



## **Environmental Management Strategy (EMS)**

Springvale Coal Services Operation

February 2021



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#### **Abbreviations**

**AEMR** Annual Environmental Management Report

**BMF** Environmental Business Management Framework

**CCC** Community Consultative Committee

CCL Consolidated Coal Lease
CEO Chief Executive Officer

CHPP Coal Handling Processing Plant

**CL** Coal Lease

**DPIE** NSW Department of Planning, Industry and Environment

**EA** Environmental Assessment

EMS Environment and Community Database
EMS Environmental Management System

**EPA** NSW Environmental Protection Authority

EPL Environment Protection Licence
HSE Health, Safety and Environment

LS Lidsdale Siding
ML Mining Lease

MLA Mining Lease Application
 MOP Mining Operations Plan
 MPL Mining Purposes Lease
 NPI National Pollutant Inventory

NSW New South Wales

PIRMP Pollution Incident Response Management Plan

PLL Private Land Lease

RR NSW Resources Regulator

**SCSO** Springvale Coal Services Operations

WAL Water Access Licence
WCS Western Coal Services

## **Document Control**

DOCUMENT OWNER: DOCUMENT ORIGINATOR:

Neil Thompson (Centennial Coal)

Neil Thompson (Centennial Coal)

Demelza Scott (GHD Pty Ltd)

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SCSO Environmental Management Strategy	0	5 March 2021	Review to merge the Western Coal Services EMS and Lidsdale Siding EMS	June 2021

#### 1. Introduction

#### 1.1. Springvale Coal Services Operations

Springvale Coal Services Operations (SCSO) is managed as part of Centennial Coal's (Centennial's) Springvale Coal Mine operations located in the western coalfields near Lithgow in New South Wales.

Coal is mined using underground longwall mining methods and is transferred by conveyor to the surface facilities area, where it is either transported by a dedicated overland conveyor to Mt Piper Power Station (MPPS) or processed for export.

SCSO manages two sites as part of this operation, the Springvale Coal Services Site under the Western Coal Services (WCS) Development Consent SSD-5579, and Lidsdale Siding (LS) under the LS Project Upgrade Project Approval PA 08\_0223. Management of SCSO is undertaken via a management team reporting to the Manager SCSO. Refer to Section 3 for the organisation structure and roles and responsibilities.

#### 1.2. Western Coal Services

WCS is located northeast of the townships of Wallerawang and Lidsdale along the Castlereagh Highway. The operation is bordered by the Blackmans Flat Village to the east, Ben Bullen State Forest to the south and the Mount Piper Power Station to the west.

Operations at WCS involve transporting and processing coal produced from underground mining at Springvale Mine. This product is stockpiled at WCS for processing in the Coal Handling Preparation Plant (CHPP) or for delivery to Mt Piper Power Station. Alternatively, coal processed at the CHPP is delivered to LS via the overland conveyor for despatch by train to both Port Kembla and Newcastle to export markets by ship. Figure 1-1 outlines WCS and its surrounding environment.

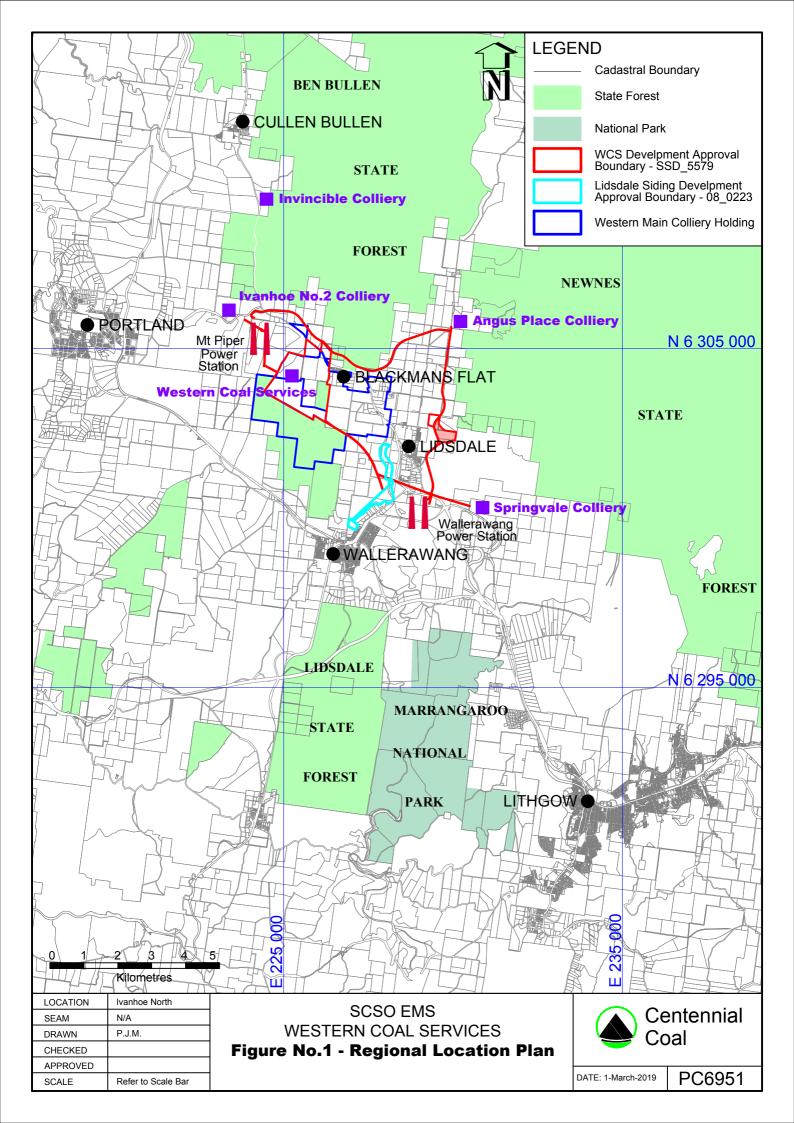
WCS operates under Environment Protection Licence (EPL) 21229 (Appendix 3).

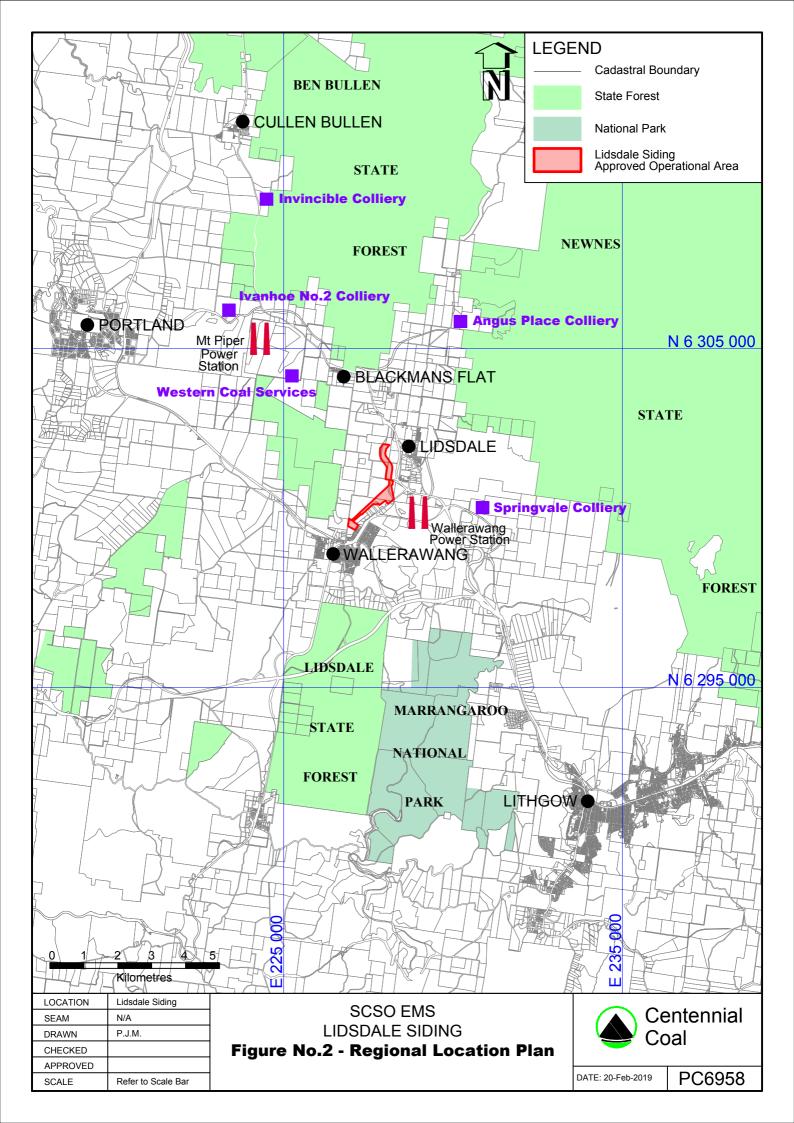
#### 1.3. Lidsdale Siding

LS is located on the northern edge of the township of Wallerawang opposite Wallerawang Power Station.

LS is currently used for the export of coal from Centennial Coal's western region mines to the Port Kembla and Newcastle coal terminals. Coal is also imported from western region mines for processing and delivery to the Mount Piper Power Station (MPPS) via a conveyor linking WCS to LS. Figure 1-2 outlines LS and its surrounding environment. The facility is managed and run remotely by staff from Springvale Coal Services.

LS operates under EPL 5129 (Appendix 3).





#### 1.4. Background

This SCSO Environmental Management Strategy (EMS) has been developed in accordance with the approvals for WCS and LS as follows:

- WCS State Significant Development Consent SSD-5579 issued by the Department of Planning, Industry and Environment (DPIE) on 4 April 2014 as modified on 23 August 2019.
- LS Project Approval PA 08\_0223 approved by the Planning Assessment Commission on 3 May 2013 as modified in October 2020.

#### 1.5. Objectives

SCSO operates under Centennial's EMS including:

- Centennial's Environmental Business Management Framework (BMF)
- Centennial's Environment and Community Policy, and
- This EMS

This EMS is applicable to all persons undertaking work at SCSO including employees, contractors and visitors to the sites, and all activities undertaken across the sites.

