of 1482.95ML was extracted from the borefield during 2007. This did not exceed the allowable allocation.</p> <p><u>April 2009</u></p> <p>A total of 1660.77ML was extracted from the borefield during 2008. This did not exceed the allowable allocation of 3650ML/yr.</p>
	<p>(b) The water pipeline from the Bland Creek Palaeochannel borefield to the mine site shall be:</p> <p>(i) constructed in accordance with the requirements of <b>DWE</b>, and in consultation with <b>DPI(Fisheries)</b>; and</p> <p>(ii) laid in such a way so as not to impede the passage of fish or other animals, or interfere with flood behaviour or the passage of boats and vehicles.</p>	<p>Permit under Part 3A of the Rivers and Foreshores Improvement Act 1948 No. 703A010056</p>	<p>Yes</p>	<p>The pipeline construction across Lake Cowal and along the alignment to the east of the lake towards the production bores occurred in 2004 and involved the burial of the pipe 1.5 metres below the surface and refilling of the trench with the original excavated material and compacted to the original ground level. The pipeline trench was backfilled and an access track along the route had been established to inspect the trench and pipeline and for access to the groundwater monitoring bores across the lake.</p>
	<p>(c) The water supply shall be installed with an automatic shut down device so water pumping is immediately stopped in the event of any pipe rupture. The water supply shall not be restarted until the rupture is located and repaired.</p>		<p>Yes</p>	<p>Automatic shut down devices are fitted to the water pipeline from the production bores to the process plant, and were tested prior to commencement of processing.</p> <p>No pipe ruptures had occurred between June 2006 and April 2007.</p>
	<p>(d) Leases or private agreements shall be completed with the relevant landholders for the land requirement for pipeline infrastructure prior to commencement of water pipeline construction.</p>	<p>Part 3A Permit Application 24 Mar 2004</p> <p>Enclosure Permit No. 353669 DLWC</p> <p>Deed of Agreement for Pipeline Easement, 19 June 2003</p>	<p>Yes</p>	<p>Easement Agreements were provided for land along the pipeline route for which Barrick was not the Registered Proprietor:</p> <p>Lot 18, DP753097, Lots 44, 45, 46 and 47, DP42918</p> <p>TSR84719 public roads vested in Forbes Shire Council</p>
<b>4.5</b>	<b>Disposal of Excess Water</b>			
	<p>There shall be no disposal of water from the internal catchment drainage system to Lake Cowal under any circumstances.</p>		<p>Noted</p>	<p>The Site Water Management Plan and water management systems collect all water from the mine operations area and direct it to holding ponds for reuse on the site or treatment for use in the plant and mine operations. There is no disposal of water from the site.</p> <p><u>May 2008</u></p>

				<p>No water has been released to Lake Cowal from the CGP internal catchment system.</p> <p><u>April 2009</u></p> <p>No water has been released to Lake Cowal from the CGP internal catchment system.</p>
<b>5</b>	<b>HAZARDOUS MATERIALS AND TAILINGS MANAGEMENT</b>			
<b>5.1</b>	<b>Waste Rock Emplacement and Management</b>			
	The Applicant shall construct and manage the waste rock emplacement as set out in the EIS, and to the satisfaction of the DPI(Minerals).	EIS section Mining Operations Plan 2005-2007	Noted	Waste rock emplacement from the mine operations has occurred in accordance with the MOP, with the establishment of the northern and southern waste emplacement areas.
 <p>Northern waste rock emplacement area (looking North from the STSF Wall) April 2009</p>				
 <p>Northern waste rock emplacement area (looking south from the old Explosives storage area) April 2009</p>				
<b>5.2</b>	<b>Tailings Emplacement and Management</b>			
	The Applicant shall: (a) construct the tailings dams to the requirements of, DPI(Minerals), DECC and DSC and in consultation with DWE;	Letter to DEC re Permeability Test Report for NTSF, Dec 2004 Letter to DEC re Permeability Test	Yes	(a) The NTSF and STSF were constructed in accordance with the requirements of the DEC (EPA)/DSC and DPI (Minerals).

	<p>(b) construct and compact the floor of the tailings storages as required to a permeability acceptable to the <b>DPI(Minerals)</b> and <b>DECC</b> in consultation with <b>DWE</b>;</p>	<p>Report for STSF  <a href="#">Letter from Dam Safety Committee re STSF Stage 2 Construction, 9 Jan 2009</a></p>		<p>The STSF received tailings pumped from the process plant for storage from June 2006 to April 2007.                  (b) Permeability Test Report for the NTSF was submitted to DEC (EPA) and DPI and DIPNR (LWC) on 1 Dec 2005.  <a href="#">May 2008</a>                  The second lift on the Southern Tailings Emplacement area was occurring at the time of this audit and all the tailings were being released to the Northern Tailings Emplacement.  <a href="#">April 2009</a>                  Stage 2 STSF construction was complete, and Stage 2 lift on the NTSF had commenced. The Dam Safety Committee provided a response to the Construction Report in January 2009 advising that their review satisfies the Committee's requirements.</p>
	<p>(a) construct the tailings dams to the requirements of, <b>DPI (Minerals)</b>, <b>DECC</b> and <b>DSC</b> and in consultation with <b>DWE</b>;</p>			



Northern Tailing Storage Facility (looking southeast from the north west corner of the NTSF) May 2008



Northern Tailing Storage Facility during construction of the next lift (looking southeast April 2009).

5.3	<b>Management of Retained Water – Cyanide Management</b>			
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<p>(a) <u>Cyanide levels</u> The Applicant shall ensure that cyanide levels of the aqueous component of the tailings slurry stream do not exceed: 20mg CN<sub>WAD</sub>/L (90 percentile over six months), and 30mg CN<sub>WAD</sub>/L (maximum permissible limit at any time), at the discharge point to the tailings storages.</p>	<p>Letter and Data to DoP/DPI-Minerals/DECC re Monthly Cyanide Monitoring, Jun 2008 to March 2009</p>	<p>Yes</p>	<p>Tailings emplacement commenced to the STSF in March 2006. The cyanide levels in the slurry stream have not exceeded &lt;20mg CN<sub>WAD</sub>/L (90 percentile) between June 2006 and April 2007.  <u>May 2008</u> The cyanide levels in the slurry stream have not exceeded the &lt;20mg CN<sub>WAD</sub>/L (90 percentile) between June 2007 and May 2008.  <u>April 2009</u> CN<sub>WAD</sub> levels at the Cowal Gold Project tailings storage facility have been forwarded to DoP/DPI-Minerals/DECC and the CEMCC quarterly.</p>
<p>(b) Cyanide Management The Applicant shall prepare a cyanide management plan for the monitoring and reporting of cyanide use on the site, in consultation with DPI (Minerals), DECC, and DWE, and to the satisfaction of the Director-General, prior to any use of cyanide on the site. The plan shall make provision for, but is not limited to:</p> <p>(i) containing cyanide contaminated waters entirely within the mine site;</p> <p>(ii) maintaining weak acid dissociable (WAD) cyanide levels at the discharge point to the tailings dams to the levels stated in condition 5.3(a);</p> <p>(iii) contingency measures for cyanide reduction.</p>	<p>Letter from DoP re Approval of the Cyanide Management Plan, 9 Jan 2006</p> <p>Letter from DEC and DPI re Cyanide Monitoring Program Review, 17 Jan 2007</p> <p>Letter from DPI re Picric Acid Cyanide Methodology, 8 Dec 2006</p> <p>Letter from DECC re Addendum to Cyanide Management Plan, 24 Aug 2007</p> <p>Letter from DWE re Addendum to Cyanide Management Plan, 17 Sep 2007</p> <p>Letter to DPI/DWE/DECC/DoP re Addendum to Cyanide Management Plan, 11 Jun 2008</p> <p>Letter from DWE re Addendum to Cyanide Management Plan, 21 Jul 2008</p> <p>Letter from DoP re Approval of Cyanide Management Plan, 30 October 2008</p>	<p>Yes</p>	<p>The Cyanide Management Plan prepared in accordance with MCoA 5.3(b) was approved by the Director-General on 9 January 2006.</p> <p>Proposed amendments to the Cyanide Management Plan monitoring program in relation to the picric acid analysis method were agreed with the DPI in December 2006, and DEC in January 2007.</p> <p>The cyanide levels in the slurry stream have not exceeded &lt;20mg CN<sub>WAD</sub>/L (90 percentile) between June 2006 and April 2007. Cyanide monitoring results are forwarded to the DoP monthly.</p> <p><u>May 2008</u> DECC accepted the use of the picric acid method of analysis and removal of the V-notch channel at the TSF, in August 2007. DWE accepted the proposed addendum to the Cyanide Management Plan in September 2007.</p> <p><u>April 2009</u> Barrick submitted an amended Cyanide Management Plan to DWE on 11 June 2008 and DoP on 12 August 2008. DWE accepted the amended plan on 21 July 2008 and DoP approved the amended plan on 30 October 2008.</p>
<p>(c) In the event of wildlife deaths occurring due to cyanide, review of cyanide levels shall occur by the DECC in consultation with the Applicant and DPI (Minerals). Any decision to require cyanide reduction shall include, but not be limited to, consideration of the number of fauna deaths, the species involved, antecedent condition of species, methods employed at the time to prevent use of tailings dams by fauna, and antecedent climatic and</p>	<p>Wildlife Monitoring and the International Cyanide Code: Wildlife Monitoring Workshop, Donato Environmental Services, 21-22 Feb 2007</p> <p>Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Oct 2006 to</p>	<p>Noted</p>	<p>No wildlife deaths attributable to cyanide have occurred up to April 2007.</p> <p>Barrick environmental and processing personnel attended an avifauna training workshop by Donato Environmental Services on Wildlife Monitoring and the International Cyanide Management Code. The training module provided procedures, reporting requirements, observation records</p>



	<p>surface water conditions of the Lake and surrounding area. The Applicant shall notify the CEMCC of any reductions in cyanide levels as soon as practicable.</p>	<p>March 2007, Donato Environmental Services, August 2007</p> <p>Letter from DoP re Modification to Consent, 13 Mar 2008</p> <p>Letter from DECC re Fauna Reporting Protocol, Feb 2009</p>		<p>and species list/reference images.</p> <p><u>May 2008</u></p> <p>The reporting of fauna fatalities has been modified by the Modification to Consent granted by DoP in March 2008.</p> <p><u>April 2009</u></p> <p>The revised fauna fatality reporting protocol was provided to DECC. DECC responded positively to the proposed changes.</p> <p>Training of Barrick personnel by Donato Environmental Services was conducted in March 2009 in relation to requirements under the Cyanide Management Code.</p>
<b>5.4</b>	<b>Fuel, Oil and other Chemical Handling</b>			
	<p>(a) <u>Pre-Construction Studies</u></p> <p>The Applicant shall prepare and submit for the approval of the Director-General, the studies set out under subsections 5.4(a)(i) to 5.4(a)(iii) (the pre-construction studies), at least one month prior to the commencement of construction of the proposed development, (except for construction of those preliminary works that are outside the scope of the hazard studies), or within such further period as the Director-General may agree. Construction, other than of preliminary works, shall not commence until approval has been given by the Director-General and, with respect to the fire safety study, approval has also been given by the Commissioner of the NSW Fire Brigades.</p>	<p>Letter from DIPNR re extension for submission of HAZOP Studies, 9 Dec 2004</p>	Yes	<p>The pre-construction studies (excluding the HAZOP supplementary studies) were prepared and submitted to DIPNR on 22 December 2004.</p>
	<p>(i) <u>Fire Safety Study</u></p> <p>This study shall cover all aspects detailed in the Department's Hazardous Industry Planning Advisory Paper No. 2, "Fire Safety Study Guidelines" and the New South Wales Government's "Best Practice Guidelines for Contaminated Water Retention and Treatment Systems". The study shall also be submitted for approval to the New South Wales Fire Brigades.</p> <p>The study should, in particular, address the fire related issues associated with the storage and use of Ammonium Nitrate, Sodium Isobutyl Xanthate, and Cyanide.</p>	<p>Letter to NSW Fire Brigades – Submission of Fire Safety Study for approval, 22 Dec 2004</p> <p>Letter to DIPNR – Submission of Fire Safety Study, 22 Dec 2004</p> <p>Letter from NSW Fire Brigades re Satisfaction with the Fire Safety Study, 15 September 2005</p>	Yes	<p>Fire Safety Study prepared by Pinnacle Risk Management for CGP was submitted to the Commissioner of the NSW Fire Brigade for approval and then submitted to DIPNR in Dec 2004 in accordance with MCoA 5.4.</p> <p>The NSW Fire Brigades provided a letter expressing satisfaction with the fire safety measures within the study in September 2005.</p>
	<p>(ii) <u>Hazard and Operability Study</u></p> <p>The study is to be chaired by an independent qualified person approved by the Director-General prior to the commencement of the study. The study shall be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 8, "HAZOP Guidelines". The HAZOP shall in particular address the monitoring, control, alarm and shutdown systems associated with xanthate and cyanide process streams.</p>	<p>Letter to DIPNR – Submission of HAZOP Study, 22 Dec 2004</p> <p>Letter from DoP re HAZOP Supplementary Studies, Sep 2005</p> <p>Letter from Barrick to DoP re HAZOP Study Action Closeout Status, 16 Jan 2006HAZOP</p>	Yes	<p>The Hazard and Operability Study for the main plant area was prepared and submitted to DIPNR in Dec 2004 and the HAZOP Study Action Item Closeout Status Report (Action Program) prepared by Aker Kvaerner Australia Pty Ltd was submitted in Dec 2004.</p> <p>Supplementary HAZOP Studies for the oxygen system, LPG system and cyanide leach package was notified to be to the satisfaction of the Director-General in Jan 2006.</p>

	Supplementary Studies		
<p>(iii) <i>Final Hazard Analysis</i></p> <p>The analysis should be prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 6, "Guidelines for Hazard Analysis".</p>	<p>Final Hazard Analysis, 2004</p> <p>Letter to DIPNR – Submission of Final Hazard Analysis, 22 Dec 2004</p> <p>Letter from DIPNR re Fire Hazard Analysis, 30 Mar 2005</p>	Yes	<p>The Final Hazard Analysis was prepared by CGP and submitted to DIPNR on 22 December 2004.</p> <p>The Final Hazard Analysis was approved by DIPNR in March 2005.</p>
<p>(b) <i>Pre-Commissioning Studies</i></p> <p>The Applicant shall prepare and submit for the approval of the Director-General the studies set out under subsections 5.4(b)(i) to 5.4(b)(iii) (the pre-commissioning studies), no later than two months prior to the commencement of commissioning of the proposed development, or within such period as the D-G may agree. Commissioning shall not commence until approval has been given by the D-G.</p>	See references below	Yes	The pre-commissioning studies were conducted and reports prepared and submitted to the Director-General. Approval was of the studies and plans were obtained prior to commencement of the plant commissioning.
<p>(i) <i>Transport of Hazardous Materials</i></p> <p>The study comprises arrangements covering the transport of hazardous materials including details of routes to be used for the movement of vehicles carrying hazardous materials to or from the proposed development. The study shall be carried out in accordance with the Department's draft "Route Selection" guidelines. Suitable routes identified in the study shall be used except where departures are necessary for local deliveries or emergencies.</p> <p>The study should also address (1) the issues associated with spills, cleanup procedures, training of clean-up teams, communication, and liaison with organisations such as the fire brigades, District Emergency Management Coordinator (and Committee), Local Emergency Management Committee(s), and state emergency services; (2) inspection and monitoring procedures for chemicals such as explosives, xanthates and cyanides prior to commencement of a trip, to verify the integrity of the packaging; and (3) measures to be taken to ensure that the temperature of the materials does not rise above safe levels</p>	<p>Transport of Hazardous Material Study, 2006</p> <p>Letter from DoP re Approval of Transport of Hazardous Materials Plan, 9 January 2006</p> <p>Letter from DoP re Approval for Transport of Flotation Chemicals, 28 Feb 2007</p> <p>Letter re Interim Approval from DoP re Transport of SIBX, 20 Sep 2007</p>	Yes	<p>DIPNR agreed to the submission of the Transport of Hazardous Materials Study to be submitted in two stages at least one month prior to commissioning of the relevant plant components:</p> <ul style="list-style-type: none"> <li>• Process plant</li> <li>• Flotation plant components (primary ore)</li> </ul> <p>Requirements for the route evaluation for hazardous materials studies were prepared and consultation with the Councils was conducted in accordance with Guideline No.9. The Transport of Hazardous Materials Study was approved by the D-G on 9 Jan 2006. The transport of flotation chemicals was approved by DoP in Feb 2007.</p> <p><u>May 2008</u></p> <p>A temporary amendment to the Transport of Hazardous Materials Study to allow the substitution of SiBX for PAX (due to an unexpected short supply of PAX) was approved by DoP on 20 September 2007.</p>
<p>(ii) <i>Emergency Plan</i></p> <p>A comprehensive emergency plan and detailed emergency procedures for the proposed development. This plan shall include detailed procedures for the safety of all people outside of the development who may be at risk from the development. The plan should be in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 1, "Industry Emergency Planning Guidelines", and include procedures for spillage, cleanup, control and protection, and rescue of wildlife during the emergency.</p>	<p>Letter from DoP re Approval of the Operations Emergency Management Plan, 14 Dec 2005</p> <p>Emergency Response Plan, Mar 2007</p> <p>Emergency Response Plan Cowal Gold Project, March 2007</p> <p>Letter from DoP re updated Emergency Plan, 18 Jun 2008</p>	Yes	<p>The Operations Emergency Plan was submitted to DoP and approval was obtained on 14 December 2005.</p> <p>A comprehensive review of the Emergency Response Plan was undertaken in February 2007 and the revised plan was submitted to DoP on 23 March 2007.</p> <p><u>April 2009</u></p> <p>Barrick updated the Emergency Plan and submitted to DoP on 29 April 2008. DoP approved the updated plan on 18 June 2008.</p>

