

6.0 Statement of Commitments

This Statement of Commitments (January 2007) replaces that included at Section 6.0 of Volume 1 of the Environmental Assessment for the Anvil Hill Project (EA). All definitions and section references are as per the EA.

If Approval is granted and acted upon, Centennial will commit to the following operational controls and environmental management measures.

6.1 Production and Life of Operation

- 6.1.1 Apart from the commitments relating to the Rehabilitation and Landscape Management Plan, the life of the Project will be from the grant of Project Approval until 21 years after the granting of a Mining Lease for the Project.

Note: Centennial is committed to completion of rehabilitation following mine closure, in accordance with the completion criteria which will be determined in consultation with the relevant government agencies, to the satisfaction of the Director-General of DoP in consultation with the DPI.

- 6.1.2 No more than 10.5 Mt of ROM coal per year will be extracted and processed at the site.
- 6.1.3 All coal will be transported from the site by rail. There will be no coal haulage on public roads.

6.2 Community Enhancement Program

- 6.2.1 The following Community Enhancement Program is proposed to be implemented as part of a Voluntary Planning Agreement:

Community Enhancement Program

Issue of Concern	Detail	Mechanism/Contribution
Community Projects	For Council's Recreation Assets Renewal Fund	\$1.2 million
Local Environmental Management	External to the mine site Wybong Uplands Land Management Strategy (refer to Section 5.1.5.1)	\$100,000 per annum for 5 years
Education and Training	Education and Training Strategy as per Memorandum of Understanding with Council	\$200,000 per annum for 3 years
Community Infrastructure	Denman Recreation Area Enhancements	\$2.2 million

- 6.2.2 Centennial will work with the local Council to facilitate local employment opportunities within the Muswellbrook Shire.

6.3 Acquisition upon Request

- 6.3.1 There are a number of properties predicted to experience dust and noise levels above the relevant criteria for significant affectation (refer to **Sections 5.5 and 5.6**), at some stage during the mine life. Upon receiving a written request for acquisition from the landowner of the land listed in Tables 4 and 5 in **Appendix 1**, Centennial will acquire the land in accordance with the procedures set out by DoP in the Project Approval.

6.4 Noise

Noise Impact Assessment Criteria

- 6.4.1 Noise emissions from the Project, when measured within 30 metres of a private residence, will not exceed the predicted worst case noise levels set out in Appendix C of **Appendix 12** (Noise and Vibration Assessment) unless a specific agreement is reached with the landholder in regard to noise impacts at a residence.

If Centennial has negotiated a written noise agreement with any landowner, and a copy of this agreement has been forwarded to DoP and DEC, then noise levels from the Project may exceed the noise limits in Appendix C of **Appendix 12** in accordance with the agreement.

Land Acquisition Criteria

- 6.4.2 If the noise generated by the Project exceeds LAeq noise level of 40 dBA, Centennial will, upon receiving a written request for acquisition from the landowner, acquire the land in accordance with the procedures set out in the Project Approval.

Noise Mitigation Measures

The following noise control measures will be employed throughout the life of the Project unless otherwise agreed by DoP:

- 6.4.3 The CPP, coal stockpiles and associated infrastructure will be located near the eastern boundary of the Proposed Disturbance Area to take advantage of natural topographic shielding which will reduce noise impacts on surrounding areas.
- 6.4.4 The CPP and crushers will have noise enclosures, and shielding will be installed for conveyors.
- 6.4.5 The rail loop will be located to use natural topography for shielding as much as possible. In addition, a 4 metre high noise barrier will be constructed on parts of the track to meet the noise modelling in the EA.
- 6.4.6 At night, trucks will be restricted to operate below the maximum elevation of the overburden emplacement areas.

Additional Noise Mitigation Measures

- 6.4.7 Upon receiving a written request from:
- a landowner of the land listed in Tables 4 and 5 of **Appendix 1** (unless the landowner has requested acquisition); or

- the owner of any residence in existence at the date of Project Approval where subsequent noise monitoring shows the noise generated by the Project is greater than, or equal to, L_{Aeq} 38 dB(A) (except where a negotiated noise agreement is in place);

Centennial will implement additional reasonable and feasible noise mitigation measures such as double glazing, insulation, and/or air conditioning at any residence on the land in consultation with the landowner. If, within three months of receiving this request from the landowner, Centennial and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then the matter will be referred to the Director-General for resolution.