This EMS has been developed to:

- Summarise key components of the Centennial BMF as they relate to SCSO
- Provide strategic framework for environmental management at SCSO
- Summarise the environmental approvals for SCSO
- Identify environmental risks associated with SCSO activities
- Outline the various management plans and monitoring programs that are maintained to manage and mitigate environmental impacts associated with SCSO, and
- Nominate roles and responsibilities for environmental management at SCSO

#### 1.5.1. Centennial Coal Environmental Business Management Framework

The BMF sets the minimum standards for management of the environment and the communities Centennial works in. Centennial has identified its environmental risk profile through a comprehensive review of impact assessments, costs, site based and enterprise wide risk assessments and incident analysis. This review has identified the following key risk areas relevant to Centennial's business:

- Operating Environment (Water, Air, Land, Noise)
- Biodiversity and Land Management (including Cultural Heritage Management)
- Rehabilitation and Mine Closure
- Environmental Management Systems (including data management), and
- Community Engagement

The BMF outlines the approach to setting minimum performance standards, developing and implementing strategy, reporting on environmental performance, reducing inconsistency and duplication, and reducing the costs of environmental monitoring and management. The BMF is provided in Appendix 9.

#### 1.5.2. Centennial Coal Environment and Community Policy

Centennial are committed to continual improvement in the environmental management of the Company's operations and to developing effective community relationships. Centennial recognises the importance of effectively managing the environmental impacts associated with each mine and, over the years, has developed an Environment and Community Policy that commits Centennial to continual improvement in its environmental management and performance. The Policy (Appendix 4) has been endorsed by the Managing Director and Chief Executive Officer and is a commitment from top management to all of Centennial's employees. The Policy's objective, beliefs, and strategy are provided below.

#### **Objective**

To conduct our business in an efficient and environmentally responsible manner; compatible with the expectations of our shareholders, government, employees and the community.

#### **Beliefs**

- We all have a responsibility for minimising impact to the environment.
- Environmental performance can always be improved.
- Respecting our stakeholders is essential to business success.

#### Strategy

This objective will be achieved by:

- Implementation of appropriate risk management strategies to manage environmental responsibilities.
- Developing and maintaining relationships with all stakeholders through meaningful consultation and engagement.
- Greater integration of environmental and sustainability management into our business.
- Efficient use of natural resources.

Centennial's Environment and Community Policy forms part of a broader EMS. The Centennial EMS has been developed to ensure that Centennial's strategic outlook for environmental management is more clearly and concisely articulated. The Centennial EMS includes objectives to assist Centennial's operations in meeting the principles within the Environment and Community Policy. The Centennial EMS is reviewed every year to ensure objectives remain contemporary.

The Policy is communicated to all employees working for or on behalf of the organisation through staff and contractor inductions and is displayed in the main office of WCS and LS. It is also available on the organisation's intranet. In addition, the policy is made available to the public on the Centennial website at: <a href="https://www.centennialcoal.com.au">www.centennialcoal.com.au</a>. The Company Mission and Values are also available on the internet site.

#### 1.6. Approvals and Licensing

Activities at SCSO are conducted in accordance with applicable State and Commonwealth environmental, planning, and natural resource legislation. Centennial maintain a register of relevant environmental legislative and regulatory requirements which is reviewed and updated as required.

SCSO operates under a number of different approvals as provided on Centennials website and outlined in the following sections including:

- Development Consents and approvals issued by the DPIE, including EIS commitments
- EPLs issued by the NSW Environment Protection Authority (EPA)
- Mining leases and Mining Operations Plans (MOP) approved by NSW Resources Regulator (RR), and
- Water Licences and approvals issued by WaterNSW

#### 1.6.1. Conditions of Consent

All activities at SCSO are conducted in accordance with the WCS Development Consent (SSD-5579) and LS Project Approval (PA 08\_0223) (refer to Appendix 2). Table 1 outlines the key conditions in SSD-5579 and PA 08\_0223 relating to the preparation of the Environmental Management Strategy and its required content.

**Table 1. SCSO Conditions of Consent** 

Condition Number	Approval Requirements	Where Addressed
WCS SSD-	5579	
	The Applicant must prepare and implement an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:  (a) be submitted to the Secretary for approval within 6 months of the date of this approval, unless the Secretary agrees otherwise;	Noted. Original submitted prior to 4 October 2014.
	<ul><li>(b) provide the strategic framework for environmental management of the development;</li></ul>	Section 1.5
	(c) identify the statutory approvals that apply to the development;	Section 1.6
	<ul> <li>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;</li> </ul>	Section 3.1
Schedule 5 Condition 1	describe the procedures that would be implemented to:         keep the local community and relevant agencies informed about the operation and environmental performance of the mining complex;	Section 3.4
	<ul> <li>receive, handle, respond to, and record complaints;</li> <li>resolve any disputes that may arise;</li> <li>respond to any non-compliance;</li> </ul>	Section 3.5
	<ul> <li>respond to emergencies; and</li> <li>include:</li> <li>copies of any strategies, plans and programs approved under the conditions of this consent; and</li> </ul>	Section 1.7
	<ul> <li>a clear plan depicting all the monitoring to be carried out in relation to the development.</li> </ul>	Section 4.2 and Appendix 1
Schedule 5 Condition 3	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:  (a) detailed baseline data;	Refer to management plans

Condition Number	Approval Requirements	Where Addressed
	<ul> <li>(b) a description of:</li> <li>the relevant statutory requirements (including any relevant approval. licence or lease conditions);</li> <li>any relevant limits or performance measures/criteria;</li> <li>the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;</li> </ul>	Section 1.6  Refer to  management plans
	(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Refer to management plans
	<ul> <li>(d) a program to monitor and report on the:         <ul> <li>impacts and environmental performance of the development;</li> <li>effectiveness of any management measures (see (c) above);</li> </ul> </li> </ul>	Section 3.3 and Section 4 Refer to management plans
	(e) a contingency plan to manage any unpredicted impacts and their consequences;	Refer to management plans
	(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 3.8, Section 4.4 and Section 4.5
	<ul> <li>(g) a protocol for managing and reporting any:</li> <li>incidents;</li> <li>complaints;</li> <li>non-compliances with statutory requirements; and</li> <li>exceedances of the impact assessment criteria and/or performance criteria: and</li> </ul>	Section 3.5, Section 3.4 and Section 3.8 Refer to management plans
	(h) a protocol for periodic review of the plan.	Section 4.5
LS PA 08_0		
	The Proponent must prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Planning Secretary. This strategy must:  (a) be submitted for approval to the Planning Secretary within 9 months of the date of this approval;	Noted. Originally submitted prior to 3 February, 2014.
	(b) provide the strategic framework for the environmental management of the project;	Section 1.5
	(c) identify the statutory approvals that apply to the project;	Section 1.6
	(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;	Section 3.1
Schedule 5 Condition 1	<ul> <li>(e) describe the procedures that would be implemented to:         <ul> <li>keep the local community and relevant agencies informed about the operation and environmental performance of the project;</li> <li>receive, handle, respond to, and record complaints;</li> <li>resolve any disputes that may arise during the course of the project;</li> </ul> </li> </ul>	Section 3.4
	<ul><li>respond to any non-compliance;</li><li>respond to emergencies; and</li></ul>	Section 3.5
	<ul> <li>(f) include:</li> <li>copies of any strategies, plans and programs approved under the conditions of this approval; and</li> </ul>	Section 1.7
	<ul> <li>a clear plan depicting all the monitoring required to be carried out under the conditions of this approval.</li> </ul>	Section 4.2 and Appendix 1
Schedule 5 Condition 2	The Proponent must ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:  (a) detailed baseline data;	Refer to management plans

Condition Number	Approval Requirements	Where Addressed
	<ul> <li>(b) a description of:</li> <li>the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>any relevant limits or performance measures/criteria;</li> <li>the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;</li> </ul>	Section 1.6  Refer to  management plans
	(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	Refer to management plans
	<ul> <li>(d) a program to monitor and report on the:         <ul> <li>impacts and environmental performance of the project;</li> <li>effectiveness of any management measures in (c) above;</li> </ul> </li> </ul>	Section 3.3 and Section 4 Refer to management plans
	(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Refer to management plans
	<ul> <li>(f) a protocol for managing and reporting any:</li> <li>incidents;</li> <li>complaints;</li> <li>non-compliances with statutory requirements; and</li> <li>exceedances of the impact assessment criteria and/or performance criteria; and</li> </ul>	Section 3.5, Section 3.4 and Section 3.8 Refer to management plans
	(g) a protocol for periodic review of the plan.  Note: The Planning Secretary may waive some of these requirements if they are unnecessary for particular management plans.	Section 4.5

#### 1.6.2. Other Approvals and Licences

Table 2 presents a summary of other approvals, licenses and leases currently held for SCSO.

**Table 2. Other Approvals and Licences** 

Name	Description	Issued by	Date approved	Expiry date
EPL 21229	Environmental Protection Licence WCS	NSW EPA	17/05/2019	17/05 (Anniversary Date)
EPL 5129	Environmental Protection Licence covering Lidsdale Coal Loading Facility.	NSW EPA	09/05/2000	04/08 (Anniversary Date)
ML 204	Mining lease – Centennial Springvale	RR	17/07/1990	27/05/2033
ML 564	Mining lease – Centennial Springvale	RR	02/05/1922	02/05/2023
ML 1319	Mining lease – Centennial Springvale	RR	05/07/1993	05/07/2035
ML 1352	Mining lease – Centennial Springvale	RR	23/06/1994	23/06/2036
ML 1448	Mining lease – Centennial Springvale	RR	31/05/1999	30/05/2020 <sup>1</sup>
CCL 733	Consolidated Coal lease – Centennial Springvale	RR	23/05/1990	03/07/2027
CL 394	Coal lease – Centennial Springvale	RR	27/05/1992	27/05/2034
CL 361	Coal lease – Centennial Springvale	RR	17/07/1990	16/07/2032
PLL 133	Private land lease – Centennial Springvale	RR	10/08/1922	10/08/2024
MPL 314	Mining purposes lease – Centennial Springvale	RR	03/08/1993	03/08/2035
WAL 24362	Water Access Licence – Groundwater source	WaterNSW	01/07/2011	13/04/2025

<sup>&</sup>lt;sup>1</sup> Renewal sought for ML 1448

Name	Description	Issued by	Date approved	Expiry date
WAL 25774	Water Access Licence – Unregulated river source	WaterNSW	01/07/2011	10/03/2026
Site lease	Site lease for the land at Lidsdale Siding	RailCorp NSW	TBC	TBC

#### 1.7. Environmental Management Plans

Consistent with Schedule 5 Condition 3 of SSD 5579 and Schedule 5 Condition 2 of PA 08\_0223, Centennial and SCSO has developed a number of site specific and western region environmental management plans. These environmental management plans have been prepared in accordance with the conditions of SSD 5579 and PA 08\_0223 and other relevant guidelines and include:

- Western Region Noise Management Plan
- Western Region Air Quality and Greenhouse Gas Management Plan
- Western Region Aboriginal Cultural Heritage Management Plan
- Western Region Historic Heritage Management Plan
- Western Region Biodiversity Offset Strategy
- Riparian Habitat and Catchment Improvement Plan
- WCS Water Management Plan
- WCS MOP
- LS Water Management Plan
- LS Rehabilitation and Closure Plan
- LS Biodiversity Management Plan

Other management plans, strategies and programs that have been developed by SCSO to manage environmental impacts or comply with other approvals/licences include:

- LS Construction Environmental Management Plan
- Upper Coxs River Action and Management Plan
- SCSO Radiation Management Plan
- SCSO Bushfire Management System
- SCSO Pollution Incident Response Management Plan (PIRMP)
- WCS Construction Environmental Management Plan
- WCS Waste Management System

Each document provides the identification of potential environmental impacts, application of mitigation measures and development of assessment criteria to ensure an acceptable level of performance is achieved.