<p>(iii) <u>Safety Management System</u>  A document setting out a comprehensive safety management system, covering all operations on-site and associated transport activities involving hazardous materials. The document shall clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to procedures. Records shall be kept on-site and should be available for inspection by the Director-General upon request. The safety management system should be developed in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, "Safety Management".</p>	<p>Safety Management System Oct 2005  Letter from DoP re Approval of the Safety Management System, 14 December 2005  Revised Safety Management System Feb 2007  <b>Safety Management Plan Cowal Gold Project, March 2007</b>  Letter from DoP re updated Safety Management System, 18 Jun 2008</p>	<p>Yes</p>	<p>Safety Management System was approved by DoP on 14 December 2005.  A major review of the Safety Management System was conducted by Barrick in February 2007 and a revised version submitted to DoP on 22 Feb 2007.  <u>April 2009</u>  Barrick updated the Safety Management System and submitted to DoP on 29 April 2008. DoP approved the updated plan on 18 June 2009.</p>
<p>(c) <u>Compliance Reports</u>  One month prior to the commencement of operation of the plant, the Applicant shall submit to the Director-General, a compliance report detailing compliance with conditions 5.4(a) and 5.4(b), including:  (i) dates of study submission, approval, commencement of construction and commissioning;  (ii) actions taken or proposed, to implement recommendations made in the studies; and  (iii) responses to each requirement imposed by the Director-General under condition 5.4(f).</p>	<p>Pre-Operation Compliance Report, February 2006  Letter to Director-General re Pre-operation Compliance Report, 16 February 2006.  Letter from Director-General re Acceptance of Compliance Report, 6 March 2006</p>	<p>Yes</p>	<p>The Compliance Report was prepared and submitted to the Director-General on 16 February 2006 in accordance with MCoA 5.4(c) prior to the commencement of operation of the plant.</p>
<p>(d) <u>Incident Report</u>  Within 24 hours or the next working day of any incident or potential incident with actual or potential significant off-site impacts on people, or the biophysical environment (including wildlife), report shall be supplied to the Director-General outlining the basic facts and mitigation measures undertaken at the time. A further detailed report shall be prepared and submitted following investigations of the causes and identification of necessary additional preventative measures. The report must be submitted to the Director-General no later than 14 days after the incident or potential accident. The Applicant shall maintain a register of such accidents, incidents, and potential incidents. The register shall be made available for inspection at any time by the independent hazard auditor and the Director-General.</p>		<p>Yes</p>	<p>No reportable incidents occurred between June 2006 and April 2007.  <u>April 2009</u>  No reportable incidents related to on-site activities occurred between June 2008 and March 2009.</p>
<p>(e) <u>Hazard Audit</u>  Twelve months after the commencement of operations of the proposed development or within such further period as the Director-General may agree, the Applicant shall carry out a comprehensive hazard audit of the proposed development and submit a report of the audit to the Director-General.</p>	<p><b>Hazard Audit Report for Barrick Australia, Cowal Gold Project, Pinnacle Risk Management Pty Ltd, 6 June 2007</b>  Letter to DoP re Hazard Audit, 10 July 2007</p>	<p>Yes</p>	<p>A Hazard Audit was being conducted by Dean Shewring of Pinnacle Risk Management Pty Ltd, at the same time as this environmental audit (i.e. 12 months after commencement of operation of process plant). The report will be prepared and provided to CGP for submission to the Director-General.</p>

	The audit shall be carried out at the Applicant's expense by a duly qualified independent person or team approved by the Director-General prior to commencement of the audit. Further audits shall be carried out every three years or as determined by the Director-General and a report of each audit shall within a month of the audit be submitted to the Director-General. Hazard audits should be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 5, "Hazard Audit Guidelines".	Letter from DoP re Hazard Audit, 6 August 2007.		<p><u>May 2008</u></p> <p>DoP accepted the Hazard Audit conducted by Pinnacle Risk Management on 6 August 2007, as appropriate for the project.</p> <p><u>April 2009</u></p> <p>A site visit by Pinnacle Risk Management to scope the Hazard Audit due in 2010 is to occur on 6-7 April 2009.</p>
	(f) <u>Further requirements</u> The Applicant shall comply with all reasonable requirements of the Director-General in respect of the implementation of any measures arising from the approvals given in respect of conditions 5.4(a) - 5.4(e) above, within such time as the Director General may agree.		Noted	No further requirements were advised by the Director-General prior to April 2007.
<b>5.5</b>	<b>Domestic Waste</b>			
	The Applicant shall dispose of all solid waste and putrescible matter from the site to the satisfaction of BSC.		Yes	All solid waste and putrescible matter from the site activities is collected by a waste contractor for disposal at the BSC landfill.
<b>5.6</b>	<b>Sewage and Associated Waste Management</b>			
	The Applicant shall install the site sewage treatment facility, and dispose of treated sewage and sillage to the satisfaction of BSC and DECC, and in accordance with the requirements of the Department of Health.	Construction Certificate No.6, 4 Apr 2005 for Package Sewage Treatment Plant, DIPNR	Yes	The permanent on-site sewage management system was installed west of the Mine Workshop and Administration Complex in the 1 <sup>st</sup> quarter 2006 in accordance with the requirements of the Department of Health.
<b>5.7</b>	<b>Asbestos &amp; Other Hazardous/Toxic Waste Management</b>			
	The Applicant shall prior to commencement of construction works prepare a Hazardous Waste and Chemical Management Plan as set out in section 6.4.1 of the EIS in consultation with DECC and BSC, and to the satisfaction of the Director-General.	<p>Hazardous Waste and Chemical Management Plan (HWCMP) Oct 03 HWCMP Revised Jan 2006 Letter from Director-General re Approval of Revised Plan, 6 Mar 06 Letter from DECC re Addendum to HWCMP, 6 Dec 2007</p>	Yes	<p>The Hazardous Waste and Chemical Management Plan approved by the Director General in October 2003, was revised by Barrick and submitted to the Director-General. Approval was obtained from the Director-General on 6 March 2006.</p> <p><u>May 2008</u></p> <p>The HWCMP was revised and an addendum added, and the changes were accepted by DECC in November and December 2007.</p>
<b>6.</b>	<b>AIR QUALITY/BLAST/ NOISE AND LIGHT MANAGEMENT</b>			
<b>6.1</b>	<b>Air Quality Management</b>			
	(a) The Applicant shall prior to commencement of construction works prepare a dust management plan detailing air quality safeguards and procedures for dealing with dust emissions in consultation with the EPA and to the satisfaction of the Director-General. The management plan shall be updated as required by the Director-General and/or EPA. The plan shall	<p>Dust Management Plan 2003 Letter from DIPNR re Dust Management Plan 1 Aug 2003 Amendment to Dust Management Plan, Dec 2008</p>	Yes	<p>A Dust Management Plan was prepared by Barrick, approved by the Director General in August 2003.</p> <p><u>May 2008</u></p> <p>The Dust Management Plan is due for review during 2008 to address the requirements of MCoA 3.2.</p>

	include, but not be limited to, details of: locations for dust monitoring (in accordance with Australian Standard), including location gauges near the Gumbelah residence, and bird breeding and native flora areas determined by the Applicant in consultation with the EPA and NPWS;	Letter from DoP re Dust Management Plan Amendment Approval, 25 Feb 2009		<u>April 2009</u> Amendment of the Dust Management Plan submitted to DoP in Dec 2008 and approved by DoP in Feb 2009.
	(b) methods to determine when and how the mine operation is to be modified to minimise the potential for dust emissions.	Dust Management Plan Section 5 Dust Management Plan Section 7	Yes	Baseline monitoring of dust has continued with the dust deposition gauges maintained and samples collected each month. Dust monitoring results are included in the 2006 AEMR. Dust monitoring has continued at the sites specified in EPL condition P1.1.
	(c) measures to continue baseline monitoring undertaken prior to development consent. (Refer condition 8.3 for air quality monitoring details)	Letter from DoP re Addendum to Dust Management Plan, 31 August 2007.		
<b>6.2</b>	<b>Dust Suppression and Control</b>			
	The Applicant shall: (i) maintain and use sufficient equipment with the capacity to apply water to all unsealed trafficked areas at a rate which minimises dust emissions; (ii) ensure the prompt and effective rehabilitation of all disturbed areas to minimise generation of wind erosion dust, in accordance with the requirements of DPI(Minerals); (iii) keep the surface of all stockpiles sufficiently treated to minimise windblown dust.	Letter from DoP re Addendum to Dust Management Plan, 31 August 2007. Amendment to Dust Management Plan, Dec 2008 Letter to DoP re Amendment to Dust Management Plan, 19 Dec 2008 Letter from DoP re Dust Management Plan Amendment Approval, 25 Feb 2009	Yes	Two large water tankers are available on site for the control of dust on roads and other disturbed areas subject to traffic movements, and two smaller water tankers were available for dust control on the construction areas.  Water tankers are observed working on site during the audit site inspections for the control of dust on roads and other disturbed areas. <u>May 2008</u> DoP accepted the amendments to the Dust Management Plan in relation to monitoring locations and dust mitigation techniques for the site. <u>April 2009</u> Water trucks and Petrotac surface treatment applied for dust control on the site.
<b>6.3</b>	<b>Blast Management</b>			
	The Applicant shall: (i) prior to mining operations prepare a blast management plan in consultation with the EPA and to the satisfaction of the Director-General . The plan shall identify the blast provisions detailed in the ANZECC document titled "Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure, and Ground Vibration". The plan shall also detail strategies and procedures for dealing with blasts which exceed air blast overpressure of 120dB(L Peak Linear) at dwellings, or demonstrably disturb bird breeding, and carry out remedial measures as directed by the DECC.	Blast Management Plan Sep 2003 Letter from NPWS re Blast Management Plan, 5 Aug 2003 Letter from DMR Ref L03/0324 re Draft Blast Management Plan 8 Aug 2003 Letter from DIPNR re Blast Management Plan 23 Aug 2003	Yes	A Blast Management Plan was prepared by Barrick, approved by the Director-General in August 2003. <u>May 2008</u> The Blast Management Plan is due for review during 2008 to address the requirements of MCoA 3.2. <u>April 2009</u> The D-G has approved the extension of time for revision of the Environmental Management Plans. The Blast Management Plan will be reviewed and revised if necessary.
	(ii) advise residents within two (2) kilometres of the active mining area of future blasting events on a monthly basis, and of any changes to monthly programs.	Blast Management Plan Section 3 Letters of Notification of Blasting to residents – Sep/Oct 2005 Notification of Blasting to residents –	Yes	Residents in the vicinity of the mine lease were advised in advance of blasting, even though they were outside the 2km radius of the active mining area. There are no residents within 2km of the mining area. No complaints

		Jan to Jun 2006		have been received in relation to blasting. <a href="#">April 2009</a> No complaints received in relation to blast impacts.
	(iii) upon written request of the owner of any dwellings located within two (2) kilometres of the active mining area, the Applicant shall arrange at its own costs, for the inspection by a technically qualified person agreed to by both parties, to record the material condition of any structure on such property within 14 days of receipt of the request. The Applicant shall supply a copy of any inspection report, certified by the person who undertook the inspection, to the relevant property owner within fourteen (14) days of receipt of the report; (Refer condition 8.4(b) for blast monitoring details)	Blast Management Plan Section 11	Not activated	No complaints or requests for inspection of any properties were received in relation to the blasting conducted between June 2006 and April 2007. <a href="#">May 2008</a> No complaints or requests for inspection of any properties were received in relation to the blasting, between June 2007 and April 2008. <a href="#">April 2009</a> No complaints or requests for inspection of any properties were received in relation to the blasting, between May 2008 and March 2009.
<b>6.4</b>	<b>Noise Control</b>			
	(a) <u>Noise levels - mine operations</u> The Applicant shall ensure that the LAeq (15 minute) noise emissions from the mine, when measured or computed at any dwelling in the vicinity of the mine (other than one owned by a mining company), do not exceed:- - during day time (7am-10pm), an LAeq (15 minute) noise level of 35dB(A) - during evening (6pm to 10pm), Monday to Friday, an LAeq (15 minute) noise level of 35dB(A). - at all other times, an LAeq (15 minute) noise level of 35dB(A), except as expressly provided by other approvals/licences granted by other agencies. These goals apply under meteorological conditions of: • wind speeds up to 3m/s at 10 m about ground level, or • temperature inversion conditions of up to 3°C/100 m and wind speed up to 2 m per second at 10 m above ground level.	Noise Management Plan, Oct 2004	Noted	Noise monitoring was conducted by Heggies in July 2006 and January 2007. The results indicated that the measured mine noise emissions were below the intrusive LAeq (15 minute) 35 dBA criterion and LA10(15 minute) criteria applicable at all the monitored residential dwellings. <a href="#">May 2008</a> Noise surveys were conducted by Heggies Australia in July 2007 and February 2008. <a href="#">April 2009</a> Noise surveys were conducted in accordance with the Noise Management Plan, in July 2008 and January 2009 (the 2009 report had not been submitted to Barrick at the date of this audit).
	(b) <u>Noise management plan</u> The Applicant shall prior to commencement of mining operations prepare a noise management plan in consultation with the DECC and to the satisfaction of the Director-General. The plan shall detail noise strategies and procedures for dealing with noise which exceeds the LA10(15 minute) noise emission limits set out in this consent, including where appropriate exceedences during temperature inversions, or demonstrably disturbs bird breeding, and carry out remedial measures as directed by the DECC. (Refer condition 8.4 for noise investigation/monitoring details).	Letter from DIPNR re Noise Management, 21 Nov 2004 Noise Management Plan Oct 2004 <a href="#">Letter to DoP and DECC re Addendum to Noise Management Plan, 6 Aug 2007</a> <a href="#">Letter from DECC re Noise Management Plan addendum, 23 Jul 2007</a>	Yes	<a href="#">May 2008</a> An addendum to the Noise Management Plan modifying the location of monitoring point N04, was accepted by DoP and DECC on 23 July 2007. <a href="#">April 2009</a> The D-G has approved the extension of time for revision of the Environmental Management Plans. The Noise Management Plan will be reviewed and if necessary revised.
	(c) <u>Road traffic noise</u>	Traffic Noise Management Plan Nov	Yes	A Traffic Noise Management Plan for the access road was

	(i) The Applicant shall, prior to commencement of construction, prepare a traffic noise management plan for the access road from the intersection with the Mid-Western Highway to the mine site in consultation with the DECC and BSC, and to the satisfaction of the Director-General. The plan shall include, but not be limited to: details of noise monitoring; and details of mitigation measures in the event of noise exceedences.	2003 Letter to DEC and DoP re Traffic Noise Management Plan, 15 Feb 2007  Letter from DEC re Traffic Management Plan 22 Feb 2007  Letter from DECC re Traffic Management Plan 3 Jul 2007		prepared by Barrick, approved by the Director General in August 2003.  <u>May 2008</u>  An amendment to the Traffic Noise Management Plan was agreed to by the DECC in February 2007 and July 2007 in relation to application of the EPA Environmental Criteria for Traffic Noise to the project.
	(ii) Truck movements for material delivery will be restricted as far as practicable to daytime hours (0700-2200 hrs).	Traffic Noise Management Plan Section 2.3	Noted	
	(iii) Notwithstanding subclause (i) above, traffic noise monitoring shall be conducted at any of the five dwellings predicted to be affected by road traffic noise as identified in the EIS upon receipt of relevant noise complaint. Noise amelioration works shall be implemented where noise levels (as validated by monitoring) are determined to be in exceedence of relevant EPA criteria. The proposed amelioration measures shall be approved by BSC prior to implementation.	Traffic Noise Management Plan Section 4.1.2  Traffic Noise Assessment Feb 2005, Heggies Australia, May 2005  Traffic Noise Assessment, Heggies Australia, Feb 2006  Traffic Noise Assessment, Heggies Australia, Jan 2007  Traffic Noise Assessment, Heggies, Jan 2008	Yes	Traffic Noise Emissions Assessment was conducted in February 2006 and January 2007 by Heggies Australia as part of the mine operating noise assessment. The measured traffic noise levels were reported to be generally consistent with the predictions and assessments presented in the Traffic Noise Management Plan August 2003.  <u>April 2009</u>  The Annual Traffic Noise Assessments conducted by Heggies concluded that the traffic volume had increased, but traffic noise was still compliant with the relevant criteria.
	(iv) In the event that other landowners consider that noise at their dwelling which is located along the mine access road between the Mid-Western Highway and the mine site, is in excess of the relevant EPA amenity criteria for traffic noise, and the Director-General, in consultation with the EPA, is satisfied that an investigation is required, the Applicant shall upon receipt of a written request:  <ul style="list-style-type: none"> <li>• appoint a qualified independent person to undertake direct discussions with the landowners affected to ascertain their concerns and to plan and implement an investigation to quantify the impact and determine the sources of the effect, and</li> <li>• where the project is identified as the cause/source bear the cost of the independent investigation and if exceedences are identified implement noise amelioration to provide for full compliance with EPA criteria. The proposed amelioration measures shall be approved by BSC prior to implementation.</li> </ul>	Traffic Noise Management Plan Section 4.1.3	Not activated	This condition had not been activated prior to April 2007 <u>May 2008</u>  This condition had not been activated prior to April 2008. <u>April 2009</u>  This condition had not been activated prior to April 2009.
<b>7</b>	<b>TRANSPORT AND UTILITIES</b>			
<b>7.1</b>	<b>Road Transport</b>			
	<u>Mine site access road</u>  (i) The Applicant shall ensure as far as practical that the preferred	Bland Shire Council Decision Notification of Approval of Cowal Gold Project Access Road Upgrade,	Yes	The access road route to the mine site from West Wyalong was approved by the Bland Shire Council in 1999 and was completed and in use in 2006.

	mine access road route as described in the EIS is the only route used by employees and contractors travelling to the mine site from West Wyalong and no other route.  (ii) The mine access road upgrade shall be undertaken in accordance with the approval issued by BSC under Part 5 of the Environmental Planning and Assessment Act, 1979.  (Refer also to conditions 2.2 and 5.4(b)).	21 April 1999  Letter to BSC re Mine Access Road, 31 January 2005.		
<b>8.</b>	<b>MONITORING/AUDITING</b>			
	Monitoring programs in conditions 8.1 - 8.6 below are to be revised/updated annually, unless otherwise directed by the Director-General, to reflect changing environmental requirements significant changes in technology/operational practices and results from monitoring conducted. Changes shall be made and approved through the AEMR process. All monitoring programs shall also be made publicly available at BSC within two weeks of approval of the relevant government authority.	Surface Water, Groundwater, Meteorological and Biological Monitoring Program – Construction Phase, Dec 2003  Letter from DIPNR re Draft Surface and Groundwater, Meteorological and Biological Monitoring Program, for mining operations, 11 April 2005  Independent Monitoring Panel Report, March 2006  <b>Independent Monitoring Panel Report, August 2007</b>  <b>Fourth Independent Monitoring Panel Report, October 2008</b>	Yes	DIPNR advised they were satisfied that the monitoring and sampling design detailed in the mining operations program within the Surface Water, Groundwater, Meteorological and Biological Monitoring Program met the requirements of the MCoA.  Development of investigative triggers and effective responses to any detected adverse affects as recommended by the Independent Monitoring Panel Annual Report March 2006, were proposed for action in the 2006 AEMR.  <u>May 2008</u>  An independent review of the Surface Water, Groundwater, Meteorological & Biological Monitoring Plan was being conducted by Professor David Fox (Environmetrics, Melbourne), as recommended by the Independent Monitoring Panel (IMP Report 2006-2007 SOE Report), at the time of this audit.  <u>April 2009</u>  The review of the operations monitoring program by Prof. Fox was submitted to Barrick in June 2008. The revision of the Monitoring Plan was occurring at the date of this audit.
<b>8.1</b>	<b>Meteorological</b>			
	The Applicant shall continue meteorological monitoring by utilising and maintaining the existing weather station on site. The data shall be particularly used for predicting noise, dust and blasting impacts on nearby residences, and bird breeding areas identified by the Applicant in consultation with DECC.		Yes	In June 2004 the meteorological station was established at the permanent site east of the tailings storage area on the southern side of the mine lease.  The meteorological station sends data to the CGP site wide intranet computer system to provide continuous monitoring results for use by the CGP personnel.
<b>8.2</b>	<b>Surface and Ground Water and Cyanide</b>			
	(a) <u>Water monitoring</u> (i) The Applicant shall construct and locate:  (a) surface water monitoring positions in consultation with DWE and DECC, and to the satisfaction of the Director-General , at	Surface Water, Groundwater, Meteorological and Biological Monitoring Program – Construction Phase, Dec 2003 Section 4.3 and 5.3	Yes	Surface and groundwater monitoring locations were approved by the Director-General in March 2003 after Barrick had consulted with the EPA and DIPNR (DLWC).  Groundwater monitoring has been generally in accordance