Noise Monitoring

- 6.4.8 Centennial will implement a Noise Monitoring Program for the Project. The Program will be prepared by Centennial in stages so that it best reflects the scope and extent of noise impact during the relevant parts of the Project. Each stage of the Program will be prepared prior to the commencement by Centennial of that part of the Project. The Noise Monitoring Program may include a combination of real-time and attended monitoring measures, and a noise monitoring protocol for evaluating compliance with the noise impact assessment and land acquisition criteria in the Project Approval.

6.5 Blasting and Vibration

Blasting Hours

- 6.5.1 Blasting will be undertaken Monday to Saturday inclusive, with blasts being detonated between the hours of 9.00 am and 3.00 pm except under exceptional circumstances where safety issues require blasting outside of these times. No blasting will be undertaken on Sundays or public holidays without the written approval of DEC.

Airblast Overpressure and Ground Vibration Criteria

- 6.5.2 Airblast overpressure from any blast will not exceed 120 dBL at a residence in existence at the date of the Project Approval, and 95% of all blasts over a 12 month period will not exceed 115 dBL at any such residence, unless specific agreement is reached with the landholder.
- 6.5.3 Ground vibration from any blast will not exceed 10 mm/s at a residence in existence at the date of the Project Approval and 95% of all blasts over a 12 month period will not exceed 5 mm/s at any such residence, unless specific agreement is reached with the landholder.

Road Closure

- 6.5.4 Prior to carrying out any blasting within 500 metres of Wybong Road, Centennial will prepare and implement a road closure protocol, in consultation with Council, DPI and DoP.

Public Notice

6.5.5 During the life of the Project, Centennial will:

- (a) operate a Blasting Hotline, or alternate system agreed to by the Director-General, to enable the public to get up-to-date information on the blasting schedule at the Project; and
- (b) advertise the blasting hotline number in a local newspaper at least four times each year.

Blast Controls

- 6.5.6 Centennial will design and undertake blasts to ensure the relevant vibration and blast overpressure criteria are met at the 500 kV transmission line,
- 6.5.7 Centennial will refine and manage its blasting practices or undertake ameliorative measures so as not to significantly increase the risk of instability or affect the structural integrity of the rock shelter sites that are considered to be of significant Aboriginal cultural value in the Wallaby Rocks, Western Rocks and Limb of Addy Hill plateaus. This will include an ongoing monitoring program and review of blast design parameters.
- 6.5.8 Techniques to minimise blast impacts will be employed as necessary to ensure compliance with relevant criteria. This may include blast initiation using electronic detonation techniques, limiting blast MIC, consideration of wind speed and direction prior to blasting, use of adequate stemming, implementing a delay detonation system, and careful drilling and hole loading to ensure that the required blast design is implemented.
- 6.5.9 The Mine Manager or delegate will undertake a pre-blasting review of weather conditions to identify any conditions which may significantly increase blasting impact or dust impacts. When weather conditions are suitable or if safety requirements dictate at other times, the Mine Manager or delegate will issue a blast clearance prior to each blast proceeding.
- 6.5.10 Wybong Road will be temporarily closed during blast events within 500 metres of the road.
- 6.5.11 Centennial will consult with residents within 2km of the Project Area prior to the first production blast on site to identify those residents who may wish to be notified on an ongoing basis of such blasting times. Should any residents wish to be notified of blasting dates and times on an ongoing basis, Centennial will determine in consultation with these residents an appropriate mechanism for undertaking this notification.
- 6.5.12 All relevant personnel will be trained on environmental obligations in relation to blasting controls.
- 6.5.13 The date, location of blast holes and quantity of explosive detonated each day will be documented.
- 6.5.14 Monitoring will be undertaken at locations representative of surrounding nearest private residences and other sensitive locations to verify compliance with relevant vibration and blast overpressure criteria, and identify appropriate further blast refinement or management.

6.5.15 Blast management procedures will be periodically reviewed to evaluate performance and identify corrective action, if required.

6.5.16 Blast monitoring results will be reported in the AEMR.

6.6 Air Quality

Land Acquisition Criteria

6.6.1 As noted in **Section 6.3**, if the dust emissions generated by the Project exceed the criteria in **Tables 6.1, 6.2, and 6.3** at any residence, or on more than 25% of any privately owned vacant land, Centennial will, upon receiving a written request for acquisition from the landowner, acquire the land in accordance with the procedures set out in the Project Approval.