The plans will be reviewed and modified as required according to monitoring results, environmental performance and any changes in assessment criteria or government requirements.

This document should be read in conjunction with the site-specific environmental management plans (EMPs) for WCS and LS. Approved EMPs are published on Centennials website.

Figure 1-3 displays the structure of SCSO's Environmental Management System, identifying the requirements of regulatory approvals through to reporting requirements as outlined in SCSO environmental management plans.

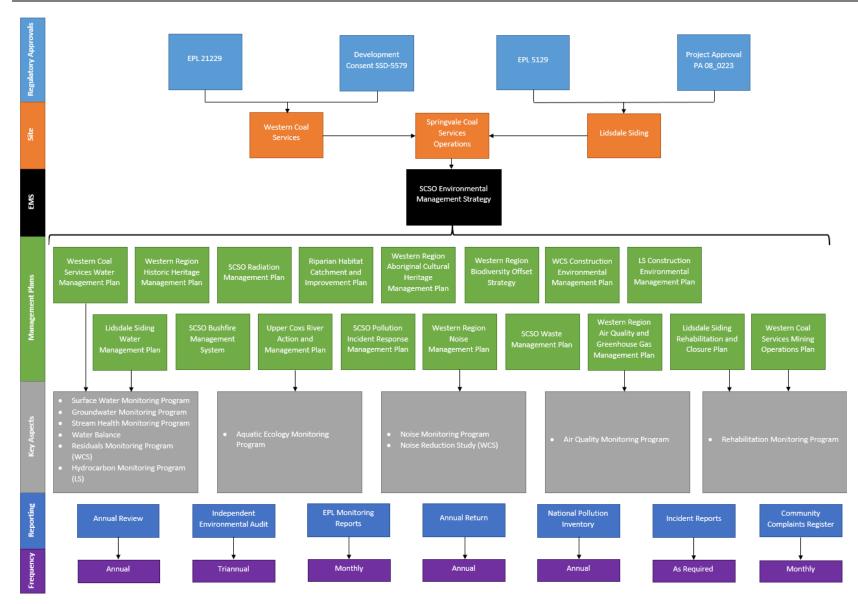


Figure 1-3. Environmental Management System Structure

#### 2. Implementation

#### 2.1. Environmental Risk Management

To implement the EMS and effectively manage environmental aspects, SCSO, using a risk-based approach, have developed and implemented controls to minimise environmental risks as low as is reasonably practicable.

A revised environmental risk assessment workshop was conducted with GHD and SCSO on 20 September 2017 to review the identified risks and assess them using the Centennial Risk Assessment Matrix (Appendix 5). The environmental risk assessment is reviewed and updated concurrently and periodically with this EMS.

Environmental risks were identified through:

- Systematic identification of all activities undertaken by SCSO. Activities include those that are infrequent, supporting activities such as administration and maintenance, and services provided by contractors
- Identification of the ways those activities can interact with the environment
- Identification of the environmental impacts associated with the environmental aspects
- Analysis of the risks to determine risk rating, and
- Evaluation of the risks to determine which environmental aspects and impacts are significant risks to the environment and/or SCSO

The environmental activities that pose the highest risk were identified below:

- Contamination of groundwater
- Noise disturbance
- Contamination of surface water
- Discharge of site water to the environment that exceeds licence limits
- Damage to Aboriginal cultural heritage items
- Seepage from site dirty water storages

Environmental risks and impacts identified as part of SCSO activities are managed through the site management plans that incorporate specific mitigation measures. The risks identified from the risk assessments are considered in the review of site objectives and targets, management programs and procedures.

#### 3. Environmental Management Structure

#### 3.1. Roles and Responsibilities

Environmental management is the responsibility of all SCSO employees and contractors. The position descriptions for each role at the site include requirements for implementation of the EMS within specified areas of responsibility, and where required by site management, specific environment and community roles and functions.

Roles and responsibilities are communicated to employees through induction and training as outlined in Section 3.2.

The organisational structure for environmental management at SCSO is provided in Figure 3-1. SCSO personnel are supported by a number of other environmental personnel within Centennial. These roles are not included in Figure 3-1 as they do not have direct responsibilities for the implementation of the EMS.

Specialist consultants are engaged to develop management plans, and conduct monitoring and audits as required by the conditions of consent.

SCSO maintain a Health, Safety and Environment (HSE) Committee made up of representatives from management and employees which is chaired by the elected Site Safety Representative. The HSEC meets monthly to discuss HSE issues and distribute relevant information to employees through minutes displayed on noticeboards.

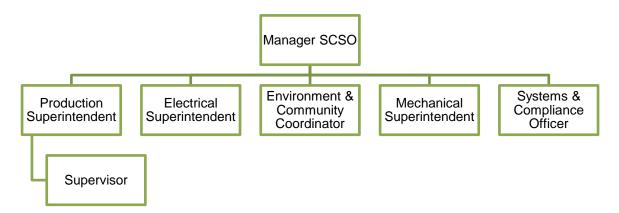


Figure 3-1. Springvale Coal Services Operations Organisation Chart

**Table 3. Key Personnel and Accountability** 

Position	Responsibility
Manager SCSO	<ul> <li>Overall responsibility for environmental compliance with licences and approvals</li> <li>Authority to complete environment and community work on behalf of Centennial</li> <li>To ensure that EMS requirements are established, implemented and maintained in accordance with the Centennial EMS Framework Document which are consistent with ISO14001</li> <li>Monitor relevant site environmental performance – compliance, risk assessment and improvement actions</li> <li>Report on the performance of the EMS to senior management for review and as a basis for improvement of the system</li> <li>Plan for adequate resources to implement the EMS</li> <li>Approve revised versions of the EMS</li> <li>Ensure site documentation is retained in a controlled format at SCSO</li> <li>Develop and implement an audit and review schedule for the site, and</li> <li>Investigate community complaints and/or enquiries in consultation with the Environment &amp; Community Coordinator and review outcomes of investigations</li> </ul>
Environment & Community Coordinator (ECC)	<ul> <li>Report environmental performance to the Manager SCSO and Centennial Group Environment Manager</li> <li>Authority to complete environment and community work on behalf of the Manager SCSO and Centennial Group Environment Manager</li> <li>Coordinate environmental monitoring, reporting, inspections, environmental training, appropriate regulatory authority liaison, community complaints register, rehabilitation planning, representation on the community consultative committee, community liaison</li> <li>Prepare the necessary documentation to demonstrate compliance and meet legislative obligations</li> <li>Review outcomes of environmental incident investigations</li> <li>Record, investigate and respond to complaints and develop corrective actions to respond</li> <li>Allocate resources within area of responsibility and budget</li> <li>The implementation of and adherence to the EMS</li> <li>Provide adequate training to employees and contractors regarding their requirements under the EMS</li> <li>Management of environmental contractors, and</li> <li>Delegate tasks associated with the EMS when responsible personnel are absent</li> </ul>
All Employees and contractors	<ul> <li>Become familiar and comply with SCSO EMS at all times</li> <li>Support Centennial and SCSO commitment to environmental management</li> <li>Work in a manner that will not harm the environment</li> <li>Report all environmental incidents/complaints, and</li> <li>Report any inappropriate environmental management practices and take immediate action</li> </ul>
HSE Committee	<ul> <li>Distribute relevant information related to workplace safety and the environment to all site employees</li> <li>Oversee a range of items to inform the workforce operational staff (including all contracted staff) of operational and industry HSEC matters</li> <li>Oversee the formal communication of:         <ul> <li>Orders, Notices, Advice of Information from District Inspectors of Coal Mines or Safety and Health Representative</li> <li>Any advice received under Section 23 of the Work Health and Safety (Mines) Act, 2013</li> <li>Advice or Notice given under S23 or S31(2) of the Act or a report by a Safety and Health Representative under S46 of the Act</li> <li>Any information, orders or publications relating to safety or health sent to the operation by the Department, Chief Inspector or other government official that is relevant to the duties of any people working at the site.</li> </ul> </li> </ul>

Position	Responsibility			
Position	Any other Notices, Advice or Order given or served by a government official     Provisions of the Act or Regulations which are relevant to persons working at the Coal Operation     Communication between the SCSO management team members as related to HSEC     Incident notifications and investigation results and reports as per SCSO-MS-019 Incident, Incident Investigation Management System.     SCSO Operational HSEC performance     Documented Tool Box talks issued on any matter considered relevant to any accident/incident which may have an effect on the health and safety of persons working at the Coal Operation     Participate in and provide input to the Safety Management System, and			
	Consultation regarding possible changes in HSEC policies and procedures, and in other matters that may affect their safety at work			

#### 3.2. Environmental Training

Environmental training provides relevant knowledge and skills to manage environmental issues. Environmental training is provided to all SCSO personnel, contractors and visitors as outlined in Table 4. All staff and contractors are required to complete the site induction, including associated competency assessment, prior to undertaking any work on site.