	<p>least three months prior to the commencement of construction works unless otherwise directed by the Director-General; and</p> <p>(b) groundwater monitoring positions in consultation with <b>DWE</b> and <b>DECC</b>, and to the satisfaction of the Director-General at least six months prior to the commencement of construction works unless otherwise directed by the Director-General.</p>	<p>2005 AEMR, submitted 23 Mar 2006</p> <p>2006 Draft AEMR Apr 2007</p> <p>2007 Draft AEMR, April 2008</p> <p>Letter to DWE re Surface, Groundwater and Biological Monitoring, 21 August 2007</p> <p>Second Independent Monitoring Panel Report, March 2006</p> <p>Third Independent Monitoring Panel Report, August 2007</p> <p>Review of CGP Operations Monitoring Program, Environmetrics Australia, June 2008</p> <p>Fourth Independent Monitoring Panel Report, October 2008</p>		<p>with the EPL, with permanent groundwater monitoring locations in areas that were to be disturbed by development and construction of the mine infrastructure, be installed as soon as construction was complete.</p> <p><u>May 2008</u></p> <p>An independent review of the Surface Water, Groundwater, Meteorological &amp; Biological Monitoring Plan was being conducted by Professor David Fox (Environmetrics, Melbourne), as recommended by the Independent Monitoring Panel (IMP Report 2006-2007 SOE Report), at the time of this audit.</p> <p><u>April 2009</u></p> <p>An independent review of the Surface Water, Groundwater, Meteorological &amp; Biological Monitoring Plan was submitted to Barrick and the IMP in June 2008. The revision of the monitoring plan and program is due for completion by 31 July 2009.</p>
	<p>(ii) The Applicant shall prepare a detailed monitoring program in respect of ground and surface water, including water in the up catchment diversion system, internal catchment drainage system, dewatering bores, Bland Creek Palaeochannel borefield and water supply pipeline from borefield, pit/void, Lake Cowal, and any other waters in and around the mine site, during construction works, mine operations and post mine operations in consultation with <b>DWE</b>, <b>DECC</b>, <b>DPI(Fisheries)</b> and to the satisfaction of the Director- General . The monitoring program during construction works shall be prepared prior to commencement of construction. The monitoring program during mine operation shall be prepared prior to commencement of mine operation. The monitoring program post mine operations shall be prepared by year 7 of mine operations.</p>	<p>Surface Water, Groundwater, Meteorological and Biological Monitoring Program – Mining Operation Phase, Apr 2005</p> <p>Notice of Modification, Aug 2006</p>	<p>Yes</p>	<p>The Surface Water, Groundwater, Meteorological and Biological Monitoring Program - Mining Operations Phase was prepared and submitted to DIPNR and approved on 20 April 2005.</p> <p>Construction of the initial project water management ponds was completed in June 2006, with an additional water storage dam (D9) constructed in 2007.</p>

<p>(iii) The monitoring program will include the development of adequate chemical and biological monitoring in the waters of Lake Cowal, when water is present, by suitably qualified and experienced staff or consultants to the satisfaction of the <b>DWE</b> and <b>DECC</b>, and in the case of biological monitoring <b>DPI(Fisheries)</b>. <b>DWE</b> and <b>DECC</b> must be satisfied as to sampling design, including sample locations, sample frequency, sample handling, transport and analysis, sampling parameters and reporting of analysis results.</p>	<p>Surface Water, Groundwater, Meteorological and Biological Monitoring Program</p>	<p>Yes</p>	<p>The monitoring program was approved by the Director-General in Dec 2003. Groundwater monitoring has been conducted in accordance with the monitoring program and reported in the AEMR.</p> <p>Surface water monitoring of Lake Cowal will be conducted if the water present in the lake is at or above the trigger level of 204.5m AHD.</p> <p><u>May 2008</u> No surface water has been present in Lake Cowal at or above 204.5m AHD prior to May 2008.</p> <p><u>April 2009</u> No surface water has been present in Lake Cowal at or above 204.5m AHD prior to March 2009.</p>
<p>(iv) The results and interpretation of surface and ground water monitoring (including biological monitoring) are to be provided by the Applicant in an approved form to the <b>DWE</b>, <b>DECC</b> and <b>DPI(Fisheries)</b> on a three monthly basis during construction and the first 12 months of ore processing operations and thereafter on an annual basis, unless otherwise agreed by the Director-General. The results are also to be contained and analysed in the Annual Environmental Management Report (Condition 9.2(a)).</p>	<p>Monitoring Data Reports to DEC, DoP and DPI - January to March 2006</p> <p>Cyanide Monitoring Reports to DECC, DoP and DPI (Minerals), monthly May 2007 to March 2008</p>	<p>Yes</p>	<p>The Quarterly Reports on surface and groundwater monitoring results have been provided to the DEC, DoP and DPI in accordance with MCoA, and the results for construction and the first 12 months of operation of the processing plant in accordance with the MCoA.</p> <p><u>April 2009</u> Reporting of monitoring occurs in the AEMR and DECC Annual Return.</p>
<p>(v) the Applicant shall prior to commencement of construction works prepare in consultation with <b>DWE</b> and <b>DPI(Minerals)</b> and to the satisfaction of the Director-General, a monitoring program for the detection of any movement of the Lake protection bund, water storage and tailings structures and pit/void walls during the life of the mine, with particular emphasis on monitoring after any seismic events.</p>	<p>Monitoring Program for the Detection of any Movement of the Lake Protection Bund, Water Storage and Tailings Structures and Pit/Void Walls, Dec 200</p> <p><u>2007 Draft AEMR, May 2008</u> <u>2008 AEMR, March 2009</u></p>	<p>Yes</p>	<p>A monitoring program for the detection of any movement in the lake protection bund, water storage and tailings structures and pit/void walls was prepared by Barrick, approved by the Director-General on 9 October 2003.</p> <p>Monitoring points in the Lake Protection Bund have been installed in accordance with the program. The bores and monuments in the lake protection bund have been monitored during June 2006 to April 2007.</p> <p><u>May 2008</u> The bores and monuments in the lake protection bund were monitored between June 2007 and May 2008.</p> <p><u>April 2009</u> The bores and monuments in the lake protection bund water storage and tailings structures (located every 200m on top of the banks), were monitored between May 2008 and March 2009.</p>

<p>(b) Cyanide Monitoring The Applicant shall prior to any tailings disposal prepare a cyanide monitoring program in consultation with the <b>DECC</b> and <b>DPI (Minerals)</b>, and to the satisfaction of the Director-General. The plan shall include, but not be limited to, provision for:</p>	<p>Cyanide Management Plan 2005 Letter from DoP re Approval of the Cyanide Management Plan, 9 Jan 2006</p>	<p>Yes</p>	<p>The Cyanide Monitoring Program was prepared as part of the Cyanide Management Plan, submitted to the DoP and approved in January 2006.</p>																								
<p>(i) monitoring of CN<sub>WAD</sub> levels of the aqueous component of the tailings slurry stream at the discharge point to tailings dams twice daily or as otherwise directed by the Director-General, with any increases above 20mg CNWAD/L to be assessed daily to ensure compliance and reported monthly to the <b>DPI (Minerals)</b> and <b>DECC</b>, unless otherwise agreed by the Director-General. If the CNWAD levels of 30mg/L are exceeded in the liquid at any time, discharge to the tailings dams shall cease until CN<sub>WAD</sub> levels can be achieved below the levels stated in condition 5.3(a) and such exceedance shall be reported to the <b>DECC</b> within 24 hours;</p>	<p>Process Plant Cyanide Monitoring Reports and Data, Barrick Cyanide Management Plan, section 6.2 <b>Cyanide Monitoring Results, Monthly Reports, May 2008 to March 2009</b></p>	<p>Yes</p>	<p>Monitoring of the discharge to the tailings storage facility has been conducted twice daily since the commencement of discharge of tailings to the southern tailings facility in March 2006. There have been two results that were in excess of the 20mg CN<sub>WAD</sub>/L during the commissioning of the process plant. These results were reported to the DMR and EPA.</p> <table border="1" data-bbox="1411 597 1963 867"> <thead> <tr> <th>Period</th> <th>&gt;20mg CN<sub>WAD</sub>/L</th> <th>&gt;30mg CN<sub>WAD</sub>/L</th> </tr> </thead> <tbody> <tr> <td>May-Jun 2006</td> <td>1</td> <td>0</td> </tr> <tr> <td>Jun-Dec 2006</td> <td>1</td> <td>0</td> </tr> <tr> <td>Dec-Apr 2007</td> <td>0</td> <td>0</td> </tr> <tr> <td><b>May-Dec 2007</b></td> <td><b>0</b></td> <td><b>0</b></td> </tr> <tr> <td><b>Jan-Apr 2008</b></td> <td><b>0</b></td> <td><b>0</b></td> </tr> <tr> <td><b>May-Dec 2008</b></td> <td><b>0</b></td> <td><b>0</b></td> </tr> <tr> <td><b>Jan-Mar 2009</b></td> <td><b>0</b></td> <td><b>0</b></td> </tr> </tbody> </table>	Period	>20mg CN <sub>WAD</sub> /L	>30mg CN <sub>WAD</sub> /L	May-Jun 2006	1	0	Jun-Dec 2006	1	0	Dec-Apr 2007	0	0	<b>May-Dec 2007</b>	<b>0</b>	<b>0</b>	<b>Jan-Apr 2008</b>	<b>0</b>	<b>0</b>	<b>May-Dec 2008</b>	<b>0</b>	<b>0</b>	<b>Jan-Mar 2009</b>	<b>0</b>	<b>0</b>
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<p>(ii) monitoring CN<sub>WAD</sub> levels in the decant water of the tailings dams twice daily or as otherwise directed by the Director-General;</p>	<p>Process Plant Cyanide Monitoring Data, Barrick Cyanide Management Plan, section 6.2 <b>Cyanide Monitoring Results, Monthly Reports, May 2008 to March 2009</b></p>	<p>Yes</p>	<p>Use of decant water in the process plant began on 20 June 2006. Monitoring of the decant water quality occurs twice daily at the same time as the tailings discharge samples and the samples analysed at the on-site laboratory and SGS Laboratory in West Wyalong.</p> <table border="1" data-bbox="1411 997 1963 1260"> <thead> <tr> <th>Period</th> <th>&gt;20mg CN<sub>WAD</sub>/L</th> <th>&gt;30mg CN<sub>WAD</sub>/L</th> </tr> </thead> <tbody> <tr> <td>May-Jun 2006</td> <td>0</td> <td>0</td> </tr> <tr> <td>Jun-Dec 2006</td> <td>0</td> <td>0</td> </tr> <tr> <td>Dec-Apr 2007</td> <td>0</td> <td>0</td> </tr> <tr> <td><b>May-Dec 2007</b></td> <td><b>0</b></td> <td><b>0</b></td> </tr> <tr> <td><b>Jan-Apr 2008</b></td> <td><b>0</b></td> <td><b>0</b></td> </tr> <tr> <td><b>May-Dec 2008</b></td> <td><b>0</b></td> <td><b>0</b></td> </tr> <tr> <td><b>Jan-Mar 2009</b></td> <td><b>0</b></td> <td><b>0</b></td> </tr> </tbody> </table>	Period	>20mg CN <sub>WAD</sub> /L	>30mg CN <sub>WAD</sub> /L	May-Jun 2006	0	0	Jun-Dec 2006	0	0	Dec-Apr 2007	0	0	<b>May-Dec 2007</b>	<b>0</b>	<b>0</b>	<b>Jan-Apr 2008</b>	<b>0</b>	<b>0</b>	<b>May-Dec 2008</b>	<b>0</b>	<b>0</b>	<b>Jan-Mar 2009</b>	<b>0</b>	<b>0</b>
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<p>(iii) an on site laboratory for quickly establishing CN<sub>WAD</sub> levels in the liquid at the discharge point to tailings dams and in the decant ponds for monitoring purposes;</p>	<p>Cyanide Management Plan, section 6.2.3.1                  Letter from DEC Approving Use of Picric Acid Cyanide Methodology                  Letter from DPI re Approving Use of Picric Acid Cyanide Methodology, 2 Dec 2006                  Cyanide Monitoring Results, Monthly Reports, May 2008 to March 2009</p>	<p>Yes</p>	<p>The on-site laboratory has been established and has the capability for analysing the tailings discharge and decant water samples for CN<sub>WAD</sub> using a distillation method and the picric acid spectrophotometric method. Results are available within 4 hours of collection. Verification analysis is conducted by SGS Laboratory in West Wyalong with the results also available on the same day.  <u>May 2008</u>                  The picric acid spectrophotometric method for CN analysis is being used by Barrick in the on-site laboratory for the analysis of daily samples from the tailings and decant ponds, following acceptance of use of this method by DECC and DPI (Minerals).  <u>April 2009</u>                  Daily cyanide analysis has been conducted at the onsite laboratory using the picric acid spectrophotometric method with check analysis by SGS during the May 2008 to March 2009 period.</p>
<p>(iv) on-line monitoring of CN<sub>(FREE)</sub> at locations where employees are operating;</p>	<p>Cyanide Management Plan, section 6.3</p>	<p>Yes</p>	<p>Free cyanide monitoring within the process plant area is conducted as part of the daily workplace monitoring program and is outlined in section 6.3 of the Cyanide Management Plan.</p>
<p>(v) establishing a monitoring regime for detection of cyanide movement beneath and adjacent to the tailings impoundments.</p>	<p>Cyanide Management Plan, section 6.4</p>	<p>Yes</p>	<p>Section 6.4 of the Cyanide Management Plan describes the quarterly groundwater monitoring program designed to detect cyanide movement beneath and adjacent to the tailings storage facilities. No cyanide has been detected in the groundwater monitoring bores to date.</p>
<p>A summary of the cyanide monitoring results shall be provided to the Director-General, DECC and DPI(Minerals) on a three monthly basis, unless otherwise agreed by the Director-General. All results shall be included in the AEMR.</p>	<p>Draft 2006 AEMR, Apr 2007</p>	<p>Yes</p>	<p>The reporting of the cyanide monitoring occurs on a monthly basis. Monitoring started in May 2006 following commencement of use of cyanide in the process plant. Any results in excess of 20mg CN<sub>WAD</sub>/L are reported to the DMR and EPA, if they occur.</p>
<p><b>8.3 Air Quality and Dust</b></p>			
<p>The Applicant shall:                  (a) undertake monitoring at locations described in the dust management plan (condition 6.1);</p>	<p>Dust Management Plan Sep 2003                  Amended Dust Management Plan, July 2007                  Letter to DoP re Amended Dust Management Plan, 9 August 2007</p>	<p>Yes</p>	<p>Dust deposition gauges have been installed at the locations identified in the Dust Management Plan.                  A high volume sampler has been installed at the nearest residence (sensitive receptor) and operates on a 6 day cycle for TSP.</p>

	(b) monitor dust deposition rates and concentrations of total suspended particulates (TSP) for the life of the mine, including monitoring impacts of dust on any surface water within the high water mark of Lake Cowal; and	Dust Management Plan Sep 2003 2005 AEMR, submitted 23 Mar 2006 Draft 2006 AEMR, Apr 2007 <b>2007 Draft AEMR, May 2008</b> <b>2008 Draft AEMR, March 2009</b>	Yes	Dust deposition and TSP monitoring related to Lake Cowal waters have not been activated as the lake has been dry since the commencement of construction in January 2004. Dust monitoring has continued and the results reported in the AEMR. Dust deposition monitoring at six sites and PM <sub>10</sub> monitoring at the locations specified in the EPL condition P1.1 has continued.
	(c) provide all results and analysis of air quality monitoring in the AEMR including a determination of the dust deposition rate in gm/m <sup>2</sup> /month, which shall be plotted in the AEMR.	2005 AEMR, submitted 23 March 2006 Draft 2006 AEMR, Apr 2007 <b>2007 Draft AEMR, May 2008</b> <b>Interpretation and Discussion of 2008 Air Quality Monitoring Results, University of Sydney</b> <b>2008 Draft AEMR, March 2009</b>	Yes	The dust monitoring results have been presented in the draft 2006 AEMR, including plots of the concentrations for each monitoring site.  <b>May 2008</b> <b>The dust monitoring results have been independently reviewed by University of Sydney and the data presented in the 2007 Draft AEMR.</b>  <b>April 2009</b> <b>The dust monitoring results for Jan-Dec 2008 were independently reviewed by University of Sydney and the data presented in the 2008 Draft AEMR.</b>
<b>8.4</b>	<b>Noise and Blasting</b>			
<b>8.4(a)</b>	<b>Noise Investigations and Management</b>			
	The Applicant shall:  (i) prior to mining operations develop a plan to conduct noise investigations at six monthly intervals (unless otherwise agreed by the Director-General) to evaluate, assess and report the LA <sub>10</sub> (15 minute) noise emission levels due to normal operations of the mine under prevailing weather conditions, except during rain and/or wind speeds greater than 3m/s and/or temperature inversions. The methodologies, including establishing the mine's operating configuration, determining survey intervals, weather conditions, seasonal variations, selecting variations, selecting locations, periods and times of measurements, design of any noise modelling or other studies, including the means for determining the noise levels emitted by the mining operations, shall be in accordance with the requirements of the DECC;	Letter from DIPNR re Noise Management Plan prepared to the satisfaction of the Director-General, 11 Nov 2004  Mine Operations Noise Monitoring Report, Heggies Australia, Jul 2006, <b>Mine Operations Noise Monitoring Report, Heggies Australia, Jan 2007</b>  <b>Mine Operations Noise Monitoring Report, Heggies Australia, Jul 2007</b>  <b>Mine Operations and Traffic Noise Monitoring Report January 2008, Heggies, April 2008</b>	Yes	The mine operations commenced in April 2005 with the removal of topsoil and overburden material.  Noise monitoring has been conducted of the site activities and at nearby sensitive receivers by Heggies six monthly in accordance with the Noise Management Plan.  <b>April 2009</b> <b>Heggies reports for Mine operations noise were conducted in July 2008 and January 2009 and traffic noise survey was conducted in January 2009.</b>