Table 6.1 - Long term land acquisition criteria for particulate matter

Pollutant	Averaging period	Criterion
Total suspended particulate (TSP) matter	Annual	90 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	Annual	30 µg/m ³

Table 6.2 - Short term land acquisition criteria for particulate matter

Pollutant	Averaging period	Criterion	Percentile ^a	Basis
Particulate matter < 10 µm (PM ₁₀)	24 hour	150 µg/m ³	99 ^b	Total ^c
Particulate matter < 10 µm (PM ₁₀)	24 hour	50 µg/m ³	98.6	Increment ^d

a Based on the number of block 24 hour averages in an annual period.

b Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by DoP in consultation with DEC.

c Background PM₁₀ concentrations due to all other sources plus the incremental increase in PM₁₀ concentrations due to the mine alone.

d Incremental increase in PM₁₀ concentrations due to the mine alone.

Table 6.3 - Long term land acquisition criteria for deposited dust

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level
Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month

Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, 1991, AS 3580.10.1-1991: Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposited Matter - Gravimetric Method.

Air Quality Controls

6.6.2 Water sprays will be used at coal handling transfer points and on stockpile areas that are capable of generating dust.

- 6.6.3 All active roads will be clearly defined and the development of minor roads will be limited. Minor roads used regularly for access will be constructed so as to minimise dust generation (for example, by using well-compacted select material) and will be watered as required.
- 6.6.4 Speed limits will apply and be enforced on all roads on the mine site.
- 6.6.5 Water carts will be used on active haul roads and unsealed working areas. Surface moisture levels on all haul roads will be maintained at suitably elevated levels and/or chemical treatments will be applied to achieve 90% dust suppression.
- 6.6.6 Only the minimum area necessary for mining operations will be disturbed at any time.
- 6.6.7 Reshaping and rehabilitation of mining and overburden emplacement areas, and obsolete roads, will be undertaken as soon as practicable.
- 6.6.8 Drills will be fitted with dust suppressant measures.
- 6.6.9 Blasting design and operation will be managed to achieve optimum material breakage and movement to facilitate efficient mining while minimising the explosives used to achieve this outcome. This includes consideration of material and explosives characteristics, excavating equipment specifications, hole spacing and stemming material specification, accurate placement and drilling of holes, accurate explosives loading and well-managed stemming of blast holes. These measures will assist with minimising dust generation in the blasting process.
- 6.6.10 Cover crops will be established on any topsoil and subsoil stockpiles that are not planned to be used in less than six months.
- 6.6.11 Meteorological conditions will be monitored and weather data will be considered in the timing of blasts to assist with minimising the impacts of blast generated dust.
- 6.6.12 Dust control measures to be employed during construction will include use of water carts, defining of trafficked areas, imposition of vehicle speed limits and constraints on work under extreme unfavourable weather conditions.
- 6.6.13 A spontaneous combustion management strategy will be developed for the Project and will include coal stockpile and reject emplacement management measures, monitoring potential causes of spontaneous combustion events, and actions that can be implemented in the event of spontaneous combustion occurring.
- 6.6.14 Mine personnel will be provided with training in dust controls during induction for mine operations.
- 6.6.15 Centennial will install first flush systems on residential rain water tanks, at the request of landowners located within 4 kilometres of the Project Disturbance boundary.

Monitoring

- 6.6.16 Centennial will develop an Air Quality Monitoring Program. The Program will be prepared by Centennial in stages so that it best reflects the scope and extent of air quality impact during the relevant parts of the Project. Each stage of the Program will be prepared prior to the commencement by Centennial of that part of the Project.

- 6.6.17 The Air Quality Monitoring Program will include a combination of high volume samplers and dust deposition gauges to monitor the dust emissions of the Project; and an air quality monitoring protocol for evaluating compliance with the air quality impact assessment and land acquisition criteria in the Project Approval.
- 6.6.18 Centennial will utilise real-time dust monitoring to assist with pro-active dust control from mining.

Meteorological Monitoring

- 6.6.19 Centennial will continue monitoring at a suitable meteorological station operating in the vicinity of the Project in accordance with the requirements in *Approved Methods for Sampling of Air Pollutants in New South Wales*.