**Table 4. Environmental Training** 

Training	Content Outline	Role Requiring	Frequency	Refresher
Employee induction	<ul> <li>Site induction</li> <li>General environmental awareness</li> <li>General emergency response</li> <li>Site specific environment and community issues</li> </ul>	New staff	On commencement of employment	Nil
Contractor induction	<ul> <li>Site induction</li> <li>General environmental awareness</li> <li>General emergency response</li> <li>Site specific environment and community issues</li> </ul>	New contractor	On first visit to site	Annual
Visitor induction	<ul><li>Basic site induction</li><li>General environmental awareness</li><li>General emergency response</li></ul>	Visitors	On each visit to site	NA
Environment and community awareness	<ul> <li>Centennial Environment &amp; Community Policy</li> <li>Purpose of EMS</li> <li>Relevant legislation</li> <li>Significant environment and community risks</li> <li>Community relations</li> </ul>	All staff	On commencement	Where material change to EMS OR as determined by ECC
Toolbox talks	<ul> <li>Environmental issues relevant to current work activities</li> <li>Findings from inspections/audits</li> <li>Updates to procedures/management plans</li> </ul>	All staff	As needs	NA

Training	Content Outline	Role Requiring	Frequency	Refresher
Incident response	<ul> <li>Pollution Incident Response         Management Plan</li> <li>Incident response procedures</li> </ul>	All staff	On commencement of employment	Following: - a change to response procedures - an event that triggers the PIRMP

#### 3.3. Reporting

SCSO communicates with a diverse range of people from a number of locations on environmental matters, from site personnel and contractors, to community members, to government agencies and departments. Environmental reports are prepared to meet a range of reporting requirements as detailed in Table 5.

**Table 5. Environmental Reporting** 

Report	Purpose	Frequency	Responsibility	Recipient
Environmental report	<ul> <li>To report to management on the status of environmental management at SCSO</li> <li>Reports on compliance, incidents, performance against KPIs, regulatory contact, risk management, status of environmental approvals, stakeholder consultation</li> </ul>	Weekly	Environment & Community Coordinator	SCSO Management
Internal incident report	<ul> <li>To document all environmental incidents, near misses and hazards at SCSO in the Environment and Community Database (ECD) in accordance with CIMOS – Internal Incident Reporting</li> <li>To identify and investigate significant environmental incidents</li> </ul>	Event based	All personnel	Supervisor
External incident report	To report material harm environmental incidents to regulators in accordance with the PIRMP and CIMOS – External Incident Reporting	Event based Verbal - Immediate Written - Within seven days of incident	Manager SCSO	Appropriate Regulatory Authorities as per PIRMP
	To report breaches or exceedances of limits or performance measures/criteria in SSD 5579 or PA 08_0223	Written Within seven days of the incident	Manager SCSO	DPIE and other Relevant Agencies
EPL Environmental Monitoring Report	To report to the EPA and public on results from environmental monitoring in accordance with site EPLs	Monthly	Environment & Community Coordinator	EPA Public via website

Report	Purpose	Frequency	Responsibility	Recipient
Annual Return	To review and report on environmental monitoring results and management in accordance with the site EPLs	Annual 60 days from anniversary date of EPL	Environment & Community Coordinator	EPA
Annual Review	<ul> <li>To review and report on environmental performance of the project in accordance with the relevant conditions in SSD 5579 and PA 08_0223</li> <li>Development (including any rehabilitation) during reporting period and proposed development during next reporting period</li> <li>Review of monitoring results and complaints against statutory requirements, previous results and predicted impacts</li> <li>Non-compliances and actions taken to ensure compliance</li> <li>Long-term trends in monitoring data</li> <li>Discrepancies between predicted and actual impacts of the project</li> <li>Measures to improve environmental performance</li> </ul>	Annual  WCS – end  March  LS – end  February	Environment & Community Coordinator	DPIE, RR, EPA, Lithgow City Council, Forestry NSW Public via website
Independent Environmental Audit Report	To review and report on performance of the operations against the project approval (refer to section 4.3)	Every three years	Auditor, approved by DPIE	ECC DPIE Public via website

#### 3.4. Communication

#### 3.4.1. External Communication

No person shall speak to the media on behalf of Centennial or SCSO except in accordance with the *Centennial Media Standard*.

#### 3.4.2. Stakeholder Engagement

SCSO maintain a register of all external stakeholders relevant to the site including community members, regulatory and government authorities, indigenous groups and interest groups.

Centennial maintain a corporate Stakeholder Engagement Plan that covers methods of engagement and desired outcomes of stakeholder interactions for all of its operations.

#### **Community Engagement**

SCSO is aware of its community obligations and the importance of open communication with the community.

A Western Region Community Consultation Committee (CCC) has been developed in accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (DPIE, 2019) to provide a forum for open discussion between Centennial Western Region personnel, community representatives, Lithgow City Council and other stakeholders.

The CCC meets twice a year to discuss current mining operations and environmental performance to keep the community involved in these matters. CCC meeting minutes are published to Centennials website.

SCSO will endeavour to keep the broader local community affected by its operation informed of its direction, plans and environmental performance through the following pathways:

- Community access to Monthly EPL Monitoring Reports, the Annual Review, Annual Environmental Management Report (AEMR) and additional information placed on Centennial's website. These reports document environmental performance at SCSO
- A 24 hour telephone complaints line
- Consultation for the preparation of environmental assessments and project modifications
- Centennial Stakeholder Newsletter (distributed biannually)
- Advertisements in Lithgow Mercury.

#### **Government and Other Agencies**

SCSO engages with various government and other agencies to report on its environmental performance. This is facilitated through a number of means including:

- Consultation for the preparation of environmental approvals and project modifications
- Consultation for the preparation of site environmental management plans
- Liaison with and reporting to EPA on any exceedance of EPL conditions
- Monthly EPL Monitoring Report placed on the Centennial website
- Provision of the Annual Returns to EPA
- Completion of the Annual Reviews and AEMRs in accordance with the site Development Consent, Project Approval or Mining Lease Conditions, and
- Completion of the National Pollution Inventory (NPI) reporting

#### 3.4.3. Complaints Handling and Dispute Resolution

A community information line is maintained for SCSO to receive calls from the local community. SCSOs community information line (02 6355 9500) operates 24 hours a day, 7 days a week. Centennial advertises the community information line in the local paper annually and on signage at key access points across the site.

Any complaints are logged on a complaints form (SCSO-F-0045) (Appendix 8), which forms part of the Incident Register that is maintained in accordance with the requirements of the Development Consent and Project Approval. The complaints form includes the following details:

- Date and time of the complaint
- The method by which the complaint was made
- Any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect
- The nature of the complaint

- Actions taken by the licensee in relation to the complaint, including any follow-up contact with the complainant, and
- If no action was taken by the licensee, the reasons why no action was taken

The record of a complaint will be kept for at least four years after the complaint was made and the record will be produced to any regulatory officer who asks to see it. Complaints registers for WCS and LS are provided on Centennial's website and are updated monthly with any complaints received in the month prior.

All complaints will be recorded in the Annual Review, AEMR and the EPL Annual Return.

Complaints will be responded in line with the community complaints response procedure as provided in Figure 3-2.

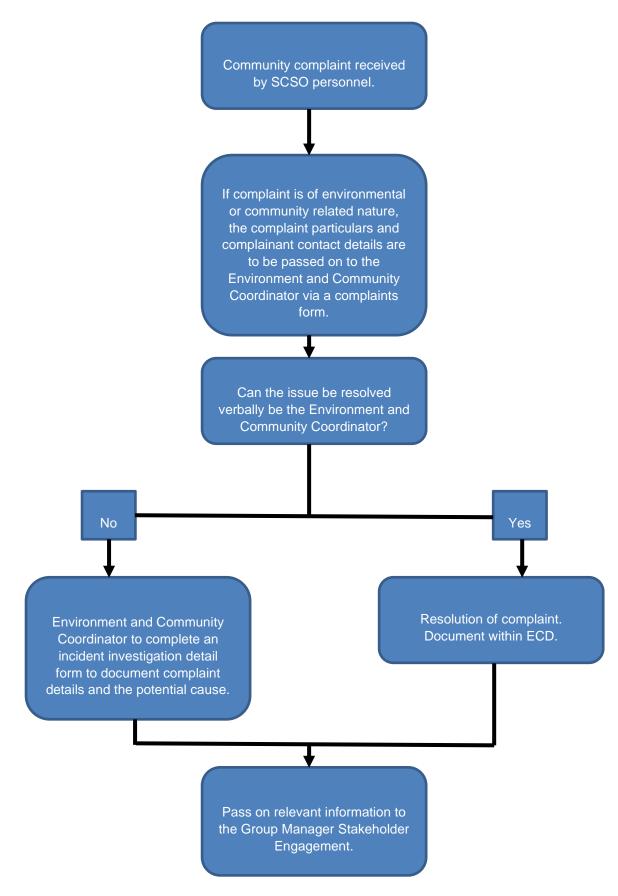


Figure 3-2. Complaints response procedure

If a complaint escalates into a dispute, associated issues will be handled by site management. If a dispute cannot be resolved through typical processes, an independent dispute resolution process will be initiated as per the process provided in the applicable approval condition of SSD-5579 Sch 4, Cond 4 or PA 08 0223 Sch 4, Cond 3. Figure 3-3 shows the dispute process procedure for SCSO.

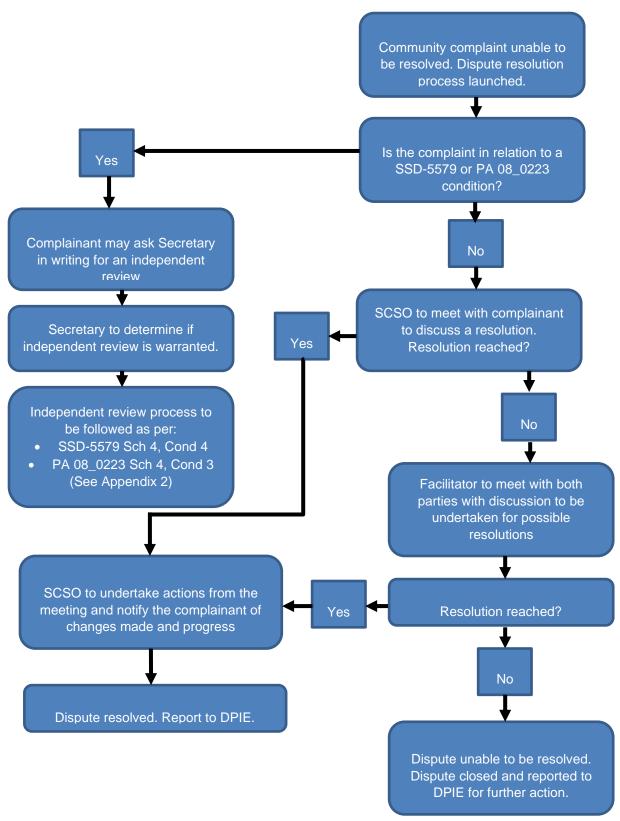


Figure 3-3. Dispute resolution procedure

#### 3.5. Emergency Preparedness and Response

Emergency and incident situations with the potential to have an impact on the environment are identified by SCSO when considering environmental aspects and are therefore subject to a risk analysis and determination of environmental significance and handled accordingly in the site's overall EMS.

