



CHAPTER 11.0

Statement of Commitments



ENVIRONMENTAL IMPACT STATEMENT- AIRLY MINE EXTENSION PROJECT



11.0 STATEMENT OF COMMITMENTS

This chapter details the draft Statement of Commitments which outlines all proposed environmental management and monitoring measures to reduce adverse impacts of the Project.

The Director-General's Requirements

- A statement of commitments, outlining all the proposed environmental management and monitoring measures

Centennial Airly is committed to the identification, mitigation and management of potential risks from the continued operations of Airly Mine. Key management plans are already well developed and in place to manage and monitor the performance of these operations including those listed in Table 11.1.

Table 11.1: Existing Management Plans and Procedures

Management Plan or System	Purpose	Update Required Following Development Consent
Mining Operations Plan	Covers activities at Airly Mine during operations. The document has been prepared in accordance with the <i>Guidelines to the Mining, Rehabilitation and Environmental Management Process prepared by the NSW Department of Mineral Resources, Updated April 2012.</i>	The Mining Operations Plan will be revised in accordance with the Department Guidelines.
Landscape and Rehabilitation Management Plan	To minimise and manage potential landscape and rehabilitation issues and to return the land to a pre-operation state or better, in line with the relevant consent conditions and in consultation with the key stakeholders.	The plan will be superseded by a new Rehabilitation Management Plan and will be prepared in accordance with the conditions of the new development consent.
Environmental Monitoring Plan	Provides details of monitoring and reporting of the various management plans.	The Plan will be updated in accordance with the conditions of the new development consent.
Stakeholder Engagement Plan	The objectives are to: ■ effectively communicate with relevant stakeholders ■ define responsible parties within Centennial in respect of the communication paths and forums ■ monitor and manage issues from relevant stakeholders ■ maintain a complaints protocol.	The Plan will be updated in accordance with the conditions of the new development consent.
Borehole Construction Environmental Management Plan	Project specific plan developed to ensure appropriate environmental management practices are followed during borehole construction.	No
Pollution Incident Response Management Plan	Covers the key actions to minimise the occurrence of a pollution incident and to manage a pollution incident if one occurs (during and after a pollution incident). The plan has been prepared for managing the impact to human health (employees and nearby neighbours) and the environment (onsite and offsite).	No
Air Quality Management Plan	Provides for the monitoring and management of air quality.	The Plan will be updated in accordance with the conditions of the new development consent.
Noise Management Plan	Sets out procedures for monitoring, assessing and responding to noise impacts.	The Plan will be updated in accordance with the conditions of the new development consent.



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Management Plan or System	Purpose	Update Required Following Development Consent
Water Management Plan	Coordinates the management of water within the Airly Mine lease area in an efficient and sustainable manner.	The Plan will be updated in accordance with the conditions of the new development consent.
Waste Minimisation and Management Plan	To achieve waste minimisation through maximising re-use and recycling, to ensure environmentally responsible disposal of waste materials not suitable for re-use or recycling and to ensure environmental protection throughout all stages of waste handling, storage, collection and disposal.	The Plan will be superseded by a Waste Management Plan and will be prepared in accordance with the conditions of the new development consent.
Contractor Management Plan	This plan aims to ensure that all activities carried out on behalf of Airly by external contracted parties comply with legislative requirements, internal and external practices and guidelines.	No
Fire Management Plan	Sets out the procedures for reporting fire and for the inspection and maintenance of firebreaks and asset protection zones at the pit top.	The Plan will be updated in accordance with the conditions of the new development consent.
Strata Failure Management Plan	In accordance with Clause 28b (ii) of the <i>Coal Mine Health and Safety Regulation 2006</i> the objectives of this management system are to ensure as far as reasonably practicable the safety of all persons present at the coal operation with regard to underground strata.	This plan will be reviewed in consultation relevant geotechnical expertise to address any changes in mining methodology approved in the new consent. This review will include provisions for monitoring and management actions defined in Section 8.6.
Ventilation Arrangements	In accordance with Clause 21 of the <i>Coal Mine Health and Safety Regulation 2006</i> , Airly Mine has implemented Ventilation Arrangements to ensure as far as reasonably practicable the safety of all persons present at the coal operation with regard to mine ventilation.	No

The DGRs issued for the Project require that the EIS includes a summary of all proposed environmental management and monitoring measures, herein referred to as a Statement of Commitments. In addition to the above existing plans of management, Table 11.2 and Table 11.3 detail the Statement of Commitments for the Project that Airly is willing to adopt for implementation throughout the Project development phase and through to the end of the Project life, respectively, should approval be granted under Part 4 of the EP&A Act.