6.7 Water Management

- 6.7.1 Conceptual surface water controls have been designed to ensure that clean runoff is separated from runoff within disturbed mining and infrastructure areas. Conceptual sediment and erosion controls have been designed to ensure any runoff from disturbed areas is appropriately treated.
- 6.7.2 The drainage lines to be constructed as part of the final landform generally along the alignment of Anvil Creek as it existed prior to approval will be designed and constructed to provide a stable vegetated channel with a natural appearance that blends in with any adjoining riparian areas. Native trees and shrubs will be planted along the drainage alignment to enhance the long term stability of the drainage system and to provide suitable habitat for native fauna.
- 6.7.3 A comprehensive water quality monitoring program will continue throughout the life of the Project to monitor the surrounding surface water quality.

Groundwater

- 6.7.4 The existing groundwater monitoring bore locations will be maintained and a number of additional bores will be constructed at new locations beyond the mine pit areas, and in spoils following reshaping. Locations for these piezometers will be subject to consultation with DNR. These bores will be monitored every two months for a range of parameters including water table level, pH, and EC and further analyses every six months for total dissolved solids (TDS), major ions, and heavy metals. Daily monitoring of water levels by automatic data loggers at existing piezometers and in selected new piezometers will continue. Analyses of this data will include comparison against model predictions, establishment of triggers for remedial action, expert review as required, and reporting to regulatory agencies at appropriate intervals.
- 6.7.5 As discussed in **Section 5.3.2.3**, it is possible (but unlikely) that two existing groundwater wells not owned by Centennial may be affected by the Project. If the data obtained from the groundwater monitoring program indicates that the Project is having an adverse affect on these groundwater bores (that is, reduced groundwater yield from existing wells), then an alternative water supply will be provided by Centennial.

- 6.7.6 If monitoring indicates it is required, a barrier cut off wall within the alluvium associated with Big Flat Creek will be constructed to limit groundwater seepage into the mine.
- 6.7.7 Final voids have been designed to intercept leachate from overburden emplacement areas and minimise discharge of saline groundwater. Final void design will be reviewed at least three years prior to anticipated mine closure.
- 6.7.8 Analyses of the monitoring data will include comparison against model predictions, establishment of triggers for remedial action, expert review as required, and reporting to regulatory agencies at appropriate intervals. The monitoring results and the analyses will be reported in the AEMR.

Site Water Management Plan

- 6.7.9 Centennial will prepare a Site Water Management Plan for the Project. The Plan will be prepared by Centennial in stages so that it best reflects the scope and extent of water impact during the relevant parts of the Project. Each stage of the Plan will be prepared prior to the commencement by Centennial of that part of the Project. This Plan will include:
- a) Erosion and Sediment Control;
 - b) Surface Water Management and Monitoring; and
 - c) Ground Water Monitoring.

6.8 Ecological Management and Site Rehabilitation

- 6.8.1 Centennial will implement the Rehabilitation Strategy, Proposed Offset Strategy, and other ecological management and monitoring measures described in Sections 5.1.3 to 5.1.6 and Sections 5.4.6 to 5.4.8. The Proposed Offset Strategy includes the conservation and long term protection of the areas summarised in Table 6.4. The appropriate mechanism for achieving this long term protection will be determined in consultation with DoP and DEC.

Table 6.4 – Proposed Offset Areas (POA)

Area	Size
Conservation Area	1678*
Enhancement Area	629

* As requested by DEC, Centennial has supplemented the POA with an additional 600 hectares of land that will have a minimum of 61% (approximately 370 hectares) of treed vegetation.

- 6.8.2 Centennial is committed to long term protection of the POA and will finalise the appropriate tenure / conservation mechanism to achieve this, in consultation with DoP, DEC and DPI.
- 6.8.3 Centennial will seek to acquire all proposed components of the POA within one year of the date of project approval. If one or more proposed components of the POA

have not been acquired within this time frame, Centennial will consult with DEC and DoP to identify alternatives.

- 6.8.4 The land to be included in the conceptual corridors will include one external corridor to the north and one external corridor to the west, with the final location to be determined in consultation with DEC and DoP.
- 6.8.5 Centennial will take all reasonable steps to acquire all proposed component(s) of the conceptual corridors within one year of the date of granting of project approval. If proposed component(s) of the conceptual corridors have not been acquired within this time frame, Centennial will consult with DEC and DoP to identify alternatives.
- 6.8.6 Centennial will develop and implement a Biodiversity Management Plan in consultation with DEC, DPI and DoP. The Plan will be prepared by Centennial in stages so that it best reflects the scope and extent of biodiversity impact during the relevant parts of the Project. Each stage of the Plan will be prepared prior to the commencement by Centennial of that part of the Project. The Plan will include objectives, actions and performance measures, monitoring, review and action modification mechanisms, and provision for periodic consultation with appropriate agencies.
- 6.8.7 Centennial will progressively rehabilitate the site as described in **Section 5.1**.