The SCSO Emergency Plan (SCSO-MS-002) sets out how SCSO personnel including visitors and contractors will manage and respond to an emergency event. Where an emergency occurs at SCSO the two-way radio communication system will be used to initiate emergency response by calling 'EMERGENCY EMERGENCY'. All other radio communications will cease on hearing this call. The SCSO control room operator will record details of the emergency call on the Emergency Call Response sheet, assess the situation and engage emergency response/assistance as required. The SCSO control room operator will log the required information, initiate the appropriate response, notify the Manager SCSO, log all events relevant to the emergency and continue to control the emergency.

The SCSO PIRMP (SCSO-MS-010) has been prepared which covers operations associated with (EPL 21229 and EPL 5129). The PIRMP is activated and implemented on occurrence of a pollution incident at SCSO that has the potential to cause material harm to the environment or human health. The PIRMP includes the following:

- Identification of pollution incidents with the potential to cause material harm to the environment or human health
- Protocols for immediate incident notification
- Key actions to minimise occurrence of a pollution incident
- Procedures for managing a pollution incident if one occurs, and
- · Responsibilities for notifying neighbours and regulators of an incident

#### 3.6. Documentation and Document Control

All relevant site documentation will be retained in a controlled format at SCSO and managed, retained, revised and superseded as per Centennial standards.

#### 3.7. Records

Environmental records will be maintained for a minimum of four years, or as required by statutory requirements, including:

- · Environmental monitoring data
- Environmental incident reports and investigations
- Audit reports
- Complaints
- Compliance reviews, and
- Monthly reports

#### 3.8. Non-Compliance and Corrective and Preventative Action

Non-compliances are identified through environmental monitoring, inspections, audits and complaints. All non-compliances will be investigated in accordance with the SCSO Incident Investigation Management System. All incidents will be recorded in ECD and detail captured in the Incident Report and Detail Form (SCSO-F-008) which is included in Appendix 7.

Actions to eliminate the cause of the non-compliance and prevent its recurrence (corrective and preventive actions) are documented, monitored and reported through the following systems:

- ECD maintains records of actions arising from incident and complaint investigations
- PULSE assigns responsibilities for addressing these actions and monitors and reports on their status, and
- Compliance Database assigns responsibilities and monitors status of approval-related compliance items

Ongoing implementation of corrective and preventive actions and effectiveness of these controls is reviewed through periodic inspections and audits.

Environmental monitoring data for SCSO is collected and analysed by an external accredited laboratory. Monitoring results are sent to the ECC on at least a monthly basis, usually within two weeks of collection. Should the monitoring results detect an exceedance in the EPL criteria but there is no actual or potential material harm to the environment, then the EPA and/or DPIE as relevant will be informed in writing. Should there be actual or potential harm to the environment arising from an exceedance, the SCSO PIRMP will be activated.

Information to be provided to the EPA and DPIE in a written report will include analysis of the data, potential causes of the exceedance and additional controls to be implemented to prevent recurrence of the exceedance. Where the written report is in response to activation of the PIRMP, it will also include identification of all reasonable and feasible options for remediating any harm to the environment resulting from the exceedance. SCSO will implement remediation measures as directed by the EPA and/or DPIE, to their satisfaction.

As outlined in Section 3.3, SCSO will continue to publish EPL monitoring data in accordance with section 66(6) of the POEO Act.

#### 4. Measurement and Evaluation

The purpose of establishing and maintaining programs and procedures for periodic audits and inspections required by the EMS is to determine the level of:

- Compliance with environmental conditions of regulatory approvals including the EPL and development consent/project approval conditions, and
- On-site implementation and maintenance of the components of the EMS

#### 4.1. System Monitoring and Maintenance

The requirements of the EMS are met through SCSO managing the following:

- Tracking progress towards achieving objectives and targets
- Monitoring progress of environment and community programs
- Tracking the completion of inspections
- Tracking the completion of corrective actions
- Tracking response to incidents and community complaints, and
- Maintaining records of findings and schedules

#### 4.2. Environmental Monitoring

#### 4.2.1. Environmental Inspections and Impact Verification

A program of inspections is carried out at SCSO by both on-site personnel and external consultants. The purpose of these inspections is to verify that procedures listed in the environmental management plans are being successfully implemented to maintain compliance with approvals and licences, and to limit the impact of SCSO operations on the environment and the surrounding community.

Inspections include all key environmental aspects such water, dust and noise and include:

- Inspections of the coal handling areas, general housekeeping, water management (including licensed discharge points), dust management and noise management
- Following heavy rainfall events (>20mm in 24 hours), inspections are undertaken for all water management and sediment control structures, and
- Environmental inspections at LS and WCS are undertaken by SCSO personnel as required using the sheets as found in Appendix 6 and listed below:
  - LS Environmental Inspection Sheet (SCSO-AF-013), and
  - WCS Environmental Inspection Sheet (SCSO-AF-07)

Corrective and preventative actions identified through environmental inspections are managed as discussed in Section 3.8.

#### 4.2.2. Environmental Monitoring

#### SCSO is required to:

- Undertake environmental monitoring in accordance with the requirements of the Development Consent (SSD-5579), Project Approval (PA 08\_0223) and the EPLs 21229 (WCS) and 5129 (LS)
- Undertake environmental monitoring in accordance with applicable Australian Standards, and government and Centennial guidelines
- Ensure all environmental monitoring equipment is calibrated in accordance with a calibration schedule and standards
- Ensure environmental monitoring is undertaken by properly trained personnel
- Review, at least monthly, compliance with relevant environmental approval requirements
- Upload environmental monitoring data to the monitoring database
- Publish EPL monitoring data on the Centennial website. Data will be published in accordance with the EPA document, 'Requirements for Publishing Pollution Monitoring Data' (2013)
- Monitor the environmental performance status of SCSO
- Report monthly through the monitoring database the performance status of SCSO, and
- Develop and implement an audit and review schedule for SCSO

The specific environmental management plans for SCSO cover monitoring frequency and requirements in detail. These are listed in section 1.7.

Appendix 1 includes plans that outline the environmental monitoring locations at SCSO.

#### 4.2.3. Environmental Performance Indicators

Company environmental performance indicators are established during the Business Planning Process each year. SCSO have established site specific performance indicators and performance is assessed against all environmental performance indicators in monthly environmental reports. Key performance measures from the Development Consent, Project Approval and EPLs are recorded in the site environmental management plans. Centennial's ECD provides positive performance indicators with monthly and yearly targets.

#### 4.3. Audits

External audits for the implementation of and compliance with the EMS will be conducted in accordance with the SSD 5579 and PA 08\_0223 conditions set out in Table 6.

**Table 6. Approval Requirements for External Audits** 

Condition	Approval Requirements
Western Coal Services – Development Consent SSD-5579	

Condition	Approval Requirements
Schedule 5 Condition 9.	By the end of December 2015, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
	<ul> <li>a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;</li> <li>b) include consultation with the relevant agencies;</li> <li>c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent, and any other relevant approvals, relevant EPL/s and/or Mining Lease/s (including any assessment, plan or program required under these approvals);</li> <li>d) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals; and</li> <li>e) recommend measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals.</li> </ul>
	Note: This audit team must be led by a suitably qualified auditor, and include experts in field specified by the Secretary.
Schedule 5 Condition 10	Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.
Lidsdale Sid	ing Upgrade Project – Project Approval PA 08_0223
Schedule 5 Condition 9.	Within 12 months of completion of the upgrade to the coal loader, and every 3 years thereafter, unless the Planning Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:
	<ul> <li>a) be conducted by a suitably qualified, experienced and independent team of experts (including noise and air quality expert) whose appointment has been endorsed by the Planning Secretary;</li> <li>b) include consultation with the relevant agencies;</li> <li>c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval and any relevant EPL (including any assessment, plan or program required under these approvals);</li> <li>d) review the rail haulage and coal loading/unloading operations and determine whether all reasonable and feasible measures are being implemented to minimise the noise and dust impacts of the project; and</li> <li>e) recommend appropriate measures or actions to improve the environmental performance and rehabilitation of the project while on care and maintenance or following mine closure.</li> </ul>
	Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Planning Secretary.
Schedule 5 Condition 10	Within 6 weeks of the completion of this audit, or as otherwise agreed by the Planning Secretary, the Proponent must submit a copy of the audit report to the Planning Secretary, together with its response to any recommendations contained in the audit report.

Independent audits must be undertaken in accordance with the Department's Independent Audit document.

#### 4.4. Continual Improvement

Continual improvement of SCSO environmental performance shall be achieved through:

- Environmental monitoring and review of data
- Risk reviews
- Environmental inspections and compliance audits
- Internal and external communication with stakeholders
- Implementation of corrective and preventative actions, and
- Progress against objectives and targets and site environmental and community management commitments

#### 4.5. Management Review

Regular reviews of the EMS are conducted to ensure that it remains relevant to the objectives of the Centennial's Environment and Community Policy, and management frameworks. Reviews of the EMS and its associated management plans required under SSD 5579 and PA 08\_0223 will be undertaken within three months of:

- Incidents triggering the PIRMP or SSD 5579 / PA 08\_0223, Schedule 5 Condition 7
- Submission of independent environmental audit reports
- Submission of annual reviews, and
- Consent / approval modifications

The purpose of the management review will be to:

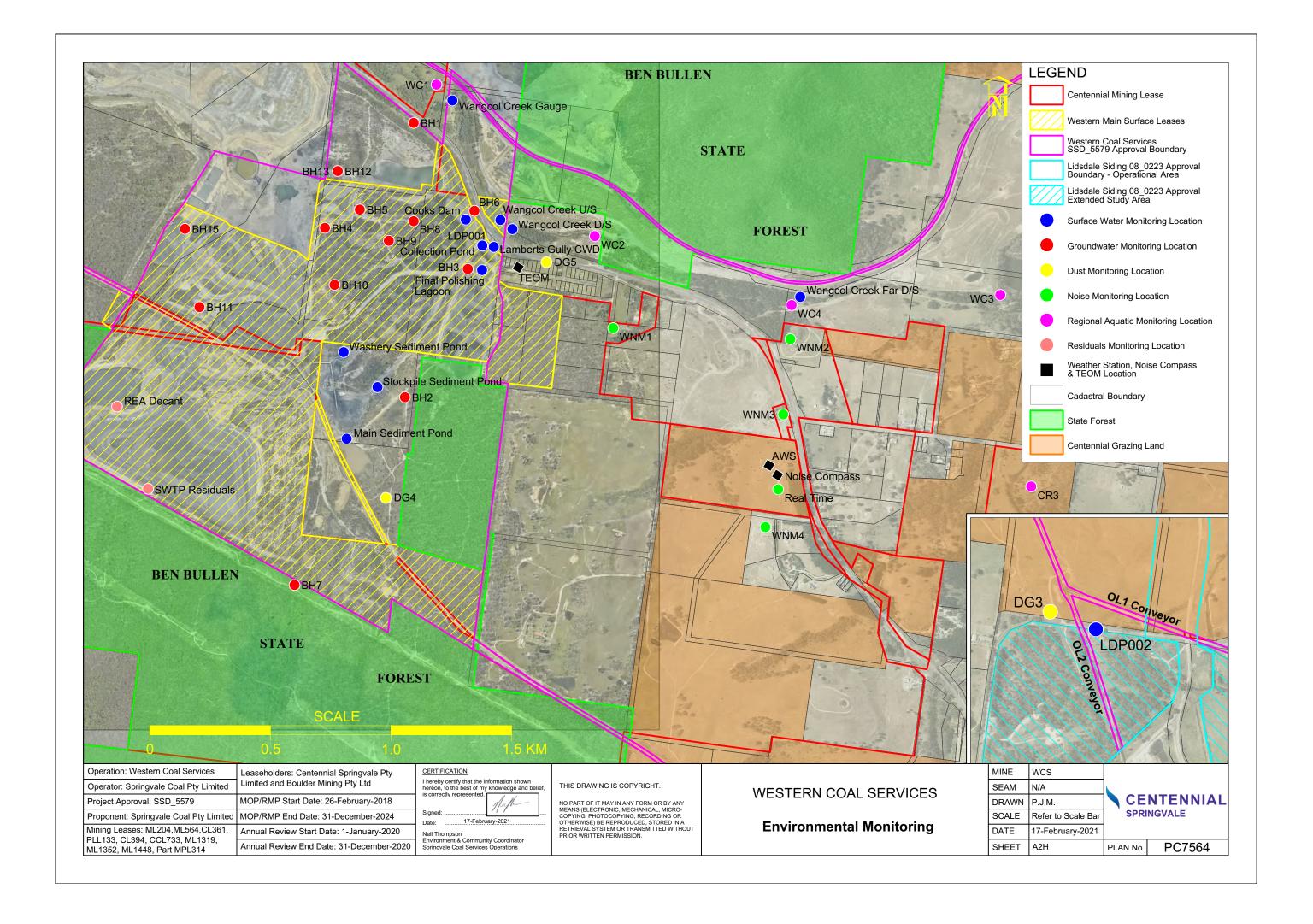
- Identify any weaknesses or out of date procedures or identified improvements
- Review legislative changes
- · Consider results of audits, and
- Review changes to significant environmental or business aspects

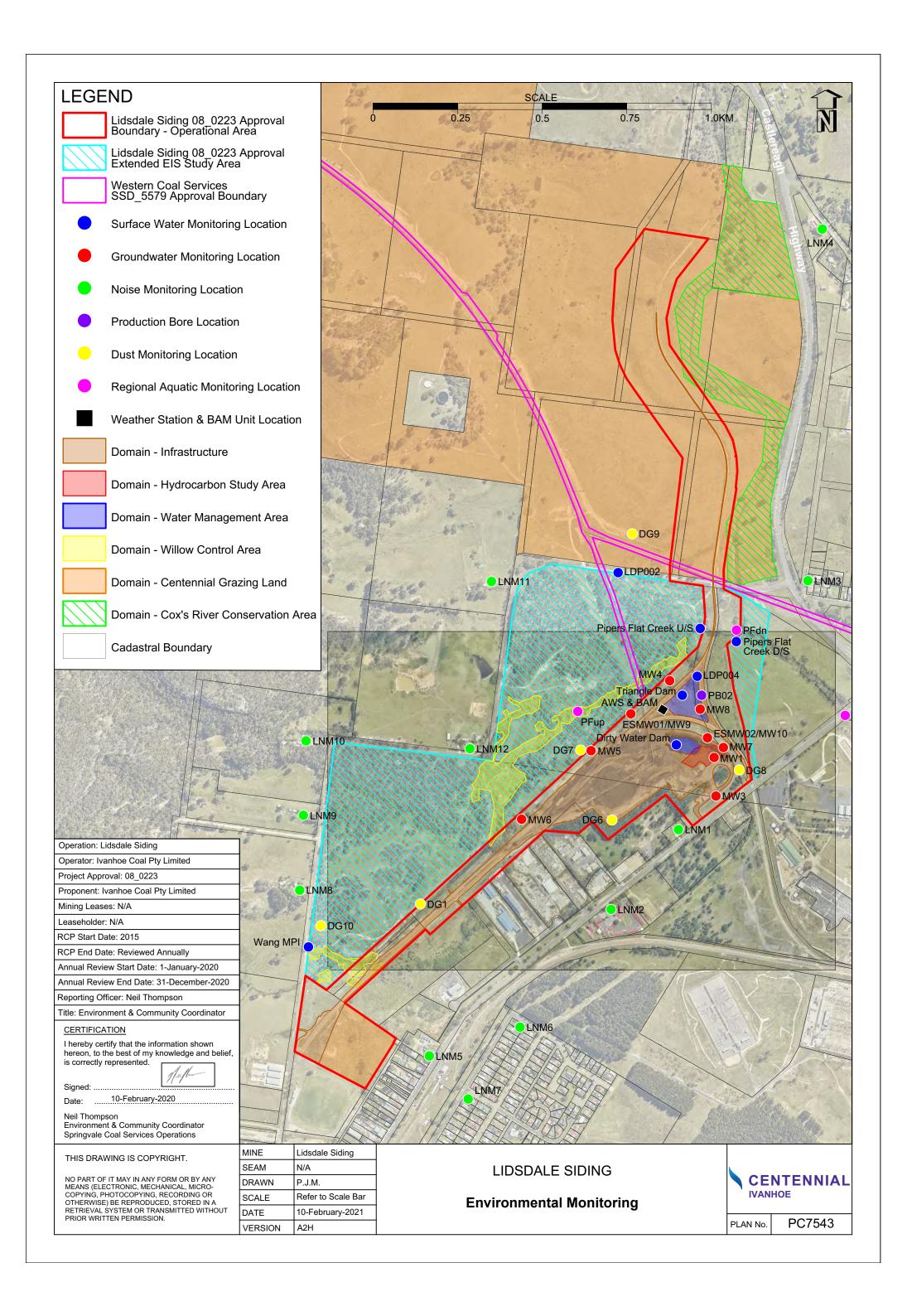
The outcomes of the review will be documented and incorporated into the EMS and management plans. The revision status is contained in the controlled document within Lotus Notes. Revised documents will be approved by the Manager SCSO before being submitted to DPIE for Secretary approval within four weeks of being updated. Approved documents are to be published on Centennial's website in accordance with SSD 5579 and PA 08 0223 Schedule 5 Condition 11.

### 5. Definitions

Community community	A complete to an est of supressing recentment displaceurs or griculance
Community complaint	A complaint is an act of expressing resentment, displeasure or grievance
	where the complainant believes they are directly affected by an activity.
	All complaints regarding an activity are investigated for compliance against a
	condition of consent, Environmental Protection Licence or other approval.
	A complaint is recorded if an issue is referred to the site by the NSW EPA,
	Council, or other Government Department.
Continual improvement	Process of enhancing the EMS to achieve improvements in overall
	environmental performance that are consistent with the Environment and
	Community Policy.
Environment	Surroundings in which Centennial operates, including air, water, noise, land,
	flora, fauna, natural resources, humans and their interaction.
Environmental	The outcome of environmental impacts, which may include (amongst other
consequences	things) loss of surface flows to the subsurface, loss of standing pools,
	adverse water quality impacts, cliff falls, rock falls, damage to Aboriginal
	heritage sites, loss of vegetation, noise emissions, poor air quality, visual
	nuisance, impacts on aquatic ecology, ponding.
Environmental hazard	Element of Centennial's activities, products or services that can interact with
(aspect)	the environment or community causing adverse impacts.
Environmental impact	Any change to the environment or community, whether adverse or beneficial,
	resulting from Centennial's activities, products or services.
Environmental incident	Where an activity, product or service of Centennial has caused or potentially
	caused an environmental consequence.
Non-compliance	A deficiency in characteristic, documentation or process implementation
	which renders the product of the activity unacceptable e.g. the breach of a
	license or condition.
Prevention of pollution	Use of process, practices, materials or products that avoid, reduce or control
	pollution, which may include recycling, treatment, process changes, control
	mechanisms, efficient use of resources and materials substitution.
i	L

# Appendix 1 Monitoring Locations





Environmental	110000000000	Ctuatami
Environmental	Management	SITATEON

# Appendix 2 Development Consents

# **Development Consent**

# Section 89E of the Environmental Planning & Assessment Act 1979

As delegate of the Minister for Planning and Infrastructure under delegation from the Minister dated 14 September 2011, the Planning Assessment Commission of NSW approves the project application referred to in Schedule 1, subject to the conditions in Schedules 2 to 5.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the development.

Gabrielle Kibble AO Alan Coutts

Member of the Commission Member of the Commission

Sydney 4 April 2014

**SCHEDULE 1** 

Application Number: SSD-5579

Applicant: Springvale Coal Pty Limited

Consent Authority: Minister for Planning and Infrastructure

Land: See Appendix 1

**Development:** Western Coal Services Project

19 June 2017 modification (MOD 1) in red type

15 December 2017 modification (MOD 2) in blue type

23 August 2019 modification (MOD 3) in green type

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#### **DEFINITIONS**

Annual review Applicant

BCA BCD CCC CHPP

Conditions of this consent

Consent CPI Day

EIS

Department Development DPIE – Water DRG

EPA Act EP&A Regulation

EPL Evening Feasible

Heritage Division Heritage item

**ICNG** 

Incident

Land

LCC

Material harm to the environment

Coal transportation and processing operations

Minister Minor Mitigation

Mount Piper haul road

The review required by condition 4 of Schedule 5

Springvale Coal Pty Limited, or any other person or persons who rely on this consent to carry out the development that is subject to this consent Building Code of Australia

Biodiversity and Conservation Division, within the Department

Community Consultative Committee Coal Handling and Preparation Plant

Conditions contained in Schedules 2 to 5 inclusive

This development consent

Australian Bureau of Statistics Consumer Price Index

The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays

Department of Planning, Industry and Environment

The development described in the EIS. Water Division, within the Department

Division of Resources and Geoscience, within the Department

- Environmental Impact Statement titled Western Coal Services Project Environmental Impact Statement, dated July 2013, and associated Response to Submissions, dated October 2013;
- Statement of Environmental Effects titled Western Coal Services
   Project State Significant Development 5579 Modification 1, dated
   November 2016 and associated Response to Submissions, dated
   February 2017;
- Statement of Environmental Effects titled Western Coal Services Project State Significant Development 5579 – Modification 2, dated August 2017 and associated Response to Submissions, dated October 2017; and
- MOD 3 Modification Report titled 'Statement of Environmental Effects: Western Coal Services Project, State Significant Development 5579 - Modification 3' dated 18 July 2019.