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Table 11.2: Project Development Phase - Statement of Commitments

Desired Outcome	Action
Development Phase	
All construction is minimizes potential impacts to the environment.	Erosion and sediment control measures will be implemented in accordance with the guidelines 'Managing Urban Stormwater – Soils and Construction, Volume 2E: Mines and Quarries' (DECC2008). Prior to construction a Construction Environmental Management Plan will be prepared and will include a: ■ Noise Management Plan ■ Air Quality Management Plan ■ Site Water Management Plan It is also proposed to develop the following plans: ■ a management plan for the undermining of the tower complex in consultation with the owner of the infrastructure ■ Weed Management Plan ■ Construction Traffic Management Plan ■ \.

Table 11.3: Project Operation - Statement of Commitments

Desired Outcome	Action
General	
All operations are undertaken in a manner that will minimise the environmental impacts associated with the Project.	Operations will be undertaken in accordance with the description provided in this EIS.
Hours of Operation	
All operations are undertaken within the approved operating hours.	Operations will be undertaken 24 hours a day 7 days a week.
Subsidence	
All subsidence impacts to surface sensitive features are minimised.	Mining operations will be conducted in accordance with the design parameters and those parameters will be implemented in the areas defined in this EIS. A new Extraction Plan will be developed as required by the new consent and in accordance with any requirements of <i>Mining Act 1992</i>. This Plan will provide detail around the management of subsidence impacts on the natural and built environment. The Plan is supported by a Subsidence Monitoring and Reporting Programme and Community Consultation Process. The new Plan will incorporate requirements for mine design criteria, implementation, monitoring, management of mining systems and response plans to manage impacts to landscape, surface water, groundwater, and ecology impacts identified in as identified in Chapter 8.0 and in Sections 10.1, 10.2 and 10.3 of this EIS. The Plan will be developed in consultation with DITRIS (DRE) and OEH (land owner). The Plan will include subsidence management elements as follows. ■ Visual inspection of all mining areas prior, during and after mining activities will be undertaken.



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Desired Outcome	Action
	■ Subsidence monitoring of initial panel and pillar mining on Mount Airly to confirm mining system performance and establish correlation between surface subsidence and underground geotechnical monitoring. ■ Ongoing underground geotechnical monitoring to demonstrate mining system performance will be undertaken. ■ Implement where practical remote subsidence monitoring techniques.
Surface Water, Groundwater, Geomorphology and Aquatic	
All surface water groundwater and aquatic impacts are minimised to the greatest extent possible.	The existing Water Management Plan for Airly Mine will be revised, including the preparation of a Groundwater Monitoring and Management Plan (GMMP). The GMMP will include the continuation of the existing groundwater monitoring program as outlined in Section 3.14.4, as well as the following: ■ Additional groundwater monitoring bores will be installed during the pre-mining phase within Gap Creek and Genowlan Creek alluvium in the areas of predicted groundwater drawdown and monitored for groundwater levels and quality (where accessible). An additional four monitoring bores (including loggers) are planned to be installed in late 2014. ■ Daily groundwater volumes transferred to the surface facilities area will be monitored. ■ The GMMP will establish critical threshold levels for groundwater levels and groundwater quality to trigger additional assessment and management, and will define the mechanism for identifying and reporting exceedances. Action will be taken if the Level 1 minimal impact considerations (or other critical threshold levels) are found to be exceeded. ■ Groundwater monitoring data will be audited on an annual basis and compared to hydrogeological modelling predictions. The GMMP will define the mechanism for identifying and reporting variations from predictions. ■ Should more than 278 ML/year of groundwater flow into the underground mine workings (i.e. more than the existing WALs) due to greater than predicted storage within the Permian strata (particularly within the old shale workings), it will be necessary for Centennial Airly to purchase an additional groundwater WAL to cover the excess groundwater volume. ■ Monitor current surface and groundwater monitoring points. The surface water monitoring will include the proposed REA Dam and the associated licensed discharge point. Additional groundwater monitoring points to be installed during the pre-mining phase within Gap Creek and Genowlan Creek alluvium in the areas of predicted groundwater drawdown. The surface and groundwater monitoring points will monitor the following parameters: ■ Piezometric height ■ Groundwater quality ■ Groundwater flow ■ Surface water quality and flow. ■ Monitor groundwater bores on adjacent private properties to provide understanding of regional groundwater systems. Parameters to be monitored will be: ■ Piezometric height ■ Groundwater quality