Mine Closure Plan

- 6.8.8 At least three years prior to anticipated mine closure, Centennial will prepare a Mine Closure Plan in consultation with relevant agencies.
- 6.8.9 The Mine Closure Plan will:
- a) define the objectives and criteria for mine closure;
 - b) investigate options for the future use of the site, including any final void/s;
 - c) describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the Project; and
 - d) describe how the performance of these measures would be monitored over time.

Closure Criteria and Performance Measures

- 6.8.10 Centennial will develop closure criteria and performance measures as part of the development of the Biodiversity Management Plan (post-mining landscape) in consultation with DEC, DPI and DoP. Closure criteria and performance measures will be developed in relation to:
- Revegetation, retained vegetation management and regeneration;
 - Threatened Flora and Fauna species, Endangered Ecological Communities, significant habitats and features and aquatic habitats;
 - Specific ongoing management requirements including:
 - Fencing and Access Control
 - Weed management
 - Feral fauna control

- Bushfire management
- Track maintenance
- Nest box and salvaged hollows
- Appropriate monitoring of progress against closure criteria and performance measures.

6.9 Aboriginal Cultural Management

Site Management in Proposed Disturbance Area

- 6.9.1 Surface collection and grader scrapes will be undertaken for sites identified in the EA, prior to works commencing in these areas. Manual excavation will be undertaken in areas where the grader scrapes reveal features such as hearths, heat treatment pits, knapping floors or significant artefact concentrations.
- 6.9.2 Site AC13 will be subject to a detailed geomorphic investigation, a sub-surface test pitting program, large area manual excavation and grader scrapes.
- 6.9.3 Site SC10 will be managed for use by the Aboriginal and wider communities for teaching and educational purposes.

Conservation Management

- 6.9.4 The Proposed Offset Areas shown on **Figure 5.8** provide for conservation of archaeological terrain units evaluated as having equal or greater overall significance than in the Proposed Disturbance Area. Centennial is committed to conserving all 98 identified sites and the landscapes in which they occur, within the Proposed Offset Areas. The Proposed Offset Areas will conserve all the rockshelter sites within Wallaby Rocks, Limb of Addy Hill, Western Rocks and Anvil Hill. Anvil Hill rockshelter sites (four sites), however, may be affected by the indirect impacts of blasting. This impact will be mitigated and management strategies for the rockshelters on Anvil Hill are discussed in **Appendix 13**.

Aboriginal Cultural Heritage Management Plan

- 6.9.5 Centennial will prepare an Aboriginal Cultural Heritage Management Plan, in consultation with DEC and the relevant Aboriginal stakeholder groups. The Plan will be prepared by Centennial in stages so that it best reflects the scope and extent of aboriginal cultural heritage impact during the relevant parts of the Project. Each stage of the Plan will be prepared prior to the commencement by Centennial of that part of the Project. The plan will include:
- a) details of the surface salvage program for the Project and planned sub-surface investigation works, as described in **Appendix 13**;
 - b) a description of the measures that would be implemented to protect Aboriginal sites outside the Proposed Disturbance Area;
 - c) a detailed monitoring and management program for Aboriginal sites within the Conservation Area;
 - d) a description of the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during the Project; and

- e) a protocol for the ongoing consultation and involvement of the Aboriginal communities in the conservation and management of Aboriginal cultural heritage on the site.

6.9.6 A suitably qualified geotechnical consultant will undertake monitoring of the rock shelters considered to be of significant Aboriginal cultural value on Wallaby Rocks, Limb of Addy Hill and Western Rocks plateaus.

6.10 Heritage

- 6.10.1 Centennial will facilitate the compilation of a community based oral history to document the local history of Wybong and to mitigate against the impact of the proposal on the historical knowledge within the local community, as families that have resided in the area for many generations potentially move from the area.
- 6.10.2 Archival recording will be undertaken for all heritage items identified within the Proposed Disturbance Area, prior to disturbance of such sites, to the standards of local heritage significance as specified by the guidelines of the NSW Heritage Office.
- 6.10.3 The surface collection and salvage of Ham House 1 and Ham House 2 and associated dairies, creamery and structures will be undertaken.
- 6.10.4 Centennial will complete a detailed archival recording of the Castle Hill homestead to the standard of local heritage significance.
- 6.10.5 Potential further sites of local heritage value located within the area at which the relevant vibration criteria are predicted to be exceeded will be inspected, subject to landowner permission for access, and appropriately recorded prior to blasting. This will include assessing the structural status and identifying appropriate ameliorative measures, where relevant.