**Environment Protection Authority** 

Environmental Planning and Assessment Act 1979
Environmental Planning and Assessment Regulation 2000
Environment Protection Licence issued under the POEO Act

The period from 6pm to 10pm

Feasible relates to engineering considerations and what is practical to build or carry out

Heritage Division, within the Department of Premier and Cabinet

An item as defined under the *Heritage Act 1977* and/or an Aboriginal Object or Aboriginal Place as defined under the *National Parks and Wildlife Act 1974* 

The EPA's Interim Construction Noise Guideline (2010), or its latest version

A set of circumstances that:

causes or threatens to cause material harm to the environment; and/or breaches or exceeds the limits or performance measures/criteria in this consent

As defined in the EP&A Act, except for where the term is used in the noise and air quality conditions in Schedules 3 and 4 of this consent where it is defined to mean the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this consent

Lithgow City Council

Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial

Includes the following, where carried out on the site:

processing, handling and storage of coal;

transportation of coal by private haul road or conveyor; and

transportation and emplacement of coal rejects.

Minister for Planning and Public Spaces, or delegate

Not very large, important or serious

Activities associated with reducing the impacts of the development The haul road between the Angus Place Colliery pit top and the Mount Piper Power Station (shown as Existing Angus Place-Mt Piper Haul Road in Figure 1 of Appendix 2) Nealiaible

Niaht

Overland coal conveyor

POEO Act

Privately-owned land

Product coal

Public infrastructure

Reasonable

Rehabilitation

Remediation

**Residual Waste** 

Resources Regulator

**RMS** ROM coal

Secretary

Springvale Water Treatment Project

SCSS Site

Wallerawang haul road

Small and unimportant, such as to be not worth considering The period from 10pm to 7am on Monday to Saturday, and 10pm to

8am on Sundays and Public Holidays

The overland conveyor system extending from the Springvale Mine pit top to the Mount Piper Power Station via the SCSS, and from SCSS to

the Lidsdale Rail Siding (see Figure 1 of Appendix 2) Protection of the Environment Operations Act 1997

Land that is not owned by a public agency or a mining or power

generation company (or its subsidiary)

Saleable coal transported from the site, whether processed or

unprocessed.

Linear and related infrastructure and the like that provides services to

the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent

of potential improvements

The treatment or management of land disturbed by the development

for the purpose of establishing a safe, stable and non-polluting

environment

Activities associated with partially or fully repairing or rehabilitating the

impacts of the development or controlling the environmental

consequences of this impact

Suspended solids liquid waste stream generated from the Springvale

Water Treatment Project

Resources Regulator, within the Department

Roads and Maritime Services

Run of Mine coal

Secretary of the Department, or nominee

Springvale Water Treatment Project (SSD 7592)

Wallerawang Haul Road in Figure 1 of Appendix 2)

Springvale Coal Services Site

All land within the development area as listed in Appendix 1 and shown

in Appendix 2

The haul road between the Angus Place Colliery pit top and the

Wallerawang Power Station (shown as Existing Angus Place -

# SCHEDULE 2 ADMINISTRATIVE CONDITIONS

# **OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT**

1. In addition to meeting the specific performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the development.

# **TERMS OF CONSENT**

- 2. The Applicant must carry out the development:
  - (a) generally in accordance with the EIS and Statement of Commitments; and
  - (b) in accordance with the conditions of this consent.

#### Notes:

- The general layout of the development is shown in Appendix 3.
- The Applicant's statement of commitments is shown in Appendix 8.
- 3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.
- 4. The Applicant must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:
  - any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent; and
  - (b) the implementation of any actions or measures contained in these documents.

# **LIMITS ON CONSENT**

5. The Applicant may carry out coal transportation and processing operations on the site until 30 June 2039.

Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply in all other respects other than the right to conduct coal transportation and processing operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.

# **Coal Processing**

- A maximum of:
  - (a) 9.5 million tonnes of coal may be received at the SCSS in any calendar year, including a maximum of:
    - 5.5 million tonnes of ROM coal from Springvale Coal Mine;
    - 4.0 million tonnes of ROM coal from Angus Place Colliery;
    - 1.5 million tonnes of coal from sources other than Springvale Coal Mine or Angus Place Colliery, including a maximum of:
      - 1.5 million tonnes of coal from Lidsdale Siding Coal Loader; and
      - 1.0 million tonnes of ROM coal from other sources; and
  - (b) 7 million tonnes of ROM coal may be processed at the SCSS in any calendar year.

# **Coal Transport**

- 7. The Applicant must ensure that all product coal is transported from the SCSS by conveyor.
- 8. The Applicant must ensure that not more than 6.3 million tonnes of coal is transported between the SCSS and the Lidsdale Siding Coal Loader in any calendar year.

#### **Residual Waste**

8A. The Applicant must not receive or emplace more than 0.35 megalitres per day (annual average) or 0.43 megalitres per day (daily maximum) of residual waste from the Springvale Water Treatment Project.

# SURRENDER OF EXISTING DEVELOPMENT CONSENTS

 Prior to the end of December 2015, or as otherwise agreed by the Secretary, the Applicant must surrender all existing development consents or approvals that it holds for the site in accordance with section 104A of the EP&A Act. Note: This requirement does not extend to the surrender of construction and occupation certificates for existing and proposed building works under Part 4A of the EP&A Act. Surrender of a consent should not be understood as implying that works legally constructed under a valid consent can no longer be legally maintained or used.

10. Prior to the surrender of any existing development consent, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of that consent.

# STRUCTURAL ADEQUACY

11. The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

#### Notes:

- Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.

#### **DEMOLITION**

12. The Applicant must ensure that all demolition work is carried out in accordance with *Australian Standard AS* 2601-2001: The Demolition of Structures, or its latest version.

#### PROTECTION OF PUBLIC INFRASTRUCTURE

- 13. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:
  - repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and
  - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.

Note: This condition does not apply to damage to roads caused as a result of general road usage.

#### **OPERATION OF PLANT AND EQUIPMENT**

- 14. The Applicant must ensure that all plant and equipment used at the site is:
  - (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

# STAGED SUBMISSION OF STRATEGIES, PLANS OR PROGRAMS

15. With the approval of the Secretary, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis.

#### Notes:

- While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that
  the existing operations on site are covered by suitable strategies, plans or programs at all times.
- If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.
- 16. Until they are replaced by an equivalent strategy, plan or program approved under this consent, the Applicant must implement the existing strategies, plans or programs for the site that have been approved under existing development consents or approvals.

## OTHER DEVELOPMENTS ON THE SCSS

- 17. The Applicant must consult and engage with the proponents/applicants of other approved developments/projects on the SCSS, with the aim of maximising the outcomes of all developments/projects with respect to:
  - · operational efficiencies;
  - water, noise and air quality management;
  - · biodiversity conservation;
  - · rehabilitation; and
  - future land uses.

# SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

#### **ACQUISITION UPON REQUEST**

1. Upon receiving a written request for acquisition from an owner of the land listed in Table 1, the Applicant must acquire the land in accordance with the procedures in conditions 5-6 of Schedule 4.

Table 1: Land subject to acquisition upon request

Property ID		
B4 - Blackmans Flat	Mason (east) – Wolgan Road	

Note: To interpret the locations referred to in Table 1 see the applicable figure in Appendix 4.

#### ADDITIONAL MITIGATION UPON REQUEST

2. Upon receiving a written request from the owner of any residence on the land listed in Table 1, the Applicant must implement additional noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner. These measures must be reasonable and feasible and directed towards reducing the noise impacts of the development on the residence.

If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution.

#### **NOISE**

## **Construction Noise**

3. The Applicant must prepare and implement a Construction Noise Management Plan prepared in accordance with the EPA's *Interim Construction Noise Guideline 2009* (or any relevant updated version), to the satisfaction of the Secretary. This plan must be prepared in consultation with the EPA, and be approved by the Secretary prior to commencing construction.

# **Construction Hours**

4. The Applicant may only undertake construction activities between the hours of 7am to 6pm Monday to Friday, and 8am to 1pm Saturday, with no construction activities on Sundays or public holidays, unless otherwise agreed to by the Secretary in accordance with condition 5 of Schedule 3.

# **Out of Hours Construction Works**

5. If the Applicant proposes to undertake any construction works outside the hours specified in condition 4 of Schedule 3, then the Applicant must prepare and implement an Out of Hours Work Protocol for these works to the satisfaction of the Secretary. This protocol must be prepared in consultation with the EPA and the residents who would be affected by the noise generated by these works, and be consistent with the requirements of the ICNG. The Applicant must not carry out any out of hours construction works before this protocol has been approved by the Secretary.

# **Hours of Operation**

6. Except for the carrying out of construction, the Applicant must comply with the operating hours in Table 2.

Activity		Operating Hours
		Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery.
Coal transportation operations or Wallerawang haul road	n the	Maximum of 3 trucks operating during the evening period following the commencement of longwal extraction at Angus Place Colliery.
		No truck movements to occur in the night period.

Coal transportation operations on the Mount Piper haul road	Truck movements restricted to the day period only prior to longwall extraction at the Angus Place Colliery.  Maximum of 8 trucks operating during the evening period following the commencement of longwall extraction at Angus Place Colliery.  Maximum of 2 trucks operating during the night period.  No truck movements to occur in the night period during adverse meteorological conditions.
Kerosene Vale Coal Stockpile operations	During the day period only
All other operational activities	24 hours a day, 7 days per week

# **Noise Criteria**

Except for the carrying out of construction, and for the land in Table 1, the Applicant must ensure that the
noise generated by the development does not exceed the criteria in Table 3 at any residence on privatelyowned land.

Table 3: Noise criteria dB(A)

Land	Day L <sub>Aeq(15 min)</sub>	Evening L <sub>Aeq(15 min)</sub>	Night L <sub>Aeq(15 min)</sub>	Night La1 (1 min)
B12	40	35	35	47
B13	41	36	36	50
B14	41	35	35	55
B15	36	35	35	45
B16	35	35	36	45
B17	42	44	45	45
W1	37	37	41	45
W2	35	35	36	45
L1	42	35	35	45
L2	40	39	35	45
WR1	41	38	36	57
WR2	38	37	35	48
S3	36	36	39	45
All other privately- owned residences	35	35	35	45

Note: To interpret the locations referred to in Table 3 see the applicable figure in Appendix 4.