<p>(ii) if required from condition 8.4(a)(i) or if wildlife is significantly impacted as identified by monitoring actions undertaken in accordance with condition 3.4(a), survey and investigate noise reduction measures from plant and equipment at the conclusion of the first 12 months of ore processing operations in consultation with NPWS or as directed by the DECC; and</p>	<p>Report on the Interaction of Fauna with the Tailings Storage Facilities, Donato Environmental Services, Jun 2004, July and Nov 2005          Noise Survey – Mine Activities, Heggies, Feb and Jul 2006.          Seasonal Wildlife Use Pattern of the CGP Tailings Facility, Oct 2006 to March 2007, Donato Environmental Services, August 2007          Operations Noise Survey – Mine Activities, Heggies, Feb 2008          Operations Noise Survey, Heggies Jul 2008          Operations Noise Survey, Heggies Jan 2009</p>	<p>Yes</p>	<p>Monitoring of wildlife was conducted during the mining and blasting activities by Diatoma (University of Adelaide) between July and November 2005.          Attended noise surveys were conducted by Heggies at two bird breeding areas to the northeast of the mine in Feb and July 2006.          No demonstrable disturbance of wildlife has been reported.  <u>May 2008</u>          Attended noise surveys were conducted by Heggies at two bird breeding areas to the northeast of the mine in Feb and July 2006.          No demonstrable disturbance of wildlife has been reported.  <u>April 2009</u>          Attended noise surveys were conducted by Heggies at two bird breeding areas to the northeast of the mine in July 2008 and January 2009.          Noise monitoring results reported no demonstrable disturbance of wildlife.</p>
<p>(iii) arrange independent noise emission investigations as provided in Condition 11.1.</p>		<p>Noted</p>	
<p>A summary of noise monitoring results shall be included in the AEMR.</p>	<p>2005 AEMR, 23 Mar 2006          2006 AEMR, Apr 2007          2007 Draft AEMR, May 2008          2008 Draft AEMR, March 2009</p>	<p>Yes</p>	<p>The noise monitoring results have been included in the draft 2006 AEMR.  <u>May 2008</u>          Noise monitoring results were included in the Draft 2007 AEMR.  <u>April 2009</u>          Noise monitoring results were included in the Draft 2008 AEMR.</p>
<p><b>8.4(b)</b></p>	<p><b><u>Blasting</u></b></p>		
<p>The Applicant shall:          ensure that air blast overpressure and vibration monitoring and control is generally carried out in accordance with the recommendations of Australian Standard AS-2187-1993 or its latest version, and in terms of ANZECC guidelines, including compliance with the guideline titled “Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Vibration” or its latest version, to the satisfaction of the DECC;</p>	<p>Blast Management Plan Sep 2003          2005 AEMR, 23 Mar 2006          2006 AEMR, Apr 2007          2005 Review of Blast Monitoring Results, Saros Group, Mar 2006          Review of Blast Monitoring Results, Saros Group, Mar 2007          Draft 2007 AEMR, May 2008          Review of Blast Monitoring Results,</p>	<p>Yes</p>	<p>Blasting has occurred since September 2005 and was carried out generally in accordance with the standards, guidelines and Blast Management Plan.          The blasting that has occurred from June 2006 to April 2007 did not exceed 115dBL or the ground vibration ppv criteria at any of the fixed blast monitor locations at <i>Gumbaleh, Hillgrove or Coniston</i> residences or the breeding areas on Lake Cowal.  <u>May 2008</u>          The blasting results between June 2007 to April 2008, did</p>

		The Saros Group, Mar 2007 Review of Blast Monitoring Results, The Saros Group, Jan 2009 Draft 2008 AEMR, Mar 2009		not exceed 115dBL or the ground vibration ppv criteria of 5mm/s at any of the fixed blast monitor locations. <u>April 2009</u> No blasting results between June 2008 to March 2009, did not exceed 115dBL or the ground vibration ppv criteria of 5mm/s at any of the fixed blast monitor locations.
	design all blasts based on the results of monitored blasts designed to minimise air blast overpressure and ground vibration using the Nonel or equivalent system such that any one (1) blast has less than a five per cent (5%) probability of exceeding an air blast overpressure of 115dB (Peak Linear) and vibration with a peak particle velocity of 5mm/sec at the closest dwellings not owned by the Applicant outside the DA area, and bird breeding/roosting areas determined by the Applicant, in consultation with DECC;	Mining Department – Blast File data	Yes	No blasts have exceeded 115dBL overpressure or resulted in vibration that has triggered the fixed location monitors. All blasts are designed to address the requirements of the condition with blast design being small so as not to cause any impact on dwellings or bird breeding/roosting areas.
	determine appropriate weather data by taking measurements as soon as practicable prior to blasting and from the data shall predict whether air blast overpressure levels outside the project area are likely to be increased above the levels expected under prevailing weather conditions. The data shall be recorded by the Applicant as part of its monitoring data;		Yes	Meteorological station has been installed in the permanent location on the mine lease and results are available continuously on the mine site computer system.  Meteorological conditions at the time of blasting are taken into account using the on site meteorological station data to address the requirements of this condition.
	not blast if the predictions in sub-clause (iii) herein indicate that air blast overpressure levels are likely to be exceeded at dwellings not owned by the Applicant;		Yes	It was reported that the requirements of condition 8.4(b)(iii) are considered prior to each blast event.  Blast events have been delayed if lightning strikes or weather conditions are considered a safety hazard within a 50km radius of the mine site. Inversion effects have also caused a delay to blast events.
	monitor all blasts and record the overpressure and peak particle velocity at locations to be agreed by DECC and the DPI(Minerals);	Blast Management Plan - Section 5	Yes	Monitoring of all blasts has occurred at six monitoring locations approved in the Blast Management Plan by the DECC and DPI (Minerals).
	A summary of blast monitoring results shall be included in the AEMR.	2005 AEMR, 23 Mar 2006 2006 AEMR, Apr 2007 Draft 2007 AEMR, May 2008 Draft 2008 AEMR, Mar 2009	Yes	<u>May 2008</u> The blast monitoring results have been reported in the Draft 2007 AEMR. <u>April 2009</u> The blast monitoring results have been reported in the Draft 2008 AEMR.
<b>8.5</b>	<b>Fauna and Flora Monitoring</b>			
	The Applicant shall monitor the effectiveness of measures outlined in the fauna management plan and Threatened Species Protocol (condition 3.4). A summary of monitoring results shall be included in the AEMR.	Flora and Fauna Management Plan Oct 2003 2006 AEMR, Apr 2007 Vegetation Clearance Protocol Implementation Report, Sep 2005	Yes	The management of flora and fauna under the Flora and Fauna Management Plan and the Threatened Species Protocol were reported in the 2006 AEMR. Vegetation clearance activities, weed and pest management and flora monitoring have also been undertaken in accordance with the FFMP.

		Draft 2007 AEMR, May 2008 Draft 2008 AEMR, March 2009		<p><u>May 2008</u></p> <p>The management of flora and fauna under the Flora and Fauna Management Plan and the Threatened Species Protocol is reported in the Draft 2007 AEMR.</p> <p><u>April 2009</u></p> <p>Flora and fauna management is reported in the draft AEMR 2008 in section 3.7 and 3.8.</p>
<b>8.6</b>	<b>Cultural Heritage Monitoring</b>			
	The Applicant shall monitor the effectiveness of measures outlined in the archaeology and heritage management plan (condition 3.3). A summary of monitoring results shall be included in the AEMR.	<p>Indigenous Archaeology and Cultural Heritage Management Plan 2005 AEMR, submitted 23 Mar 2006</p> <p>2006 AEMR, Apr 2007</p> <p>Draft 2007 AEMR, May 2008</p> <p>Draft 2008 AEMR, March 2009</p> <p>Letter from Bland Shire Council re Heritage Advisors Report, 6 March 2009</p>	Yes	<p>The management of aboriginal and European heritage items is reported in the 2006 AEMR. Management occurring between June 2006 and April 2007 was discussed with the Barrick Environmental staff. No non-compliance issues were reported in the AEMR.</p> <p><u>May 2008</u></p> <p>The activities related to heritage surveys and management of aboriginal heritage items is reported in the draft 2007 AEMR in section 3.13.</p> <p><u>April 2009</u></p> <p>The activities related to Aboriginal heritage surveys and management of aboriginal heritage items is reported in the draft 2008 AEMR in section 3.13 and European Heritage in section 3.14.</p> <p>Bland Shire Council provided information from their Heritage Advisor in relation to the interpretative display format for the relics and building artefacts from the Lake Cowal Station homestead and outbuildings.</p>
<b>8.7</b>	<b>Community Consultative Committee</b>			
	<b>Community Environmental Monitoring and Consultative Committee (CEMCC)</b>			
	The Applicant shall: establish a Community Environmental Monitoring and Consultative Committee and ensure that the first meeting is held before the commencement of construction works. Selection of representatives shall be agreed by the Director-General and the appointment of an independent Chairperson shall be to the satisfaction of the Director-General in consultation with the Applicant and BSC. The Committee shall comprise two (2) representatives of the Applicant (including the Environmental Officer), one (1) representative of BSC, one (1) representative of the Lake Cowal Environmental Trust (but not a Trust representative of the Applicant), four community representatives (including one member of the Lake Cowal Landholders Association), to monitor compliance with conditions of this consent and other matters relevant to the operation of the mine	<p>Charter of the CEMCC</p> <p>CEMCC Minutes 6 Jun 2007</p> <p>CEMCC Minutes 5 Sep 2007</p> <p>CEMCC Minutes 5 Dec 2007</p> <p>CEMCC Minutes 5 Mar 2008</p> <p>CEMCC Minutes 4 June 2008</p> <p>CEMCC Minutes 3 Sep 2008</p> <p>CEMCC Minutes 3 Dec 2008</p> <p>CEMCC Minutes Mar 2009</p>	Yes	<p>A community environmental monitoring and consultative committee (CEMCC) was established and the inaugural meeting of the CEMCC occurred on 15 Oct 2003. The meeting minutes are made available at Bland Shire Council library for inspection.</p> <p><u>May 2008</u></p> <p>Quarterly meetings of the CEMCC have been in March, June, September and December held since 2004.</p> <p><u>April 2009</u></p> <p>Quarterly meetings of the CEMCC occurred in March, June, September and December 2008 and March 2009.</p>



	during the term of the consent. Representatives from relevant government agencies (including DoP) may be invited to attend meetings as required by the Chairperson. The Committee may make comments and recommendations about the implementation of the development and environmental management plans. The Applicant shall ensure that the Committee has access to the necessary plans for such purposes. The Applicant shall consider the recommendations and comments of the Committee and provide a response to the Committee and Director-General.			
	The Applicant shall, at its own expense: nominate two (2) representatives to attend all meetings of the Committee; provide to the Committee regular information on the progress of work and monitoring results; promptly provide to the Committee such other information as the Chair of the Committee may reasonably request concerning the environmental performance of the development; provide access for site inspections by the Committee; provide meeting facilities for the Committee, and take minutes of Committee meetings. These minutes shall be available for public inspection at BSC within 14 days of the meeting.		Yes	Minutes of the meetings are provided to the Committee members and are made available for public inspection at the BSC library. <a href="#">April 2009</a> The current Committee consists of: Independent Chair: Margaret McDonald-Hill Community Members: A Stitt, B Pokoney, G Shaw, K Stockman, C O'Brien Lake Cowal Foundation: David Mitchell Bland Shire Council: Tony Lord (BSC Mayor), Phil Marshall Lachlan Shire Council: Raymond Shields Lake Cowal Landowners Assn: Bruce Dent Wiradjuri Condobolin Corporation: Ally Coe/Percy Knight Barrick: Garry Pearson, Allison Brown, Bill Shallvey
	(iii) The Applicant shall establish a trust fund to be managed by the Chair of the Committee to facilitate the functioning of the Committee, and pay \$2000 per annum to the fund for the duration of gold processing operations. The annual payment shall be indexed according to the Consumer Price Index (CPI) at the time of payment. The first payment shall be made by the date of the first Committee meeting. The Applicant shall also contribute to the Trust Fund reasonable funds for payment of the independent Chairperson, to the satisfaction of the Director-General.		Yes	Barrick has paid \$2000 annually (plus CPI) to Bland Shire Council, to be held in trust for the purpose of the CEMCC.

	(ix) By year 5 of mining operations the Applicant shall, in consultation with CEMCC, identify and discuss post mining issues, particularly in relation to reduced employment and consequent impacts on West Wyalong, and develop a plan for the phase out of the mine workforce. The plan will be reviewed during the year of mining operations following the scale down of the year 8 mining operation workforce. The impacts of the year 8 scale down shall be monitored by the Applicant and results used in planning for full mine closure.		Noted	
	(x) The Applicant shall, in consultation with the CEMCC, develop appropriate strategies to support activities which promote special interest tourism related to the co-existence of mining and the Lake Cowal environment.		Yes	Barrick have supported the Lake Cowal Foundation and preparation of a brochures highlighting the activities of the Foundation in conservation, sustainable farming, education and research project for the area (refer to section 3 of this report under Flora and Fauna Management Plan).  CGP provides the community and visitors with an overview of the project and the Lake Cowal environment, and Cowal Update News is distributed to neighbours, communities and stakeholder groups.
<b>8.8</b>	<b>Third Party Monitoring/Auditing</b>			
	(a) An Independent Environmental Audit shall be completed: <ul style="list-style-type: none"> <li>• six monthly during construction;</li> <li>• 12 months after commencement of ore processing;</li> <li>• then every three years thereafter until decommissioning of the mine and ore processing operations respectively, or as otherwise directed by the Director-General.</li> </ul>	<p>Independent Environmental Audit, Trevor Brown &amp; Associates, May 2007</p> <p>Independent Environmental Audit, Trevor Brown &amp; Associates, May 2008</p>	Yes	<p>The Independent Environmental Audit of the CGP, 12 months after the commencement of ore processing was conducted on 16-20 April 2007.</p> <p><u>May 2008</u></p> <p>The Independent Environmental Audit of the CGP conducted between 28 April and 2 May 2008 was at the request of Barrick, to meet the recommendation of the IMP.</p> <p><u>April 2009</u></p> <p>This current Independent Environmental Audit of the CGP, was conducted between 29 March and 2 April 2009.</p>
	The Applicant shall conduct an environmental audit of the mining and infrastructure areas of the development in accordance with ISO 14010 - Guidelines and General Principles for Environmental Auditing, and ISO 14011 - Procedures for Environmental Auditing (or the current versions), and in accordance with any specifications required by the Director-General. Copies of the report shall be submitted by the Applicant to the Director-General, BSC, DECC, DWE, DPI(Minerals), and CEMCC within two weeks of the report's completion for comment.	<p>Letters to Director-General, DNR,DEC, DP, BSC, CEMCC re Independent Audit Report, 11 August 2006</p> <p>Independent Environmental Audit Report, May 2007</p> <p>Independent Environmental Audit Report, May 2008</p>	Yes	<p>A copy of the Independent Environmental Audits conducted were submitted to the Director-General, BSC, DECC, DLWC, DPI (Minerals), and CEMCC and attached as an appendix to the AEMR.</p> <p><u>April 2009</u></p> <p>The 2008 Independent Environmental Audit Report was submitted to the Director-General, BSC, DECC, DLWC, DPI (Minerals), and CEMCC on 26 June 2008.</p>

<p>(i) The audit shall:</p> <p>a. assess compliance with the requirements of this consent, licences and approvals;</p> <p>b. in the event of any non-compliance, report on the effectiveness of the environmental management of the mine as it may relate to the area of non-compliance;</p> <p>c. be carried out at the Applicant's expense; and</p> <p>d. be conducted by a duly qualified independent person or team approved by the Director-General in consultation with BSC and CEMCC.</p>	<p>Letter from Barrick to DoP re Independent Environmental Audit Report, 31 January 2006</p> <p>Letter from Barrick to DoP re Independent Environmental Audit Report, 11 August 2006</p>	<p>Yes</p>	<p>Consultation was held with the CEMCC and BSC in relation to the acceptance of the nominated auditors Trevor Brown and Bob Drury.</p>
<p>(ii) The Director-General may, after considering any submission made by the relevant government agencies, BSC and CEMCC on the report, notify the Applicant of any requirements with regard to any recommendations in the report. The Applicant shall comply with those reasonable requirements within such time as the Director-General may require.</p>		<p>Noted</p>	
<p><b>(b) Independent Monitoring Panel</b></p>			
<p>(i) The Applicant shall at its own cost establish an Independent Monitoring Panel prior to commencement of construction. The Applicant shall contribute \$30,000 per annum for the functioning of the Panel, unless otherwise agreed by the Director-General. The annual payment shall be indexed according to the Consumer Price Index (CPI) at the time of payment. The first payment shall be paid by the date of commencement of construction and annually thereafter. Selection of the Panel representatives shall be agreed by the Director-General in consultation with relevant government agencies and the CEMCC. The Panel shall at least comprise two duly qualified independent environmental scientists and a representative of the D-G.</p>	<p>Letter from DoP re Annual IMP Report, 6 July 2006</p> <p>Third Independent Monitoring Panel Report, August 2007</p> <p>Fourth Independent Monitoring Panel Report, October 2008</p>	<p>Yes</p>	<p>The independent monitoring panel was established by Barrick with two independent environmental scientists nominated by the Director-General, after consultation with relevant Government agencies/CEMCC.</p> <p>Nominated members for the IMP in 2003 were:</p> <p>Mr Allen Kearns Deputy CSIRO Sustainable Ecosystems Prof. Clive Bell, Executive Director Australian Centre for Mining Environmental Research.</p> <p>Barrick deposited \$30,000 (plus CPI) annually into a special account for the functioning of the panel into the Independent Panel Monitoring Trust.</p> <p><u>May 2008</u></p> <p>The Third Independent Monitoring Panel Report was submitted to Barrick in August 2007.</p> <p><u>April 2009</u></p> <p>Dr Craig Miller CSIRO replaced Allen Kearns in 2008.</p> <p>The Fourth Independent Monitoring Panel Report was submitted to Barrick in October 2008.</p>

	<p>(ii) The panel shall:</p> <p>a. provide an overview of the independent audits required by condition 8.9 above;</p> <p>b. regularly review all environmental monitoring procedures undertaken by the Applicant, and monitoring results; and</p> <p>c. provide an Annual State of the Environment Report for Lake Cowal with particular reference to the on-going interaction between the mine and the Lake and any requirements of the Director-General. The first report shall be prepared one year after commencement of construction. The report shall be prepared annually thereafter unless otherwise directed by the Director-General. Copies of the report shall be provided to those parties which receive the AEMR (condition 9.2) and shall be made publicly available at Bland Shire Council within two weeks of the report's completion.</p>	<p>Letter to DoP, DPI, DEC, DSC, BSC and CEMCC re Submission of Second Independent Monitoring Panel Report, 2006</p> <p><b>Third Independent Monitoring Panel Report, August 2007</b></p> <p><b>Fourth Independent Monitoring Panel Report, October 2008</b></p> <p><b>Letter to DoP, DPI-Minerals, DWE, DECC, DSC, BSC and CEMCC re Independent Monitoring Panel Report, 20 Nov 2008.</b></p>	Noted	<p><b>May 2008</b></p> <p>The Third Independent Monitoring Panel Report was presented in August 2007. The report had seven (7) recommendations that Barrick responded to on 29 April 08.</p> <p><b>April 2009</b></p> <p>The Fourth Independent Monitoring Panel Report was presented to Barrick in October 2008. The Report presented four (4) recommendations:</p> <ul style="list-style-type: none"> <li>CGM immediately prepare a revised Operations Monitoring Program;</li> <li>Routine monitoring of waste rock pile runoff/seepage, geochemical infill and geochemical changes within the waste emplacements be undertaken;</li> <li>Erosion control and restoration strategies for the Lake Protection Bund, waste rock emplacements and tailings storage facilities be reviewed; and'</li> <li>Analysis of Metals in dust samples be reviewed.</li> </ul> <p>Barrick responded to the recommendations and submitted the response to DoP in March 2009.</p>
<b>9</b>	<b>REPORTING</b>			
<b>9.1</b>	<b>Reports on Operations</b>			
	<p>The Applicant shall report on mine operations in accordance with the mine operations plan (condition 2.1).</p>	<p>Cowal Gold Project 2005-2007 Mining Operations Plan, March 2005</p> <p>Letter from DMR re Mining Operations Plan – meets the Dept's requirements, 18 Mar 05</p> <p>MOP Jun 2007 to Jun 2009, Jun 07</p> <p>MOP March 2009-Dec 2010, Mar 09</p>	Noted	<p>The Mining Operations Plan 2005-2007 was submitted and accepted by the DPI in March 2005.</p> <p>A new MoP was being prepared at the time of the April 2007 audit for submission to DPI prior to June 2007.</p> <p><b>May 2008</b></p> <p>Barrick submitted the MOP for June 2007 to June 2009 to DPI (Minerals) in May 2007.</p> <p><b>April 2009</b></p> <p>The MOP for 2009-2010 was submitted to DPI-Minerals on 31 March 2009.</p>
<b>9.2</b>	<b>Environmental Reporting</b>			
	<b>Annual Environmental Management Report (AEMR)</b>		Yes	