6.11 Traffic and Transport

- 6.11.1 On the basis that the Bengalla Link Road extension is completed prior to being required for access for this Project, all Project related traffic, including employee movements, will be restricted to the use of the extension of the Bengalla Link Road to Wybong Road to minimise impacts on Mangoola and Roxburgh Roads.
- 6.11.2 Wybong Road will be upgraded in association with MSC, from the intersection with Bengalla Link Road to the proposed mine access road. This includes an upgrade to a sealed carriageway minimum 6.5 metres wide, road marked centreline to relevant standards, enhancement of safety and advisory signage, and upgrade of sections to ensure safe operation of school bus zones and stops. All works will be undertaken in consultation with MSC and to the standards recommended in the detailed traffic assessment in **Appendix 16**.
- 6.11.3 The intersection of Wybong Road and the mine access road will be a Type B rural layout with a left turn auxiliary lane from Wybong Road into the proposed access road.

6.12 Greenhouse Gas

6.12.1 Centennial will implement the following approaches to improving energy efficiency and reducing greenhouse emissions from the Project:

- use of minimum 5% bio-diesel or similar in the mining fleet;
- implementation of an energy management system within 2 years of the commencement of mining;
- conduct of an energy efficiency audit each three years after the commencement of mining; and
- installation of gas boosted solar hot water system.

Centennial will continue to assess and implement energy and greenhouse management initiatives during the Project design, operation and decommissioning.

6.12.2 In addition to these initiatives, Centennial will review various emission trading schemes and abatement initiatives available and assess the suitability of these for the Project (for example, the NSW Greenhouse Gas Abatement Scheme). The objective of these measures is to seek further opportunities to reduce or offset GHG emissions from the Project.

6.13 Visual Controls

Vegetative Screenings

6.13.1 Where access allows, vegetative screens will be planted along the lower sections of Mangoola Road from Roxburgh Road to the new rail loop intersection and along the ridge extending west from Limb of Addy Hill.

6.13.2 Final revegetation of disturbed areas will consider the reduction of visual impacts.

Infrastructure

6.13.4 The link road from the CPP to the Tailings Dam will be relocated to avoid the knoll 500 metres east of the product stockpile. This will ensure existing vegetation on the knoll shields views of the CPP and stockpile from VP 2.

6.13.5 The colour of building roofs and walls will be selected to differentiate elements and reduce visual mass.

6.13.6 The spur on the north-east edge of Anvil Hill at RL 220 will be recreated as part of the overburden emplacement areas to assist screening of the CPP from Years 10 to 20 when viewed from the north around VP 10.

6.13.7 The north, east and south sides of the workshop and CPP will be clad to meet the noise modelling in the EA.

6.13.8 All floodlights in the open cut area will be shielded to the maximum extent practicable.

6.13.9 Workshop doors will be orientated south or south-west, where possible, to reduce light spill.

6.13.10 Where safe to do so, trucks on access roads will make use of portable visual edge markers to increase drivers' visibility of road edges when driving with dipped headlamps.

Operational Measures

6.13.11 At night, work will be restricted to lower levels on the overburden emplacement areas to reduce noise impacts which will also reduce potential direct lighting effects from random elements such as truck headlights and flashing beacons.

6.14 General Environmental Management, Monitoring, Auditing and Reporting

Environmental Monitoring Program

6.14.1 Within six months of Project Approval, Centennial will prepare an Environmental Monitoring Program for the Project in consultation with relevant agencies. This program will consolidate the various monitoring requirements of the Project Approval into a single document.

Appointment of Environmental Officer

6.14.2 Centennial will appoint a suitably qualified and experienced person on a full-time on-site basis to oversee the environmental performance of the Project.

Annual Reporting

6.14.3 Centennial will prepare an Annual Environmental Management Report (AEMR).

Independent Environmental Audit

6.14.4 Two years after commencement of development, and every three years thereafter, Centennial will commission and pay the full cost of an Independent Environmental Audit of the Project.

Community Consultative Committee

6.14.5 Within three months of this approval, Centennial will facilitate a Community Consultative Committee (CCC) in consultation with DoP and Council, and in accordance with relevant DoP guidelines.