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Desired Outcome	Action
Aboriginal and Historical Heritage Management	
Ensure that identified and unidentified Aboriginal and Historic Sites are appropriately managed.	The sites identified in Chapter 8.0 and Section 10.3 will be subject to a monitoring programme within the Cultural Heritage Management Plan that will: ■ monitor for impacts caused by subsidence on identified archaeological sites prior to, during and post mining activities. The condition of the site will be compared with baseline. If the site is found to be damaged Centennial Airly will notify OEH and work in consultation to mitigate further impacts. Monitoring will cease once mining is complete under a particular site and inspection with NPWS demonstrate no further impact has occurred ■ Centennial Airly will follow the measures contained in the SCA Plan of Management in relation to the Airly shale mining complex ■ if unrecorded Aboriginal object/s or historical cultural heritage material are identified in the Project Area during works, then all works in the immediate area must cease and the area should be cordoned off. NPWS and OEH will be notified so that the site can be adequately assessed and a Plan of Management developed. ■ In the unlikely event that skeletal remains are found, work will cease immediately in the vicinity of the remains and the area will be cordoned off. The local police will be contacted to make an initial assessment to ascertain whether the remains are part of a crime scene or possible Aboriginal remains. If this is the case, the local police will contact OEH so that they can determine if the remains are Aboriginal.
Traffic and Transport	
Project-related impacts on the road network are limited.	Airly Mine will implement a construction traffic management plan during construction of the CPP. This will include: ■ consideration of shift start and finish times to avoid excessive usage of intersections by both Airly and contraction workers ■ consideration of delivery times for large items of plant during construction.
Noise and Vibration	
All noise impacts are minimised to the greatest extent possible.	The following noise mitigation and management measures will be implemented to reduce the noise impact of the Project: ■ preparation of a Noise Management Plan including noise monitoring program ■ noise levels are to be maintained at 35dBA or less at all identified receptors.
Air Quality	
All air quality impacts are minimised to the greatest extent possible.	Existing monitoring measures will continue for Airly Mine, consisting of the four static dust deposition gauges.



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Desired Outcome	Action
Decommissioning and Rehabilitation Strategy	
Rehabilitation to be conducted in accordance with Industry Standards.	The Proposed REA will be rehabilitated in stages and limited progressive vegetation of batters will occur with each lift of the REA. Native species tree planting at the base of the REA will be undertaken prior to the commencement of the REA establishment to provide visual screening. On the completion of mining and associated activities, all disturbed areas will be rehabilitated, through the following stages: ■ Decommissioning: demolition of infrastructure ■ Landform Establishment: shaping, bulk earthworks and construction of drainage works ■ Growth Media Development: topsoiling and application of soil ameliorants; ■ Ecosystem Establishment: revegetation ■ Ecosystem Sustainability: monitoring and maintenance.
Waste	
All waste impacts are minimised to the greatest extent possible.	Dirty water management structures will be constructed in association with the work shop and refuelling facilities. This will include: ■ drainage to a collection point ■ collection of dirty water and separation of oil and grease from the waste water ■ disposal of waste oil and grease ■ direction of remaining dirty water to the dirty water management system
Hazards	
All hazard impacts are minimised to the greatest extent possible.	■ dangerous goods will be stored in accordance with normal dangerous goods storage procedures. ■ spill containment will be managed in accordance with relevant Australian Standards ■ safety hazards will be managed through occupational health and safety procedures ■ environmental hazards will be managed through the EMP ■ fire protection infrastructure and plant (including fire extinguishers, mains hydrants and hoses) will be provided and maintained in accordance with relevant Australian Standards ■ site emergency response plans including emergency contact numbers are provided within management system for the site ■ maintenance of asset protection zones around existing and proposed infrastructure.