<p>(i) The Applicant shall, throughout the life of the mine and for a period of at least five years after the completion of ore processing operations, prepare and submit an Annual Environmental Management Report (AEMR) to the D-G. The AEMR shall review the performance of the mine against the environmental management plans (refer condition 3.2), MOP (refer condition 2.1), the conditions of this consent, and other licences and approvals relating to the mine. To enable ready comparison with EIS predictions, diagrams and tables, the report shall include, but not be limited to, the following matters:</p>	<p>2005 AEMR, submitted 23 Mar 2006                  2006 AEMR, Apr 2007  <b>Draft 2007 AEMR, May 2008</b>                  Letter to DoP requesting a Dealine Extension for the 2008 AEMR, 10 Feb 2009                  Letter from DoP re Deadline Extension for 2008 AEMR, 18 Feb 2009</p>		<p><u>May 2008</u>                  The 1<sup>st</sup> draft of the 2007 AEMR was made available to the auditors on the 30 April 2007.  <u>April 2009</u>                  Barrick requested an extension to the deadline for submission of the 2008 AEMR to 31 May 2009. The time extension was approved by DoP on 18 Feb 2009.                  A draft of the 2008 AEMR was provided to the auditors on 31 March 2009.</p>
<p>an annual compliance audit of the performance of the project against conditions of this consent and statutory approvals;                  a review of the effectiveness of the environmental management of the mine in terms of <b>DECC, DWE, DPI(Minerals), DPI (Fisheries)</b>, and BSC requirements;                  results of all environmental monitoring required under this consent or other approvals, which includes interpretation and discussion by a suitably qualified person;                  from results of fauna monitoring, records of any fauna deaths due to mine operations;                  a listing of any variations obtained to approvals applicable to the subject area during the previous year;                  the outcome of the water budget for the year and the quantity of water used from water storages and Bland Creek palaeochannel;                  rehabilitation report;                  environmental management targets and strategies.</p>	<p>AEMR 2003-2004                  2005 AEMR, 23 Mar 2006                  2006 AEMR, Apr 2007  <b>Draft 2007 AEMR, May 2008</b>                  Draft 2008 AEMR, 31 Mar 2009</p>	<p>Yes</p>	<p>The AEMR's prepared have addressed all the components of MCoA 9.2(i)(a)-(h).                  The AEMR for January to December 2005 was prepared in accordance with the requirements of the MCoA requirements and submitted in 23 March 2006, and the draft 2006 AEMR was made available to the auditors and would be available for submission to the Director-General in May 2007.  <u>May 2008</u>                  The 1<sup>st</sup> draft of the 2007 AEMR was made available to the auditors on the 30 April 2007.  <u>April 2009</u>                  A draft of the 2008 AEMR was provided to the auditors on 31 March 2009.</p>
<p>(ii) In preparing the AEMR, the Applicant shall:                  consult with the Director-General during preparation of each report for any additional requirements;                  comply with any requirements of the Director-General or other relevant government agency; and                  ensure that the first report is completed and submitted within twelve (12) months of this consent, or at a date determined by the Director-General in consultation with DMR.</p>		<p>Noted</p>	<p>No requirements have been received from the Director-General.</p>
<p>(iii) The Applicant shall ensure that copies of each AEMR are submitted at the same time to the Director-General, <b>DECC, DWE, DPI(Minerals)</b>, DSC, <b>DPI(Fisheries)</b>, the BSC and CEMCC, and be available for public information at the BSC within 14 days of submission to these authorities.</p>	<p>Letters to DNR, DEC (EPA and NPWS), DPI (Mineral and Petroleum and Fisheries), Dam Safety Committee, BSC, CEMCC re AEMR, 23 Mar 2006                  AEMR Meeting Cowal Gold Mine, 2 July 2008</p>	<p>Yes</p>	<p>Copies of the AEMR's have been submitted to each of the authorities listed in MCoA 9.3(iii).  <u>April 2009</u>                  Meeting held at Cowal Gold Project site re AEMR held on 2 July 2008 with presentation to DWE, DPI and DECC.</p>

<b>10</b>	<b>COMMUNITY CONSULTATION/OBLIGATIONS</b>			
<b>10.1</b>	<b>Community Consultation (including Aboriginal community)</b>			
	<p>(a) <u>Complaints</u></p> <p>The Environmental Officer (refer condition 3.1) shall be responsible for receiving complaints with respect to construction works and mine operations on a dedicated and publicly advertised telephone line, 24 hours per day 7 days per week, entering complaints or comments in an up to date log book, and ensuring that a response is provided to the complainant within 24 hours; and providing a report of complaints received every six months throughout the life of the project to the Director-General, BSC, DECC, DPI(Minerals), and CEMCC, or as otherwise agreed by the Director-General. A summary of this report shall be included in the AEMR (condition 9.2(a)).</p>	<p>Letter to DoP re Complaints Register, 16 Jan 2006</p> <p>Complaints Register 13 January to 20 June 2006</p> <p>Letter to DoP, DEC, CEMCC and DPI re Complaints Register, 17 July 2006</p> <p>Letter to DoP, DEC, CEMCC and DPI re Complaints Register, 16 January 2007</p> <p>Letter to DoP, DECC, CEMCC, and DPI (Minerals) re Complaints Register, 10, Jul 2007 and Jan 2008</p> <p>Letter to DoP, DPI-Minerals, DECC, BSC and CEMCC re Complaints Register, 4 Jan 2009</p>	Yes	<p><u>May 2008</u></p> <p>No complaints were received for the period January to July 2007. Seven complaints were received for the period July 2007 to March 2008, of which two (2) were related to light scatter from the mine site and one (1) due to noise from the tailings dam area. The light issues were fixed immediately by moving the offending light sources.</p> <p>A complaint was received from the Westlea property owner (Mr Greg Davies) regarding noise emissions from the CGP activities. Response involved Heggies conducting noise monitoring at the property. Action by Barrick resulted in rescheduling of the STSF wall lift works.</p> <p><u>April 2009</u></p> <p>Three complaints were received between July 2008 and January 2009. Two complaints were associated with matters in West Wyalong related to employees sitting on a fence while waiting for the Work Bus and employees accommodation issues. The third complaint was related to a lack of firebreak along Bonehams Lane pasture rehabilitation easement (that was inspected by the RFS) and general issues with the mine (that are being addressed and monitored in the 6-monthly noise and traffic surveys).</p> <p>February 2009 complaint re vehicles speeding on unsealed roads off the mine site area. Employees were notified of speed restrictions and approved access roads to the CGP.</p>
<b>11.</b>	<b>PROPOSERS OBLIGATIONS</b>			
	<i>Area of Affection - Land Acquisition (including resolution of disputes)</i>			<b>These conditions have not been activated.</b>
<b>12.</b>	<b>FURTHER APPROVALS AND AGREEMENTS</b>			
<b>12.1</b>	<b>Statutory Requirements</b>			
	<p>The Applicant shall ensure that all statutory requirements including but not restricted to those set down by the Local Government Act 1993, Pollution Control Act 1970, Clean Air Act 1961, Clean Water Act 1970, Noise Control Act 1975, Protection of the Environment Administration Act 1991, Protection of the Environment Operations Act 1997, National Parks and Wildlife Act 1974, and all other relevant legislation, Regulations, Australian Standards, Codes, Guidelines and Notices, Conditions, Directions, Notices and Requirements issued pursuant to statutory powers by the BSC, DECC, DPI (Minerals), DSC, DWE, RTA, DPI (Agriculture), DPI (Fisheries), and RAC, are fully met.</p>		Noted	<p>Barrick has obtained approvals etc under the relevant statutory requirements for the CGP including:</p> <p>Environment Protection Licence No. 11912 (EPA)</p> <p>Mining Lease No. 5135 (DMR)</p> <p>Section 87 Permits No. 1361, 1648 &amp; 1681 (NPWS)</p> <p>Section 90 Consents to Destroy No. 1467 &amp; 1680 (NPWS)</p> <p>Part 3A Permits No.703A01055 &amp; 703A010056 (DLWC)</p> <p>Bore Licence Certificates (DLWC)</p> <p>Enclosure Permit No. 353669 (DLWC)</p>


## **ATTACHMENT B ENVIRONMENT PROTECTION LICENCE**

**ATTACHMENT B - ENVIRONMENT PROTECTION LICENCE NO. 11912**

EPL No.	EPL Condition	Audit Evidence	Compliance	Comments
	Premises includes the land defined by ML 1535.		Yes	Noted
A4.2	For the purposes of condition A4.1, the licence application includes: 1) Development Consent Cowal Project 2) Cowal Gold Project EIS 3) List of Initial development activities associated with the construction of the Cowal Gold Project. 4) Cowal Gold Project – SIS			Noted
<b>Discharges to air and water and applications to land</b>				
P1.1	The following points referred to in the table are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.	<ul style="list-style-type: none"> <li>• <b>MP-5 database CGP Environment Department</b></li> <li>• <b>Quarterly Monitoring Reports to DECC</b></li> <li>• <b>AEMR Reports</b></li> </ul>	Yes	The dust deposition and high volume sampler monitoring program has continued in accordance with the requirements of the EPL conditions.
P1.2	The points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.	<ul style="list-style-type: none"> <li>• Quarterly Monitoring Reports</li> <li>• CGP Site Rainfall Records</li> <li>• Surface Water Event Monitoring Field Sheets (for rainfall events of 20mm or greater).</li> <li>• AEMR 2005</li> <li>• AEMR 2006 (draft)</li> <li>• <b>Draft 2007 AEMR, May 2008</b></li> <li>• <b>Draft 2008 AEMR, March 2009</b></li> </ul>	Yes	Groundwater monitoring has been conducted from the piezometers locations listed in P1.2 in accordance with the EPL requirements.  Surface water samples were collected from the onsite ponds following trigger rainfall events. <b>May 2008</b>  Surface water samples were collected from the onsite ponds following trigger rainfall events in May, September, and December 2007, and January and February 2008. <b>April 2009</b>  Surface water samples were collected from the onsite ponds following trigger rainfall events in May, and June 2008, and February 2009.
P1.3	The following utilisation areas referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.		Noted	
<b>P2 Weather monitoring</b>				
P2.1	The point in the table is identified in this licence for the purposes of the monitoring of weather parameters.	Blast Management Plan Figure 1	Yes	The meteorological station is located in accordance with the Blast Management Plan and provides 15-minute data for each parameter that is downloaded daily to the CGP computer system (refer to



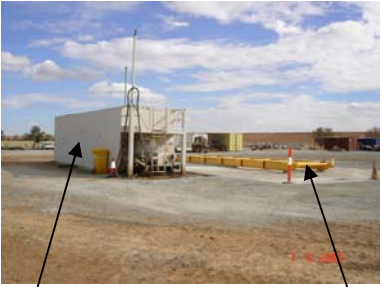
				comments and photos in condition M8).
<b>3 Limit conditions Variation 17 January 2006</b>				
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.		Noted	
L3.1	For each monitoring/discharge point or utilisation area specified in the tables the concentration of a pollutant discharged at that point or applied to the area, must not exceed the concentration limits specified for that pollutant in the table.		Noted	
L3.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.		Noted	
L3.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.		Noted	
	Points 46 and 47 – CN <sub>WAD</sub> 20mg/L (90percentile); 30mg/L (100 percentile concentration limit).	<ul style="list-style-type: none"> <li>• Letter from DPI-Minerals re Approval of Picric Acid Methodology for Cyanide, 8 Dec 2006</li> <li>• Letter from DEC re amendments to the Cyanide Monitoring Program, 17 Jan 2007</li> <li>• Letter to DECC re Cyanide Monitoring, monthly 2007-08</li> <li>• Letters to DECC re Monthly Cyanide Monitoring Results, Jun 2008 to March 2009</li> </ul>	Yes	<p>Monitoring of the discharge to the STSF has been conducted twice daily since the commencement of discharge of tailings in May 2006. The results of the cyanide monitoring have been &lt; 20mg CN<sub>WAD</sub>/L (90 percentile) since April 2006.</p> <p>No CN<sub>WAD</sub> results exceeded the 30mg CN<sub>WAD</sub>/L.</p> <p>The cyanide results are reported to the DEC on a monthly basis and in the draft 2006 AEMR. DEC agreed to use of the picric acid method for CN<sub>WAD</sub> analysis at the site, with offsite confirmation of results.</p> <p><u>May 2008</u></p> <p>Monthly cyanide monitoring results are provided to DECC reporting CN<sub>WAD</sub> data. No CN<sub>WAD</sub> results exceeded the 20mg CN<sub>WAD</sub> /L or 30mg CN<sub>WAD</sub> /L criteria during the June 2007 to May 2008 period.</p> <p><u>April 2009</u></p> <p>Monthly cyanide monitoring results are provided to DECC, reporting CN<sub>WAD</sub> data. No CN<sub>WAD</sub> results exceeded the 20mg CN<sub>WAD</sub> /L or 30mg CN<sub>WAD</sub> /L criteria during the June 2008 to March 2009 period.</p>
<b>Waste</b>				
L5.1	The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing,		Yes	No waste material is received onto the CGP site.

	reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.			
L5.2	For the purposes of condition L5.1: (a) Effluent, waste rock and tailings generated at the premises are not defined as "waste".		Noted	
	(b) Waste generated at the premises described in Attachment A 'Cowal Gold Project Proposed Bioremediation Facility' of the licence variation application supplementary material received by DECC on 16 June 2008 and classified as general solid waste (putrescible) in accordance with the <i>Waste Classification Guidelines</i> (DECC, 2008) is permitted by this licence to be disposed of at the premises. Disposal of this waste must be undertaken in accordance with the methods described in Attachment A of the licence variation application supplementary material received by DECC on 16 June 2008, and the <i>Cowal Gold Project - Hazardous Waste and Chemical Management Plan</i> .	<p>Email to DECC/DPI-Minerals re Bioremediation Facility, 10 Dec 2008</p>  <p>CGP Bioremediation bed – contaminated soil being mixed with straw to promote biological breakdown of hydrocarbons, prior to placing in the remediation beds.</p>	Yes	<p><u>April 2008</u></p> <p>The location co-ordinates and layout plans for the on-site bioremediation treatment area were provided to DECC/DPI-Minerals in December 2008 following Cultural Clearance of the proposed area at the end of November 2008.</p>
	(c) Waste generated at the premises described in Attachment B 'Cowal Gold Project Proposed Trash Screen Oversize Waste Management' of the licence variation application supplementary material received by DECC on 16 June 2008 and classified as general solid waste (putrescible) in accordance with the <i>Waste Classification Guidelines</i> (DECC, 2008) is permitted by this licence to be disposed of at the premises. Disposal of this waste must be undertaken in accordance with the methods described in Attachment B of the licence variation application supplementary material received by DECC on 16 June 2008, and the <i>Cowal Gold Project - Hazardous Waste &amp; Chemical Management Plan</i> .		Yes	
	(d) Waste generated at the premises described in Attachment D 'Cowal Gold Project Proposed On-site Waste Management' of the licence variation application supplementary material received by DECC on 16 June 2008 and classified as general solid waste (putrescible) and/or general solid		Yes	

	<p>waste (non-putrescible) in accordance with the <i>Waste Classification Guidelines</i> (DECC, 2008) is permitted by this licence to be disposed of at the premises.</p> <p>Disposal of this waste must be undertaken in accordance with the conditions of this licence and within the waste rock emplacements only.</p>			
<b>Noise Limits</b>				
L6.1	<p><b>L6.1 Noise from the premises must not exceed:</b></p> <p>(a) 35 dB(A) LAeq(15 minute) during the day (7am to 6pm) Monday to Friday; and</p> <p>(b) 35 dB(A) LAeq(15 minute) during the evening (6pm to 10pm) Monday to Friday; and</p> <p>(c) at all other times 35 dB(A) LAeq (15 minute), except as expressly provided by this licence.</p> <p>Where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.</p>	<ul style="list-style-type: none"> <li>Noise Management Plan, November 2004</li> <li>Mine Operating Noise Monitoring, Heggies, January 2007</li> <li>Mine Operating Noise Monitoring, Heggies, July 2007</li> <li>Mine Operation Noise Monitoring Westlea Property, Heggies, September 2007</li> <li>Mine Operating Noise Monitoring, Heggies, January 2008</li> <li>Mine Operation Noise Monitoring, Heggies, July 2008</li> </ul>	Yes	<p><u>May 2008</u></p> <p>No noise complaints were received between June 2007 and May 2008 related to the operation of the processing plant.</p> <p>One complaint was received related to construction noise from the STSF works. Action on the complaint resulted in commencement of works after 0800hrs.</p> <p>Attended and unattended noise monitoring surveys are conducted by Heggies six monthly.</p> <p><u>April 2009</u></p> <p>Operator attended noise monitoring indicated that the LAeq criteria were met at all non-mined owned residential locations.</p>
L6.2	<p><b>L6.2 The noise emission limits identified in condition L6.1 apply when measured at, or computed for, any residence not owned by the licensee. A modifying factor correction must be applied for tonal, impulsive or intermittent noise in accordance with the "Environmental Noise Management – NSW Industrial Noise Policy (January 2000)".</b></p>	<ul style="list-style-type: none"> <li>Letter from DECC re Noise Monitoring Report -Jan 2007, 1 May 2007</li> <li>Cowal Gold Project Mine Noise Monitoring Report, Heggies, January 2007</li> <li>Cowal Gold Project Mine Noise Monitoring Report, Heggies, July 2007</li> <li>Cowal Gold Project Mine Operations and Traffic Noise Monitoring Report January 2008, Heggies, April 2008</li> <li>Mine Operating Noise Monitoring, Heggies, January 2008</li> <li>Mine Operation Noise Monitoring, Heggies, July 2008</li> </ul>	Yes	<p>Noise monitoring to assess compliance of the normal operations of the project with the EPL criteria was conducted by Heggies in July 2006 and January 2007.</p> <p><u>May 2008</u></p> <p>Six monthly Mine Operating Noise Monitoring was conducted by Heggies in July 2007 and January 2008.</p> <p><u>April 2009</u></p> <p>Six monthly Mine Operating Noise Monitoring was conducted by Heggies in January and July 2008 and January 2009.</p>
L6.3	<p><b>L6.3 The noise emission limits identified in condition L6.1 apply under meteorological conditions of:</b></p> <ul style="list-style-type: none"> <li>Wind speed up to 3 metres per second at 10 metres about ground level; or</li> <li>Temperature inversion conditions of up to 3°C/100 metres and wind speed up to 2 metres per second</li> </ul>		Noted	

	<b>at 10 metres above ground level.</b>			
<b>L7</b>	<b>Blasting Limits</b>			
L7.1	The overpressure level from blasting operations at the premises when measured at the locations defined in condition M7.1 must not exceed 120 dB (Lin Peak) at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	<ul style="list-style-type: none"> <li>• Blast Management Plan, August 2003</li> <li>• Review of Blast Monitoring Results, 2005, The Saros Group</li> <li>• Review of Blast Monitoring Results, 2006, The Saros Group</li> <li>• Review of Blast Monitoring Results, 2007, The Saros Group</li> <li>• Review of Blast Monitoring Report 2008, The Saros Group, Jan 2009</li> </ul>	Yes	Blasting that occurred from June 2006 to April 2007, did not indicate any exceedance of the 115dB (Lin peak) on any occasion at the fixed blast monitor locations at <i>Gumbaleh, Hillgrove or Coniston</i> residences or the breeding areas on Lake Cowal. <u>May 2008</u> No exceedance of the 115dB (Lin peak) was reported on any occasion at the fixed blast monitor locations at <i>Gumbaleh, Hillgrove or Coniston</i> residences or the breeding areas on Lake Cowal.
L7.2	The overpressure level from blasting operations at the premises when measured at the locations defined in condition M7.1 must not exceed 115 dB (Lin Peak) for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.		Yes	<u>April 2009</u> No exceedance of the 115dB (Lin peak) was reported on any occasion between June 2008 and March 2009 at the fixed blast monitor locations at <i>Gumbaleh, Hillgrove or Coniston</i> residences or the breeding areas on Lake Cowal during 2008.
L7.3	Ground vibration peak particle velocity from the blasting operations at the premises when measured at the locations defined in condition M7.1 must not exceed 10 mm/sec at any time. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	<ul style="list-style-type: none"> <li>• Blast Management Plan August 2003</li> <li>• Blasting Records CGP September to December 2005</li> <li>• Review of Blast Monitoring Results, 2007, The Saros Group</li> <li>• Review of Blast Monitoring Results 2008, The Saros Group, Jan 2009</li> </ul>	Yes	<u>May 2008</u> No blasts between June 2007 to May 2008 exceeded the ground vibration (ppv) criteria of 5mm/sec at any of the fixed monitor locations at <i>Gumbaleh, Hillgrove or Coniston</i> residences or the breeding areas on Lake Cowal.
L7.4	Ground vibration peak particle velocity from the blasting operations at the premises when measured at the locations defined in condition M7.1 must not exceed 5 mm/sec for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.		Yes	<u>April 2009</u> No blasts between June 2008 and March 2009 exceeded the ground vibration (ppv) criteria of 5mm/sec at any of the fixed monitor locations at <i>Gumbaleh, Hillgrove or Coniston</i> residences or the breeding areas on Lake Cowal.
<b>L8</b>	<b>Potentially Offensive Odour</b>			
L8.1	No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.		Yes	
<b>Operating conditions</b>				

O1	<b>Activities must be carried out in a competent manner</b>			
O1.1	Licensed activities must be carried out in a competent manner. This includes: (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.		Noted	
O2	<b>Maintenance of plant and equipment</b>			
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: (a) must be maintained in a proper and efficient condition; and (b) must be operated in a proper and efficient manner.		Noted	All blast monitoring equipment underwent maintenance and annual calibration by the Saros Group in February 2007.  The meteorological station equipment was checked, serviced and calibrated by Hydrodata in 2006. Downloading of data and calibration of the weather station was also conducted by Sentinel Pty Ltd in December 2006 and April 2007.  <u>May 2008</u> Blast monitoring equipment underwent maintenance and annual calibration by The Saros Group in February 2008.  <u>April 2009</u> Calibration of the meteorological station equipment occurred quarterly between May 2008 and April 2009. Sentinel Pty Ltd were on site calibrating the station on 31 March during this audit and the calibration activities were observed during the audit. (refer to M9.1)
O2.2	All persons associated with the licensee including employees, agents' licensee, contractors and subcontractors must be advised of their responsibilities and liabilities under the Protection of the Environment Operations Act 1997.	<ul style="list-style-type: none"> <li>• Barrick Induction Training package</li> <li>• Training Course Register for Barrick personnel – 2005</li> <li>• Training Course Summary for Barrick CGP – 22 Jun 2006</li> <li>• Environmental Awareness Handbook, Cowal Gold Project, Barrick</li> <li>• Oil and Chemical Spill Response Awareness Handbook, Cowal Gold Project, Barrick</li> </ul>	Yes	Training of Barrick personnel in the responsibilities and liabilities under the POEO Act was been conducted in 2006/2007.  <u>May 2008</u> An Environmental Awareness Handbook and Oil and Chemical Spill Response Awareness Handbook were prepared for the CGP and the introduction and implementation of the handbooks was provided to all mine and process plant staff during 2007-08.
<b>Bunding Requirements</b>				

<p>O3.1</p>	<p>All above ground storage facilities containing flammable and combustible liquids must be bunded in accordance with Australian Standard AS1940:2004.</p>	 <p>AGST to be placed on the skid on the concrete pad to contain any spillage of fuel.</p>	<p>NO</p>	<p>The old 'contractor's compound' bunded area was used for storage of segregated solid waste until the 3<sup>rd</sup> quarter 2007.</p> <p><u>May 2008</u></p> <p>The 'old' contractor's compound had been decommissioned and all solid and liquid waste removed for disposal. All waste is now managed by J R Richards in the new waste storage area near the main workshop area.</p> <p><u>April 2009</u></p> <p>The aboveground diesel storage facility in the contractor's area is a double skinned tank constructed to AS1692. This aboveground double skin diesel storage tank is not strictly compliant with clause 5.9.2 of AS 1940-2004, to the extent that it only has a front sump area with a capacity of 15 litres for collection of spillage or splash from fill and dispense hoses.</p> <p>The double skinned tank is to be placed on the concrete containment area (with a sump) to reduce potential for spillage of fuel to the ground during filling and vehicle refuelling. The ASTF is planned to be placed on the pad in May 2009.</p>
<p><b>Waste Rock Emplacements, Tailings Facilities and Water Storage Facilities</b></p>				
<p>O4.1</p>	<p>The waste rock emplacement areas and the perimeter waste emplacement must be located on a base drainage control zone with a minimum slope towards the open pit of 1 (vertical 1:200 (horizontal) and be designed to ensure all seepage from beneath the waste rock emplacement areas and the perimeter waste emplacement is directed towards the open pit.</p>	<ul style="list-style-type: none"> <li>Letter from DEC re Waste Rock Emplacements, 30 March 2005</li> </ul>	<p>Yes</p>	<p>The northern waste emplacement area has been established and any seepage from the emplacement areas is directed towards water storage.</p> <p><u>May 2008</u></p> <p>The waste storage areas have been extended and the Southern waste emplacement area cleared of vegetation and prepared for topsoil stripping and drainage control construction.</p> <p><u>April 2009</u></p> <p>The southern waste emplacement has been established on the area cleared of topsoil.</p>
<p>O4.2</p>	<p>The tailings storage facilities and contained water storage facilities must have a basal barrier or impermeable liner with an equivalent permeability of <math>1 \times 10^{-9}</math> metres per second over a thickness of 1 metre.</p>	<ul style="list-style-type: none"> <li>Permeability Test Report for Northern Tailings Storage Facility, URS 24 Nov 2004</li> <li>Permeability Test Report for Southern Tailings Storage Facility, URS 11 Jan 2006</li> <li>Northern Tailings Storage Facility 2008 Surveillance Report, URS, March 2008</li> </ul>	<p>Yes</p>	<p><u>May 2008</u></p> <p>A Surveillance report was produced by URS for the NSTF in accordance with the Dams Safety Committee requirements for a High C category TSF. The report concluded that the NSTF performed in accordance with the design expectations during the Stage 1 filling.</p>



		<ul style="list-style-type: none"> <li>Letter from Dam Safety Committee re STSF, February 2009</li> </ul>		<p><u>April 2009</u></p> <p>Stage 2 STSF construction is complete and Stage 2 lift on the NTSF commenced. Dam Safety Committee provided a response to the Construction Report in January 2009 advising that their review satisfies the Committee's requirements.</p>
<b>O5</b>	<b>Dust</b>			
O5.1	Activities occurring in or on the premises must be carried out in a manner that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.		Noted	
<b>5</b>	<b>Monitoring and recording conditions</b>			
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	<ul style="list-style-type: none"> <li>Environmental Management File 5.09 - Monitoring</li> </ul>	Noted	
M1.2	All records required to be kept by this licence must be: (a) in a legible form, or in a form that can readily be reduced to a legible form; (b) kept for at least 4 years after the monitoring or event to which they relate took place; and (c) produced in a legible form to any authorised officer of the EPA who asks to see them.	<ul style="list-style-type: none"> <li>Environmental Management File 5.09 - Monitoring</li> <li>EQWin Database</li> <li>MR5 database</li> </ul>	Yes	<p>All monitoring data is entered into EQWin and retained for reporting and filing. Data from EQWin is used to generate the quarterly reports on monitoring for the DEC, DoP and DPI.</p> <p><u>May 2008</u></p> <p>The environmental monitoring data is now recorded into the MP-5 database that provides for easier production of reports and was reported to be more user friendly than EQWin previously used.</p>
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: (a) the date(s) on which the sample was taken; (b) the time(s) at which the sample was collected; (c) the point at which the sample was taken; and (d) the name of the person who collected the sample.	<ul style="list-style-type: none"> <li>EQWin Database</li> <li>MP-5 database</li> </ul>	Yes	<p>All monitoring data collected by CGP to meet the requirements of the EPL is entered into a computerised database (EQWin) and includes all information required by this condition.</p> <p><u>May 2008</u></p> <p>The monitoring data collected for the CGP is now entered onto the MP-5 database and contains the required information to comply with condition 1.3.</p>
<b>M2</b>	<b>Requirement to monitor concentration of pollutants discharged</b>			
M2.1	For each monitoring/discharge point or utilisation area specified (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns.	<p>Monthly Weather Station Reports, May 2008 to March 2009, Sentinel Pty Ltd</p>	Yes	<p>Monitoring of locations and parameters specified in the licence conditions has been implemented for the operational phase of the project where or when water or flow occurs (the drought conditions have resulted in Lake Cowal being dry and stormwater runoff from the mining lease area had not occurred since June/July 2006).</p>

	<p>For the purposes of the table(s) above Special Frequency 1 means the collection of samples weekly and following rainfall events of 20mm or greater in a 24 hour period.</p> <p>For the purposes of the table(s) Special Frequency 2 means the collection of samples once per month prior to the waste being disposed within the waste rock emplacements.</p>			<p><u>May 2008</u></p> <p>The monitoring conducted is in compliance with the requirements of the EPL where practicable. Lake Cowal is still dry and the drought conditions have limited the surface water monitoring to events when rainfall occurred.</p> <p>Rainfall events that triggered surface water monitoring (&gt;20mm/24hrs) occurred on 18 May 2007, 29 September 2007, 22 December 2007, 16 January 2008, 4 February and 12 February 2008.</p> <p><u>April 2009</u></p> <p>Surface water samples were collected from the onsite ponds following trigger rainfall events (i.e &gt;20mm/24hrs) in May, and June 2008, and February 2009.</p>
M3	<b>Testing methods - concentration limits</b>			
M3.1	<p>Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:</p> <p>(a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or</p> <p>(b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or</p> <p>(c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.</p>		Yes	<p>Analysis for air quality is carried out by Australian Laboratory Services (ALS), a NATA registered laboratory, for analysis of all the parameters required to be tested by the CGP to meet regulatory requirements.</p> <p><u>May 2008</u></p> <p>Ecowise Environmental Pty Ltd were contracted to supply a high volume air sampler and analysis of the TSP, total aluminium, copper and zinc, for the CGP. University of Sydney report on the mass and elemental composition from the monitoring at CGP.</p> <p><u>April 2009</u></p> <p>Ecowise Environmental Pty Ltd supply hi-vol air sampler and analysis of the TSP, total aluminium, copper and zinc, for the CGP. University of Sydney report on the mass and elemental composition from the monitoring at CGP.</p>
M3.2	<p>Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA before any tests are conducted.</p>		Yes	<p>Analysis of waters is carried out by Australian Laboratory Services (ALS), a NATA registered laboratory for analysis of the parameters required to be tested by the CGP to meet regulatory requirements.</p> <p><u>April 2009</u></p> <p>Analysis of waters is carried out by NATA registered laboratories, for analysis of the parameters required to be tested by the CGP to meet regulatory</p>



				requirements.
<b>M4</b>	<b>Recording of pollution complaints</b>			
M4.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.		Yes	A complaints register is maintained by Barrick in accordance with the condition and responses to the complainants are also recorded.
M4.2	<p>The record must include details of the following:</p> <p>(a) the date and time of the complaint;</p> <p>(b) the method by which the complaint was made;</p> <p>(c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;</p> <p>(d) the nature of the complaint;</p> <p>(e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and</p> <p>(f) if no action was taken by the licensee, the reasons why no action was taken.</p>	<ul style="list-style-type: none"> <li>• Fax to DEC – Incident Report on Dust Complaints, 2 Jul 2004</li> <li>• Community Complaints Line Register, June to December 2006</li> <li>• Letter to DoP, DECC, CEMCC, and DPI (Minerals) re Complaints Register, 10, July 2007 and January 2008</li> <li>• Letter to DoP, DPI, DECC, BSC and CEMCC re Complaints Register, 4 Jan 2009</li> </ul>	Yes	<p>The complaints register is maintained by Barrick in accordance with the condition M4.1 and responses to the complainants are also recorded.</p> <p>A summary of the Complaints is submitted to the relevant authorities each 6 months and a summary included in the 2006 AEMR.</p> <p><u>May 2008</u></p> <p>A summary of the Complaints received is presented in the AEMR and a summary letter was submitted to the relevant authorities each 6 months.</p> <p>No complaints were received for the period January to July 2007. Seven complaints were received for the period July 2007 to March 2008, of which two (2) were related to light scatter from the mine site and one (1) due to noise from the tailings dam area. The light issues were fixed immediately by moving the offending light sources. The noise complaint was received related to construction noise from the STSF works. Action on the complaint resulted in commencement of works after 0800hrs.</p> <p><u>April 2009</u></p> <p>Three complaints were received between July 2008 and January 2009. Two complaints were associated with matters in West Wyalong related to employees sitting on a fence while waiting for the Work Bus and employee's accommodation issues. The third complaint was related to a lack of firebreak along Bonehams Lane pasture rehabilitation easement. The firebreak was inspected by the RFS and found to be adequate.</p> <p>February 2009 complaint re vehicles speeding on unsealed roads off the mine site area. Employees were notified of speed restrictions and approved access roads to the CGP.</p>
M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.		Yes	All complaints received by Barrick are retained on the site computer system Complaints Register.

M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.		Noted	
<b>Telephone complaints line</b>				
M5.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.		Yes	The complaints and concerns telephone line (02 6975 3454) was established on 9 December 2003.
M5.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.		Yes	The complaints line was advertised on Friday 12 December 2003 and Tuesday 16 December 2003 in the West Wyalong Advocate.  The complaints line is now advertised in the West Wyalong Advocate on a regular basis.
M5.3	Conditions M5.1 and M5.2 do not apply until 3 months after: (a) the date of the issue of this licence or (b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.		Noted	
M7	<b>Blasting monitoring</b>			
M7.1	To determine compliance with condition(s) L6.4L7.1, L7.2, L7.3 and L6.5L7.4: (a) Airblast overpressure and ground vibration levels must be measured at blast monitoring locations labeled as "BM01 (Point 8)", "BM02 (Point 9)", "BM03 (Point 10)", "BM04 (Point 41)" and "BM05 (Point 42) identified on " in Figure 2, 'Blast Monitoring Locations in report Sites' of the "Cowal Gold Project Blast Management Plan, Cowal Gold Project," dated Aug 2003 -- for all blasts carried out in or on the premises; and (a) b) Instrumentation used to measure the blast monitoring locations BM01 (Point 8), BM02 (Point 9), BM03 (Point 10), BM04 (Point 41) airblast over pressure and BM05 (Point 42) identified on Figure 2, Blast Monitoring Locations in report Blast Management Plan, Cowal Gold Project, Aug 2003ground vibration levels must meet the requirements of Australian Standard AS 2187.2 of 1993-2006.	<a href="#">Review of Blast Monitoring Results 2007, The Saros Group, February 2008</a>  <a href="#">Review of Blast Monitoring Results 2008, The Saros Group, February 2009</a>	Yes	Blast monitors have been installed at the approved locations for the measurement of air-blast overpressure and ground vibration levels in accordance with the Blast Management Plan. No levels were recorded in excess of the trigger levels for the monitors. The blast results did not exceed the overpressure limit of 115dB (Lin peak) or trigger the fixed location vibration monitors on any occasion during the June 2006 to April 2007 period. <a href="#">May 2008</a> No blast results exceeded the 115dB(lin) overpressure limit or triggered the fixed location vibration monitors on any occasion during the June 2007 to April 2008 period. <a href="#">April 2009</a> No blast results exceeded the 115dB(lin) over pressure limit or triggered the fixed location vibration monitors on any occasion during the May 2008 to April 2009 period.

M8	<b>Requirement to monitor weather</b>			
M9.1	<p>For each monitoring point specified in the table below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency.</p>  <p><b>CGP Meteorological Station</b></p>	<ul style="list-style-type: none"> <li>• Barrick Gold Lake Cowal Weather Station Report, Hydrodata, 7 Jun 2006</li> <li>• Download/Calibration of the Automatic Weather Station, Sentinel, 15 Dec 2006 &amp; 12 April 2007</li> </ul>  <p><b>Sentinel personnel calibrating the met station April 2009</b></p>	Yes	<p>Meteorological station installed adjacent to the TSR alignment and east of the southern tailings emplacement area with a rainfall gauge for continuous measurement, wind speed and direction at 10 metres, temperature measurement at 2 and 10 metres, and solar radiation sensors.</p> <p>The meteorological station equipment was checked, serviced and calibrated by Hydrodata in 2006. Downloading of data and calibration of the weather station was conducted by Sentinel Pty Ltd in December 2006 and April 2007.</p> <p><u>May 2008</u></p> <p>Calibration of the meteorological station equipment by Sentinel Pty Ltd occurred in July, September and December 2007 and is scheduled for 6 May 2008.</p> <p><u>April 2009</u></p> <p>Calibration of the meteorological station equipment occurred quarterly between May 2008 and April 2009. Sentinel Pty Ltd were calibrating the station on 31 March during this audit and the calibration activities were observed during the audit.</p> <p>The wind rose patterns reported for 2008 exhibited a lack of northerly wind patterns. Investigation of the wind direction data is to be undertaken by Sentinel for Barrick to ensure that the sensors are responding to all wind speeds and directions.</p>
<b>Reporting conditions</b>				
R1	<b>Annual return documents</b>			
R1.1	<p><b>What documents must an Annual Return contain?</b></p> <p>The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ul style="list-style-type: none"> <li>(a) a Statement of Compliance; and</li> <li>(b) a Monitoring and Complaints Summary.</li> </ul> <p>Before the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.</p>	<ul style="list-style-type: none"> <li>• EPA Annual Return 23 December 2005 to 22 December 2006, 20 February 2007</li> <li>• <b>Annual Return to DECC, 23 Dec 2006 to 22 Dec 2007, submitted 21 Feb 2008</b></li> <li>• <b>Annual Return to DECC, 23 Dec 2007 to 22 Dec 2008, submitted 19 Feb 2009</b></li> </ul>	Yes	<p>The 2006 Annual Return was prepared in the form provided by the DEC and was submitted to the DEC on 20 February 2007 in accordance with the condition.</p> <p><u>May 2008</u></p> <p>The 2007 Annual Return was prepared in the format provided by the DECC and was submitted to the DECC on 21 February 2008 in accordance with the condition.</p> <p><u>April 2009</u></p> <p>The 2008 Annual Return was prepared in the format provided by the DECC and was submitted to the DECC on 19 February 2009 in accordance with the</p>

				condition.
R1.2	<p><b>Period covered by Annual Return</b></p> <p>An Annual Return must be prepared in respect of each reporting period, except as provided below.</p> <p>Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.</p>	<ul style="list-style-type: none"> <li>EPA Annual Return 23 December 2005 to 22 December 2006, submitted 20 Feb 2007</li> <li>Letter to NSW EPA re submission of Annual Return, 20 February 2007</li> <li>Annual Return for 23 December 2005 to 22 December 2006, submitted to DECC on 21 February 2008</li> <li>Annual Return for 23 Dec 2007 to 22 Dec 2008, submitted to DECC 19 Feb 2009</li> </ul>	Yes	<p>The Annual Return for 23 December 2005 to 22 December 2006 was prepared and submitted to the DEC in accordance with EPL condition R1.2.</p> <p><u>May 2008</u></p> <p>The Annual Return for 23 December 2006 to 22 December 2007 was prepared and submitted to the DECC on 21 February 2008 in accordance with EPL condition R1.2</p> <p><u>April 2009</u></p> <p>The Annual Return for 23 December 2006 to 22 December 2007 was prepared and submitted to the DECC on 19 February 2008 in accordance with EPL condition R1.2</p>
R1.3	<p>Where this licence is transferred from the licensee to a new licensee,</p> <p>(a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and</p> <p>(b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.</p>		Noted	
R1.4	<p>Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on</p> <p>(a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or</p> <p>(b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.</p>		Noted	
R1.5	<p><b>Deadline for Annual Return</b></p> <p>The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60</p>	<ul style="list-style-type: none"> <li>EPA Annual Return 23 December 2005 to 22 December 2006, submitted 20 Feb 2007</li> <li>Annual Return for Dec 2006 to Dec 2007, submitted to DECC, 21 February 2008</li> <li>Annual Return to DECC, 23 Dec 2007 to 22 Dec</li> </ul>	Yes	<p>The Annual Return for 23 December 2005 to 22 December 2006 was submitted to the DEC on the 20 February 2007 in accordance with the requirement of EPL condition R1.5.</p> <p><u>May 2008</u></p>

	days after the date the transfer was granted (the 'due date').	2008, submitted 19 Feb 2009		The Annual Return for 23 December 2006 to 22 December 2007 was submitted to the DECC in Feb 2008 in accordance with the requirement of EPL condition R1.5 and the Annual Licence Fee was received by DECC on 30 January 2008. <u>April 2009</u> The Annual Return for 23 December 2007 to 22 December 2008 was submitted to the DECC on 19 Feb 2009 in accordance with the requirement of EPL condition R1.5 and the Annual Licence Fee was received by DECC on 30 January 2009.
R1.7	<b>Licensee must retain copy of Annual Return</b> The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was supplied to the EPA.	<ul style="list-style-type: none"> <li>EPA Annual Return 23 December 2005 to 22 December 2006</li> <li>Annual Return to DECC, 23 Dec 2006 to 22 Dec 2007</li> <li>Annual Return to DECC, 23 Dec 2007 to 22 Dec 2008, submitted 19 Feb 2009</li> </ul>	Yes	The Annual Return is available on the Barrick document system and a copy is retained in the DEC-EPA file. <u>May 2008</u> The Annual Return is available on the Barrick document system and the DECC file. <u>April 2009</u> The Annual Return is available on the Barrick document system and the DECC file.
R1.8	<b>Certifying of Statement of Compliance and Signing of Monitoring and Complaints Summary</b> Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: (a) the licence holder; or (b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	<ul style="list-style-type: none"> <li>Annual Return to DECC, 23 Dec 2006 to 22 Dec 2007</li> <li>Annual Return to DECC, 23 Dec 2007 to 22 Dec 2008, submitted 19 Feb 2009</li> </ul>	Yes	<u>May 2008</u> The Annual Return was signed by the Company Secretary and a Director of Barrick. <u>April 2009</u> The Annual Return was submitted to the DECC signed by the Company Secretary and a Director of Barrick.
<b>Notification of environmental harm</b>				
R2.1	Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with Part 5.7 of the Act. Notifications must be made by telephoning the EPA's Pollution Line service on 131 555.	<ul style="list-style-type: none"> <li>Annual Return to DECC, 23 Dec 2006 to 22 Dec 2007</li> <li>Annual Return to DECC, 23 Dec 2007 to 22 Dec 2008, submitted 19 Feb 2009</li> </ul>	Yes	No notifiable incidents occurred between June 2006 and April 2007. <u>May 2008</u> No notifiable incidents occurred between June 2007 and April 2008. <u>April 2009</u> No notifiable incidents occurred between May 2008 and March 2009.
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.		Yes	No notifiable incidents occurred between June 2006 and April 2007.

				<p><u>April 2009</u> No notifiable incidents occurred between May 2008 and March 2009.</p>
<b>Written report</b>				
R3.1	<p>Where an authorised officer of the EPA suspects on reasonable grounds that:</p> <p>(a) where this licence applies to premises, an event has occurred at the premises; or</p> <p>(b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.</p>		Noted	
R3.2	<p>The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.</p>		Noted	
R3.3	<p>The request may require a report which includes any or all of the following information:</p> <p>(a) the cause, time and duration of the event;</p> <p>(b) the type, volume and concentration of every pollutant discharged as a result of the event;</p> <p>(c) name, address, business hours telephone, number of employees or agents of the licensee, or a specified class who witnessed the event;</p> <p>(d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;</p> <p>(e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;</p> <p>(f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event;</p> <p>(g) any other relevant matters.</p>		Noted	
R3.4	<p>The EPA may make a written request for further details in relation to any of the above matters if it is</p>		Noted	

	not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.			
<b>Reporting of blasting monitoring</b>				
R4.1	The results of the blast monitoring required by condition M7.1 must be submitted to the EPA at the end of each reporting period.	<ul style="list-style-type: none"> <li>Review of Blast Monitoring Results 2005, The Saros Group</li> <li>Review of Blast Monitoring Results 2006, The Saros Group</li> <li>Review of Blast Monitoring Results 2007, The Saros Group</li> <li>Letter to DECC re Blast Monitoring Results, 11 Feb 2008</li> </ul>	Noted	<p>Blast monitoring data is reported in the 2006 AEMR and included in the Annual Return and quarterly reports to the DEC.</p> <p><u>May 2008</u></p> <p>Blast monitoring data was reported in the 2007 Draft AEMR and included in the Annual Return and annual report to the DECC on 11 February 2008.</p> <p><u>April 2009</u></p> <p>Blast monitoring was reported in the Draft 2008 AEMR and the Annual Return and annual report to the DECC on 19 February 2009.</p>
R4.2	The licensee must report any exceedence of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedence becomes known to the licensee or to one of the licensee's employees or agents.	<ul style="list-style-type: none"> <li>Review of Blast Monitoring Results 2005, The Saros Group</li> <li>Review of Blast Monitoring Results 2006, The Saros Group</li> <li>Review of Blast Monitoring Results 2007, The Saros Group</li> <li>Review of Blast Monitoring Results 2008, The Saros Group</li> </ul>	Noted	<p>No exceedence of the blasting limits were recorded for the blasting undertaken between June 2006 and April 2007.</p> <p><u>May 2008</u></p> <p>No exceedence of the blast limits were recorded between June 2007 and April 2008.</p> <p><u>April 2009</u></p> <p>No exceedence of blast limits were recorded between May 2008 to March 2009.</p>
<b>General conditions</b>				
<b>Copy of licence kept at the premises</b>				
G1.1	A copy of this licence must be kept at the premises to which the licence applies.		Yes	Copies of the licence are kept in the Environment Section at the Cowal Gold mine site offices.
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.		Noted	
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.		Noted	
<b>Special conditions</b>				
E1	Not applicable.			

## **ATTACHMENT C MINING LEASE CONDITIONS**



**ATTACHMENT C - MINING LEASE 1535**

No.	ML 1535 Condition	Audit Evidence	Compliance	Comments
1	<b>Notice to Landholders</b>			
	The lease holder must serve on each landholder of the land a notice in writing indicating that this lease has been granted/renewed and whether the lease includes the surface.		Not applicable	Barrick is the registered proprietor of the land on which the mining lease is located.
4	<b>Working Equipment</b>			
	The lease holder must ensure that at least 135 competent people are efficiently employed on the lease area.....OR Expend on operations carried out on the lease in the course of prospecting or mining an amount of not less than \$2,400,000 during each year of the term of this lease.		Yes	Barrick spends more than \$2,400,000 during each year on exploration and mining on the lease.
6	<b>Reports</b>			
	The lease holder shall provide within a period of 28 days after each anniversary of the date this lease has effect ..... a progress report to the satisfaction of the Director-General.....		Yes	Progress Report prepared for submission to DPI in July 2006.
11	<b>Safety</b>			
	Operations are to be carried out in a manner that ensures safety of [persons or stock in the vicinity of the operations.....		Yes	Safety of construction activities is being observed with protective fences around areas of excavation and the mine lease boundary has been fenced to restrict entry of persons and stock.
12	<b>Rehabilitation</b>			
	Land disturbed must be rehabilitated to a stable and permanent form suitable for a subsequent land use acceptable to the Director-General and in accordance with the Mining Operations Plan.....	<ul style="list-style-type: none"> <li>• Cowal Gold Project June 2007- June 2009 Mining Operations Plan, May 2007.</li> <li>• Mining Operations Plan 2009 to 2010</li> <li>• Letter to DPI-Mineral re MOP 2009-2010, 31 Mar 2009</li> <li>• Letter from DPI-Minerals re Approval of MOP, 3 April 2009</li> </ul>	Yes	<p><u>May 2008</u> Mining Operations Plan for June 2007 to June 2009 submitted to the DPI (Minerals) May 2007.</p> <p>The rehabilitation activities are described in section 4 of the MOP.</p> <p>A summary of the rehabilitation actions is presented in section 4.1 of this audit report.</p> <p><u>April 2009</u> A Mining Operations Plan for 2009-2010 was approved by DPI-Minerals on 31 March 2009.</p>
13	<b>The lease holder must comply with any direction given by the Director-General regarding the stabilisation and revegetation of any mine residues, tailing or overburden dumps situated on the lease area</b>		Noted	

<b>14</b>	<b>Prevention of Soil Erosion and Pollution</b>			
	Operations must be carried out in a manner that does not cause or aggravate air pollution, water pollution (including sedimentation) or soil contamination or erosion unless otherwise authorised by a relevant approval and in accordance with the Mining Operations Plan.....	<ul style="list-style-type: none"> <li>Erosion and Sediment Control Management Plan Sep 2003</li> <li>Dust Management Plan Sep 2003</li> </ul>	Yes	The operations were observed as being undertaken in accordance with the environmental management plans, Mining Operations Plan and Addenda.
<b>15</b>	<b>Transmission lines, Communication lines and Pipelines</b>			
	Operations must not interfere with or impair the stability or efficiency of any transmission line, communications line or pipeline or other utility on the area .....		Yes	Relocation of Telstra cables and power lines within the ML boundary occurred during construction in the 1 <sup>st</sup> quarter of 2004.
<b>16</b>	<b>Fences and gates</b>			
	(a) Activities on the lease must not interfere with or damage fences without the prior written approval of the owner .....		Not applicable	Barrick is the registered proprietor of the land on which the mining lease is located.
<b>17</b>	<b>Roads</b>			
	<p>(a) Operations must not affect any road unless in accordance with an accepted Mining Operations Plan or with the prior approval of the Director-General.....</p> <p>(b) The lease holder must pay the local council, DLWC or the RTA the cost incurred in fixing any damage to roads caused by the operations carried out under this lease.....</p>		Yes	The external road access route to the CGP site from West Wyalong as approved in the Development Consent is complete and in use for traffic to and from the mine site.
<b>18</b>	Access tracks must be kept to a minimum and be positioned so that they do not cause any unnecessary damage to the land.....		Noted	Access tracks within the mining lease area are designed within the mine plan development and any temporary access tracks will be rehabilitated when they are no longer required.
<b>19</b>	<b>Trees and Timber</b>			
	(c) The lease holder must not cut, destroy, ringbark or remove any timber or other vegetative cover on the lease except such as directly obstructs or prevents the carrying out of operations.....	<ul style="list-style-type: none"> <li>Vegetation Clearance Protocol</li> <li>Letter from DoP re Inland Greybox Woodland, 10 August 2007</li> <li>Letter from DECC re Inland Greybox Woodland, 27 August 2007</li> <li>Letter from DECC re Myall Woodland, 29 August 2007</li> </ul>	Yes	<p>Barrick is retaining any trees within the mining lease not in the path of the project development. Approval to remove any trees or vegetative cover within the mining lease area must be obtained from the Environmental Manager prior to removal.</p> <p><u>May 2008</u> DECC, DPI (Minerals) and DoP accepted the implementation of the Vegetation Clearance Protocols related to the Inland Grey Box Woodland, dated 9 August 2007, and Myall Woodland dated 20 August 2007.</p>

<b>23</b>	<b>Security</b>			
<b>24</b>	<b>Mine Safety Plan</b>			
	Prior to commencement of any construction activities on the lease area and as required by the Director-General the lease holder must prepare a Mine Safety Plan to ensure the Mine Safety General Rule 2000 is adhered to.	<ul style="list-style-type: none"> <li>Mine Safety Plan</li> </ul>	Yes	Mine Safety Plan was developed and submitted to the DMR.
<b>25</b>	Mining Rehabilitation, Environmental Management Process (MREMP) Mining Operations Plan (MOP)	<ul style="list-style-type: none"> <li>Mining Operations Plan 2007 to June 2009</li> <li>Mining Operations Plan 2009-2010, dated 31 March 2009</li> <li>Letter from DPI-Minerals re Approval of MOP, 3 April 2009</li> </ul>	Yes	<u>May 2008</u> An annual meeting is held of the Mining, Rehabilitation and Environmental Management Process Committee (MREMP) to discuss the Annual Environmental Management Report (AEMR). The participants included DPI (Minerals), DECC, DWE, Councils, and Dam Safety Committee representatives.
	(1) Mining operations, including mining purposes, must be conducted in accordance with the MOP satisfactory to the Director-General.....		Yes	<u>May 2008</u> The Mining Operations Plan for June 2007 to June 2009 was submitted to DPI in May 2007. DPI advised of satisfaction of MOP.
	(9) An Initial Mining Operations Plan must be submitted prior to commencement of construction on the site .....	<ul style="list-style-type: none"> <li>Initial Mining Operations Plan Cowal Gold Project Mar 2004</li> </ul>	Yes	
<b>26</b>	<b>Annual Environmental Management Report (AEMR)</b>			
	(1) Within 12 of the commencement of mining operations and thereafter annually ..... the lease holder must lodge an AEMR with the Director-General.	<ul style="list-style-type: none"> <li>2006 AEMR, submitted April 2007</li> <li>Draft 2007 AEMR, May 2008</li> <li>Draft 2008 AEMR, Mar 2009</li> </ul>	N/A	The AEMR's have been prepared and a presentation provided to the government authorities each year (refer to condition 25 above). <u>May 2008</u> The Draft 2007 AEMR was provided to the auditor in draft on 30 April 2008. <u>April 2009</u> The Draft 2008 AEMR was provided to the auditor in draft on 31 March 2009.

27	<p>(a) Ground Vibration The lease holder must ensure that ground vibration peak particle velocity generated by any blasting within the lease area does not exceed 10mm/sec and does not exceed 5mm/sec in more than 5% of the total number of blasts over a period of 12 months at any dwelling or occupied premises, not owned by the lease holder or a related corporation, unless determined otherwise by the EPA.</p>	<p>Review of Blast Monitoring Results 2007, Saros Group, February 2008 Review of Blast Monitoring Results 2008, Saros Group, February 2009</p>	Yes	<p>Blasting that occurred from June 2006 to April 2007, did not trigger the vibration monitors on any occasion. All results recorded were less than 5mm/sec. <u>May 2008</u> All results recorded for ground vibration from blasts conducted between June 2007 and April 2008, were less than 5mm/sec. <u>April 2009</u> All results recorded for ground vibration from blasts conducted between May 2008 and March 2009, were less than 5mm/sec.</p>
	<p>(b) Blast Overpressure The lease holder must ensure that the blast overpressure noise level generated by any blasting within the lease area does not exceed 120dB(linear) and does not exceed 115 db(linear) in more than 5% of the total number of blasts over a period of 12 months, at any dwelling or occupied premises, not owned by the lease holder or a related corporation, unless determined otherwise by the EPA.</p>	<p>Review of Blast Monitoring Results 2007, Saros Group, February 2008 Review of Blast Monitoring Results 2008, Saros Group, February 2009</p>	Yes	<p>Blasting that occurred from June 2006 to April 2007, did not exceed the overpressure limit of 115dB (Lin peak) on any occasion. <u>May 2008</u> Blasting that occurred from June 2007 to April 2008, did not exceed the overpressure limit of 115dB (Lin peak) on any occasion. <u>April 2009</u> Blasting that occurred from May 2008 and March 2009, did not exceed the overpressure limit of 115dB (Lin peak) on any occasion.</p>
28	<p><b>Use of Cyanide</b> The lease holder must not use cyanide or any solution containing cyanide for the recovery of minerals on the lease area without the prior written approval of the Minister and subject to any conditions he may stipulate.</p>	<ul style="list-style-type: none"> <li>Letter from DPI re Approval of Cyanide Use on Mining Lease 1535, Cowal Gold Mine, 17 Jan 2006</li> </ul>	Yes	<p>Letter of approval received from DPI in January 2006 for use of cyanide in the CGP process plant.</p>
29	<p><b>Control of Operations</b> (a) If an Environmental Officer of the DMW believes that the lease holder is not complying with any provision of the Act or any condition of this lease relating to the working of the lease, he may direct the lease holder to: (i) cease working the lease; (ii) cease that part of the operation not complying with the Act or conditions; Until in the opinion of the Environmental Officer the situation is rectified. (c) The lease holder must comply with any written direction given. The Director-General may confirm, vary or revoke any such direction. (d) A written direction referred to in this condition may be served on the Mine Manager.</p>		Noted	

**ATTACHMENT D     BORE LICENCE CERTIFICATES**

## ATTACHMENT D

## GROUNDWATER BORE LICENCE CERTIFICATES – COWAL GOLD PROJECT

Purpose	Licence no.	Date granted	Expiry date	Lot	DP	Parish	County
Production	70BL228907	12-Dec-03	11-Dec-08	Lot 23	753097	Lake	Gipps
Production	70BL228375	13-Jan-03	12-Jan-08	Lot 23	753097	Lake	Gipps
Production	70BL229248	19-Dec-03	18-Dec-13	Road East Lot 91	753077	Cadalgulee	Gipps
Production	70BL229249	6-May-04	21-Dec-13	Road North Lot 105	753077	Cadalgulee	Gipps
Production	70BL229250	6-May-04	21-Dec-13	TSR 84719 (7002 ref)	753077	Cadalgulee	Gipps
Production	70BL229251	6-May-04	21-Dec-13	Road adj Lot 55	753089	Gibrigal	Gipps
Monitoring	70BL230577	23-Mar-05	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230578	23-Mar-05	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230579	23-Mar-05	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230580	23-Mar-05	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230581	23-Mar-05	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230582	23-Mar-05	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230583	23-Mar-05	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230584	23-Mar-05	Perpetuity	Lot 24	753097	Lake	Gipps
Monitoring	70BL230585	23-Mar-05	Perpetuity	Lot 24	753097	Lake	Gipps
Monitoring	70BL230586	23-Mar-05	Perpetuity	Lot 7001	1029713	Lake	Gipps
Monitoring	70BL230587	23-Mar-05	Perpetuity	Lot 7001	1029713	Lake	Gipps
Monitoring	70BL230588	23-Mar-05	Perpetuity	Lot 7001	1029713	Lake	Gipps
Monitoring	70BL230589	23-Mar-05	Perpetuity	Lot 7001	1029713	Lake	Gipps
Monitoring	70BL230590	23-Mar-05	Perpetuity	Lot 7001	1029713	Lake	Gipps
Monitoring	70BL230591	24-Mar-05	Perpetuity	Crown Land North of Lot 23	753097	Lake	Gipps
Monitoring	70BL230592	24-Mar-05	Perpetuity		753097	Lake	Gipps
Monitoring	70BL230593	24-Mar-05	Perpetuity		753097	Lake	Gipps
Monitoring	70BL230594	24-Mar-05	Perpetuity		753097	Lake	Gipps
Monitoring	70BL230595	24-Mar-05	Perpetuity		753097	Lake	Gipps
Monitoring	70BL229727	2-Feb-04	Perpetuity	Lot 7	753083	Corringle	Gipps
Monitoring	70BL230301	28-Sep-04	Perpetuity	Lot 7	753083	Corringle	Gipps
Monitoring	70BL230302	28-Sep-04	Perpetuity	Lot 7	753083	Corringle	Gipps
Monitoring	70BL229746	20-Feb-04	Perpetuity	Lot 2	530299	Lake	Gipps
Monitoring	70BL230065/ 70BL230306	28-Sep-04	Perpetuity	Lot 2	530299	Lake	Gipps
Monitoring	70BL230063/ 70BL230307	28-Sep-04	Perpetuity	Lot 2	530299	Lake	Gipps
Monitoring	70BL229655	15-Apr-04	Perpetuity	Former Gxame Reserve		Lake	Gipps
Monitoring	70BL229756	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230304	28-Sep-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229759	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230062/ 70BL230303	28-Sep-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229747	20-Feb-04	Perpetuity	Lot 24	753097	Lake	Gipps
Monitoring	70BL230305	28-Sep-04	Perpetuity	Lot 24	753097	Lake	Gipps
Monitoring	70BL230299	28-Sep-04	Perpetuity	Lot 7	753083	Corringle	Gipps
Monitoring	70BL230300	28-Sep-04	Perpetuity	Lot 7	753083	Corringle	Gipps

Purpose	Licence no.	Date granted	Expiry date	Lot	DP	Parish	County
Monitoring	70BL230308	28-Sep-04	Perpetuity	Lot 107	1059150	Corringle	Gipps
Monitoring	70BL230309	28-Sep-04	Perpetuity	Lot 107	1059150	Corringle	Gipps
Monitoring	70BL229726	02-Feb-04/ 19-May-95	Perpetuity	Lot 23	530299	Lake	Gipps
Monitoring	70BL229653	15-April-04/ 10-Nov-94	Perpetuity	Rd Res. Adj Lot 68	753077	Cadalgulee	Gipps
Monitoring	70BL229652	15-April-04/ 10-Nov-94	Perpetuity	Rd Res. Adj Lot 66	753077	Cadalgulee	Gipps
Monitoring	70BL229650	15-April-04/ 10-Nov-94	Perpetuity	Rd Res. Adj Lot 18	753129	Cadalgulee	Gipps
Monitoring	70BL229725	02-Feb-04/ 19-May-95	Perpetuity	Lot 23		Lake	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 12	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 12	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 12	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 12	753083	Corringle	Gipps
Monitoring	70BL229640	15-April-04/ 10-July -97	Perpetuity	Closed Road Within Lot 44	753083	Corringle	Gipps
Monitoring	70BL229639	15-April-04/ 10-July -97	Perpetuity		753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 3	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 3	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 9	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 9	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 9	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 9	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 9	753083	Corringle	Gipps
Monitoring	70BL226558	10-Jul-97	Perpetuity	Lot 9	753083	Corringle	Gipps
Monitoring	70BL229654	15-Apr-04	Perpetuity	Closed TSR 17085 (7001 ref)		Lake	Gipps
Monitoring	70BL229642	15-Apr-04	Perpetuity		1029713	Lake	Gipps
Monitoring	70BL229643	15-Apr-04	Perpetuity		1029713	Lake	Gipps
Monitoring	70BL229644	15-Apr-04	Perpetuity		1029713	Lake	Gipps
Monitoring	70BL229645	15-Apr-04	Perpetuity		1029713	Lake	Gipps
Monitoring	70BL229646	15-Apr-04	Perpetuity		1029713	Lake	Gipps
Monitoring	70BL229641	15-Apr-04	Perpetuity		1029713	Lake	Gipps
Monitoring	70BL230374	19-Nov-04	Perpetuity	Lot 2	530299	Lake	Gipps
Monitoring	70BL230381	19-Nov-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230375	19-Nov-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL230376	19-Nov-04	Perpetuity	Lot 24	753097	Lake	Gipps
Monitoring	70BL230377	19-Nov-04	Perpetuity	Lot 24	753097	Lake	Gipps
Monitoring	70BL230378	19-Nov-04	Perpetuity	Lot 105	1059150	Corringle	Gipps
Monitoring	70BL230379	19-Nov-04	Perpetuity	Lot 104	1059150	Corringle	Gipps
Monitoring	70BL230380	19-Nov-04	Perpetuity	Lot 7	753083	Corringle	Gipps
Monitoring	70BL230383	19-Nov-04	Perpetuity	Lot 104	1059150	Corringle	Gipps
Monitoring	70BL230384	19-Nov-04	Perpetuity	Lot 105	1059150	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 11	753097	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 11	753077	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 12	753077	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 12	753077	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 3	753089	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 3	753083	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 3	753083	Corringle	Gipps

Purpose	Licence no.	Date granted	Expiry date	Lot	DP	Parish	County
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 3	753083	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 3	530299	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 3	530299	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 7	753097	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 7	753097	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 7	753097	Corringle	Gipps
Monitoring	70BL226125	19-May-95	Perpetuity	Lot 7	753083	Corringle	Gipps
Monitoring	70BL229757	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229758	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229748	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229749	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229750	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229752	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229753	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229754	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229755	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229751	20-Feb-04	Perpetuity	Lot 23	753097	Lake	Gipps
Monitoring	70BL229637	15-April-04/ 19-May-95	Perpetuity	On Road Reserve inside Lot 44	753083	Corringle	Gipps
Monitoring	70BL229638	15-April-04/ 19-May-95	Perpetuity	On Road Reserve inside Lot 44	753083	Corringle	Gipps
Monitoring	70BL229648	15-Apr-04	Perpetuity	TSR84719 (7002 ref)	753077	Cadalgulee	Gipps
Monitoring	70BL229647	15-Apr-04	Perpetuity	TSR84719 (7002 ref)	753077	Cadalgulee	Gipps
Monitoring	70BL229649	15-April-04/ 10-Nov-94	Perpetuity	Rd Res. Adj Lot 12	753089	Gibrigal	Gipps
Monitoring	70BL229651	15-April-04/ 10-Nov-94	Perpetuity	Rd Res. Adj Lot 55	753089	Gibrigal	Gipps
Monitoring	70BL153673	21-Dec-93	Perpetuity	Portion 23		Corringle	Gipps
Monitoring	70BL153674	21-Dec-93	Perpetuity	TSR 36256		Cadalgulee	Gipps
Test	70BL228999	6-Feb-03	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL229001	6-Feb-03	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL229000	6-Feb-03	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230110	1-Jul-04	Perpetuity	Former Game Reserve		Lake	Gipps
Dewatering (test)	70BL230116	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230117	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230118	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230119	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230115	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230097	2-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps



Purpose	Licence no.	Date granted	Expiry date	Lot	DP	Parish	County
Dewatering (test)	70BL230095	1-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230093	1-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230092	1-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230091	1-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230100	1-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230099	1-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230096	1-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230105	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230103	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230098	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230109	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230101	1-Jul-04	Perpetuity	Closed TSR 17085		Lake	Gipps
Dewatering (test)	70BL230102	1-Jul-04	Perpetuity	Closed TSR 17085		Lake	Gipps
Dewatering (test)	70BL230104	1-Jul-04	Perpetuity	Closed TSR 17085		Lake	Gipps
Dewatering (test)	70BL230108	1-Jul-04	Perpetuity	Former Game Reserve		Lake	Gipps
Dewatering (test)	70BL230106	1-Jul-04	Perpetuity			Lake	Gipps
Dewatering (test)	70BL230113	1-Jul-04	Perpetuity			Lake	Gipps
Dewatering (test)	70BL230111	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230112	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230114	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Dewatering (test)	70BL230094	2-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230090	2-Jul-04	Perpetuity	Lot 24	753097	Lake	Gipps
Dewatering (test)	70BL230107	2-Jul-04	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL231071	6-Mar-06	Perpetuity	Lot 7001	1029713	Lake	Gipps
Test	70BL231072	6-Mar-06	Perpetuity	Lot 7001	1029713	Lake	Gipps
Test	70BL231073	6-Mar-06	Perpetuity	Crown Land North of Lot 23	753097	Lake	Gipps
Test	70BL231074	6-Mar-06	Perpetuity		753097	Lake	Gipps
Test	70BL231075	6-Mar-06	Perpetuity		753097	Lake	Gipps
Test	70BL231076	6-Mar-06	Perpetuity		753097	Lake	Gipps
Test	70BL231077	6-Mar-06	Perpetuity		753097	Lake	Gipps
Test	70BL231078	6-Mar-06	Perpetuity		753097	Lake	Gipps

Purpose	Licence no.	Date granted	Expiry date	Lot	DP	Parish	County
Test	70BL231080	6-Mar-06	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL231081	6-Mar-06	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL231082	6-Mar-06	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL231083	6-Mar-06	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL231084	6-Mar-06	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL31085	6-Mar-06	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL31086	6-Mar-06	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL31087	6-Mar-06	Perpetuity	Lot 23	753097	Lake	Gipps
Test	70BL31088	6-Mar-06	Perpetuity	Lot 24	753097	Lake	Gipps
Test	70BL31089	6-Mar-06	Perpetuity	Lot 24	753097	Lake	Gipps
Test	70BL31090	6-Mar-06	Perpetuity	Lot 25	753097	Lake	Gipps
Test	70BL31091	6-Mar-06	Perpetuity	Lot 25	753097	Lake	Gipps
Test	70BL31092	6-Mar-06	Perpetuity	Lot 25	753097	Lake	Gipps
Test	70BL31093	6-Mar-06	Perpetuity	Lot 25	753097	Lake	Gipps
Test	70BL31094	6-Mar-06	Perpetuity	Lot 25	753097	Lake	Gipps
Dewatering (extraction)	70BL230225	6-Jan-05	5-Jan-10	Closed TSR 17085		Lake	Gipps
Dewatering (extraction)	70BL230234	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230229	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230230	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230231	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230219	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230232	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230233	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230211	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230212	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230213	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230214	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230215	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230216	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230220	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230221	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230222	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230206	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230224	6-Jan-05	5-Jan-10	Closed TSR 17085		Lake	Gipps

Purpose	Licence no.	Date granted	Expiry date	Lot	DP	Parish	County
Dewatering (extraction)	70BL230223	6-Jan-05	5-Jan-10	Closed TSR 17085		Lake	Gipps
Dewatering (extraction)	70BL230226	6-Jan-05	5-Jan-10	Crown Land North of Lot 23 (Former Game Reserve)		Lake	Gipps
Dewatering (extraction)	70BL230227	6-Jan-05	5-Jan-10			Lake	Gipps
Dewatering (extraction)	70BL230228	6-Jan-05	5-Jan-10			Lake	Gipps
Dewatering (extraction)	70BL230205	6-Jan-05	5-Jan-10			Lake	Gipps
Dewatering (extraction)	70BL230207	6-Jan-05	5-Jan-10		Lot 23	753097	Lake
Dewatering (extraction)	70BL230208	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230209	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Dewatering (extraction)	70BL230217	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230218	6-Jan-05	5-Jan-10	Lot 24	753097	Lake	Gipps
Dewatering (extraction)	70BL230210	6-Jan-05	5-Jan-10	Lot 23	753097	Lake	Gipps
Pipeline and Levee	70SL090308	11-Jan-05	11-Jan-09	Lot 18 Lot 23 Lot 24 Lot 24 Lot 44 Lot 45 Lot 46 Lot 47 Lot 11 Lot 2 Lot 23 Lot 24 Lot 25	53097 753097 753097 754097 742918 42918 42918 42918 753083 530299 753097 53097 793097	Crown Land Lake Cowal	Wamboyne TSR 17085
Bywash Dam	70SL023726	14-JUL-04	14-Jul-09	Lot 45	793097, R56899		
Monitoring bores	70BL232327	17-Jan-08	Perpetuity	Lot 7009	1069239		
Monitoring bores	70BL232329	17-Jan-08	Perpetuity	Lot 23	753097		
Monitoring bores	70BL232328	17-Jan-08	Perpetuity	Lot 7009	1069239		
Monitoring bores	70BL232330	17-Jan-08	Perpetuity	Lot 7009	1069239		
Monitoring bores	70BL232331	17-Jan-08	Perpetuity	Lot 7009	1069239		
Monitoring bores	70BL232332	17-Jan-08	Perpetuity	Lot 7009	1069239		

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Monitoring	70BL232327	17 Jan 2008	Perpetuity	7009	1069239	Corringle	Gipps
Monitoring	70BL232328	17 Jan 2008	Perpetuity	7009	1069239	Corringle	Gipps
Monitoring	70BL232329	17 Jan 2008	Perpetuity	23	753097	Lake	Gipps
Monitoring	70BL232330	17 Jan 2008	Perpetuity	7009	1069239	Corringle	Gipps
Monitoring	70BL232331	17 Jan 2008	Perpetuity	7009	1069239	Corringle	Gipps
Monitoring	70BL232332	17 Jan 2008	Perpetuity	7009	1069239	Corringle	Gipps
Test	70BL232442 (5 bores)	7 May 2008	Perpetuity	25	753097	Lake	Gipps
Test		7 May 2008	Perpetuity	25	753097	Lake	Gipps
Test		7 May 2008	Perpetuity	25	753097	Lake	Gipps
Test		7 May 2008	Perpetuity	25	753097	Lake	Gipps
Test		7 May 2008	Perpetuity	25	753097	Lake	Gipps
Test	70BL232443 (6 bores)	7 May 2008	Perpetuity	24	753097	Lake	Gipps
Test		7 May 2008	Perpetuity	24	753097	Lake	Gipps
Test		7 May 2008	Perpetuity	24	753097	Lake	Gipps
Test		7 May 2008	Perpetuity	24	753097	Lake	Gipps
Test		7 May 2008	Perpetuity	24	753097	Lake	Gipps
Monitoring Bores	70BL232526	28 Jul 2008	Perpetuity	105 <sup>A</sup>	753077	Cadalgulee	Gipps
Monitoring Bores	70BL232527	28 Jul 2008	Perpetuity	7002	1117542	Cadalgulee	Gipps
Monitoring Bores	70BL232551 (2 bores)	14 Aug 2008	Perpetuity	2	753084	Cowal	Gipps
Monitoring Bores		14 Aug 2008	Perpetuity	23	753097	Lake	Gipps
Monitoring Bores	70BL232552 (6 bores)	14 Aug 2008	Perpetuity	23	753097	Lake	Gipps
Monitoring Bores		14 Aug 2008	Perpetuity	23	753097	Lake	Gipps
Monitoring Bores		14 Aug 2008	Perpetuity	23	753097	Lake	Gipps
Monitoring Bores		14 Aug 2008	Perpetuity	23	753097	Lake	Gipps
Monitoring Bores		14 Aug 2008	Perpetuity	24	753097	Lake	Gipps
Monitoring Bores	14 Aug 2008	Perpetuity	23	753097	Lake	Gipps	
Monitoring Bores	70BL232564	2 Sep 2008	Perpetuity	105	1059150	Corringle	Gipps
Monitoring Bores	70BL232565	2 Sep 2008	Perpetuity	2	530299	Lake	Gipps
Monitoring Bores	70BL232566	2 Sep 2008	Perpetuity	2	530299	Lake	Gipps
Monitoring Bores	70BL232567	2 Sep 2008	Perpetuity	2	530299	Lake	Gipps
Monitoring Bores	70BL232568	2 Sep 2008	Perpetuity	7	753083	Corringle	Gipps
Monitoring Bores	70BL232569	2 Sep 2008	Perpetuity	7	753083	Corringle	Gipps
Monitoring Bores	70BL232570	2 Sep 2008	Perpetuity	7	753083	Corringle	Gipps
Monitoring Bores	70BL232571	2 Sep 2008	Perpetuity	23	753097	Lake	Gipps

Purpose	Licence No.	Date Granted	Expiry Date	Lot	DP	Parish	County
Monitoring Bores	70BL232572	2 Sep 2008	Perpetuity	23	753097	Lake	Gipps
Monitoring Bores	70BL232573	2 Sep 2008	Perpetuity	23	753097	Lake	Gipps
Monitoring Bores	70BL232574	2 Sep 2008	Perpetuity	24	753097	Lake	Gipps
Monitoring Bores	70BL232580	3 Sep 2008	Perpetuity	1	1059284	Cowal	Gipps
Monitoring Bores	70BL232581	3 Sep 2008	Perpetuity	2	753084	Cowal	Gipps
Monitoring Bores	70BL232582	3 Sep 2008	Perpetuity	2	753084	Cowal	Gipps
Monitoring Bores	70BL232583	3 Sep 2008	Perpetuity	24	75309	Lake	Gipps
Monitoring Bores	70BL232584	3 Sep 2008	Perpetuity	23	753097	Lake	Gipps
Mining	70BL228907	11 Dec 2008	11 December 2013	23	753097	Lake	Gipps
Mining	70BL229248	18 Dec 2008	18 December 2013	91 <sup>B</sup>	753077	Cadalgulee	Gipps
Mining	70BL229249	21 Dec 2008	21 December 2013	105 <sup>C</sup>	753077	Cadalgulee	Gipps
Mining	70BL229250	21 Dec 2008	21 December 2013	7002	753077	Cadalgulee	Gipps
Mining	70BL229251	21 Dec 2008	21 December 2013	55 <sup>D</sup>	753089	Gibrigal	Gipps
Monitoring Bores	70BL232757	3 Mar 2009	Perpetuity	7001	1029713	Lake	Gipps
Monitoring Bores	70BL232758	3 Mar 2009	Perpetuity	7001 <sup>D</sup>	1029713	Lake	Gipps
Monitoring Bores	70BL232759	3 Mar 2009	Perpetuity	23	753097	Lake	Gipps
Monitoring Bores	70BL232760	3 Mar 2009	Perpetuity	24	753097	Lake	Gipps

A: Pt Road Res North

B: Road East

C: Road North

D: Road Adj

E: Crown Land Adj