Noise generated by the development is to be measured in accordance with the relevant requirements of the *NSW Industrial Noise Policy*. Appendix 5 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

However, these criteria do not apply:

- to noise generated by the operation of the overland coal conveyor, Wallerawang haul road or Mount Piper haul road; or
- if the Applicant has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.

# **Operating Conditions**

- The Applicant must:
  - implement best management practice to minimise the construction, operational and road noise of the development;
  - (b) operate a comprehensive noise management system that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day-to-day planning of coal transport and processing operations, and the implementation of both proactive and reactive noise mitigation measures to ensure compliance with the relevant conditions of this consent;
  - (c) minimise the noise impacts of the development during meteorological conditions under which the noise limits in this consent do not apply (see Appendix 5);
  - (d) co-ordinate noise management on site with the noise management of other approved developments and/or projects on or in the vicinity of the site to minimise cumulative noise impacts; and
  - (e) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent,

to the satisfaction of the Secretary.

# **Noise Reduction Study**

- 8A. The Applicant must prepare and implement a noise reduction study for the overland coal conveyor and SCSS to the satisfaction of the Secretary. The study must:
  - (a) be prepared in consultation with the EPA, and be submitted to the Secretary for approval by the end of February 2018, unless otherwise agreed by the Secretary;
  - (b) identify sensitive receptors and existing noise levels in the vicinity of the overland coal conveyor and SCSS:
  - (c) investigate and propose reasonable and feasible measures to mitigate noise associated with the overland coal conveyor and SCSS, including but not necessarily limited to:
    - low noise idlers, barriers or other measures on sections of the conveyor system; and
    - cladding, attenuated plant or other measures at the CHPP;
  - (d) predict changes in noise levels in the vicinity of the overland coal conveyor and SCSS associated with the proposed noise mitigation measures; and
  - (e) provide a maintenance schedule for the overland coal conveyor to be implemented in the Noise Management Plan (see condition 9 below).

# **Noise Management Plan**

- 9. The Applicant must prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval within 4 months of the date of this consent, unless otherwise agreed by the Secretary;
  - describe the measures that would be implemented to ensure compliance with the noise criteria and operating conditions in this consent;
  - (c) describe the proposed noise management system in detail;
  - (d) include a monitoring program that:
    - · evaluates and reports on:
      - the effectiveness of the on-site noise management system;
      - compliance against the noise criteria in this consent; and
      - compliance with the noise operating conditions;
    - includes a program to calibrate and validate real-time noise monitoring results with attended
      monitoring results over time (so the real-time noise monitoring program can be used as a better
      indicator of compliance with the noise criteria and as a trigger for further attended monitoring);
      and
    - defines what constitutes a noise incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any noise incidents; and
  - (e) detail a maintenance schedule for the overland coal conveyor.

# **BLASTING**

# **Restriction on Blasting**

10. The Applicant must only carry out blasting on site to construct the Link Haul Road and only between 9 am and 5 pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Secretary.

# **Operating Conditions**

- 11. The Applicant must:
  - (a) implement best blasting management practice to:

- protect the safety of people in the surrounding area;
- protect public infrastructure and private property in the surrounding area from any damage; and
- · minimise the dust and fume emissions of any blasting;
- (b) minimise the frequency and duration of any required road closures:
- (c) consult with, and obtain the approval of, the RMS for any blasts within 500 metres of the Castlereagh Highway; and
- (d) operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site,

to the satisfaction of the Secretary.

# **AIR QUALITY**

#### Odour

12. The Applicant must ensure that no offensive odours, as defined under the POEO Act, are emitted by the development.

# **Air Quality Criteria**

13. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Tables 4, 5 and 6 at any residence on privately-owned land.

Table 4: Long-term criteria for particulate matter

Pollutant	Averaging Period	<sup>d</sup> Criterion
Total suspended particulate (TSP) matter	Annual	<sup>a</sup> 90 μg/m³
Particulate matter < 10 μm (PM <sub>10</sub> )	Annual	<sup>a</sup> 25 μg/m <sup>3</sup>

Table 5: Short-term criteria for particulate matter

Pollutant	Averaging Period	<sup>d</sup> Criterion
Particulate matter < 10 μm (PM <sub>10</sub> )	24 hour	<sup>a</sup> 50 μg/m <sup>3</sup>

Table 6: Long-term criteria for deposited dust

Pollutant	Averaging Period	Maximum increase in deposited dust level	Maximum total deposited dust level
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m <sup>2</sup> /month

Notes to Tables 4 - 6:

# Mine-owned Land

- 14. The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Tables 4, 5 and 6 at any occupied residence on mine-owned land unless:
  - (a) the tenant and landowner (if the residence is owned by another mining or power generation company) have been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent;
  - (b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice;

<sup>&</sup>lt;sup>a</sup> Total impact (ie incremental increase in concentrations due to the development plus background concentrations due to all other sources).

<sup>&</sup>lt;sup>b</sup> Incremental impact (ie incremental increase in concentrations due to the development on its own).

<sup>&</sup>lt;sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.

<sup>&</sup>lt;sup>d</sup> Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Secretary.

e "Reasonable and feasible avoidance measures" includes, but is not limited to, the operational requirements in condition 17 to develop and implement a real-time air quality management system that ensures operational responses to the risks of exceedance of the criteria.

- (c) air mitigation measures such as air filters, a first flush roof water drainage system and/or air conditioning) are installed at the residence, if requested by the tenant or landowner (if the residence is owned by another mining or power generation company);
- (d) air quality monitoring is regularly undertaken to inform the tenant or landowner (if the residence is owned by another mining or power generation company) of the actual particulate emissions at the residence; and
- (e) data from this monitoring is presented to the tenant or landowner in an appropriate format for a medical practitioner to assist the tenant and/or landowner (if the residence is owned by another mining or power generation company) in making informed decisions on health risks associated with occupying the property,

to the satisfaction of the Secretary.

# Air Quality Acquisition Criteria

15. If particulate matter emissions generated by the development exceed the criteria, or contribute to an exceedance of the relevant cumulative criteria, in Tables 7, 8 or 9, at any residence on privately-owned land, then upon receiving a written request for acquisition from the landowner the Applicant must acquire the land in accordance with the procedures in conditions 5-6 of Schedule 4.

Table 7: Long term land acquisition criteria for particulate matter

Pollutant	Averaging period	<sup>d</sup> Criterion
Total suspended particulate (TSP) matter	Annual	<sup>a</sup> 90 μg/m <sup>3</sup>
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	<sup>a</sup> 25 μg/m <sup>3</sup>

Table 8: Short term land acquisition criteria for particulate matter

Pollutant	Averaging period	<sup>d</sup> Criterion
Particulate matter < 10 μm (PM <sub>10</sub> )	24 hour	<sup>a</sup> 150 μg/m <sup>3</sup>
Particulate matter < 10 μm (PM <sub>10</sub> )	24 hour	<sup>b</sup> 50 μg/m <sup>3</sup>

Table 9: Long term land acquisition criteria for deposited dust

Pollutant	Averaging period	Maximum increase in deposited dust level	Maximum total deposited dust level
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m <sup>2</sup> /month

Notes to Tables 7-9:

# **Operating Conditions**

- 16. The Applicant must:
  - (a) implement best practice management to minimise the off-site odour, fume and dust emissions of the development;
  - (b) implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site;
  - (c) minimise the surface disturbance of the site;
  - (d) minimise any visible off-site air pollution generated by the development;
  - (e) operate a comprehensive air quality management system that uses a combination of predictive meteorological forecasting, predictive air dispersion modelling and air quality monitoring data to guide the day-to-day planning of coal transportation and processing operations and implementation of both proactive and reactive air quality mitigation measures to ensure compliance with the relevant conditions of this consent; and
  - (f) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d to Tables 7-9 above).

to the satisfaction of the Secretary.

a Total impact (ie incremental increase in concentrations due to the development plus background concentrations due to all other sources);

b Incremental impact (ie incremental increase in concentrations due to the development on its own);

c Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method;

d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, or any other activity agreed by the Secretary.

# Air Quality Management Plan

- 17. The Applicant must prepare and implement an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with the EPA, and submitted to the Secretary for approval within 4 months of the date of this consent, unless otherwise agreed by the Secretary;
  - describe the measures that would be implemented to ensure compliance with the relevant air quality criteria and operating conditions of this consent;
  - (c) describe the proposed air quality management system; and
  - (d) include an air quality monitoring program that:
    - uses a combination of at least one tapered element oscillating microbalance air quality monitor, sited in the vicinity of Blackmans Flat, and supplementary monitors to evaluate the performance of the development against the air quality criteria in this consent;
    - · adequately supports the proactive and reactive air quality management system;
    - evaluates and reports on:
      - the effectiveness of the air quality management system; and
      - compliance with the air quality operating conditions; and
    - defines what constitutes an air quality incident, and includes a protocol for identifying and notifying the Department and relevant stakeholders of any air quality incidents.

#### **METEOROLOGICAL MONITORING**

- 18. For the life of the development, the Applicant must ensure that there is a meteorological station in the vicinity of the site that:
  - (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and
  - (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Industrial Noise Policy, unless a suitable alternative is approved by the Secretary following consultation with the EPA.

#### **SOIL AND WATER**

# **Water Supply**

19. The Applicant must ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations on site to match its available water supply.

Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.

#### Water Pollution

20. Unless an EPL authorises otherwise, the Applicant must comply with Section 120 of the POEO Act.

# **Remediation of Soil Contamination**

- 21. Within 4 months of the date of this consent, unless otherwise agreed by the Secretary, the Applicant must commence a Phase 2 Contamination Assessment for the SCSS.
- 22. The Applicant must manage the remediation of the SCSS and the Kerosene Vale Coal Stockpile Area to the satisfaction of the EPA.
- 23. The Applicant must comply with the performance measures in Table 10 to the satisfaction of the Secretary.

Table 10: Water Management Performance Measures

Feature	Performance Measure
Potable Water	Minimise the use of potable water for purposes where non-potable water is acceptable
Construction and operation	<ul> <li>Design, install and maintain erosion and sediment controls generally in accordance with the series Managing Urban Stormwater: Soils and Construction including Volume 1, Volume 2A – Installation of Services and Volume 2C – Unsealed Roads, or its latest version</li> <li>Design, install and maintain all works within 40 m of</li> </ul>
	watercourses generally in accordance with the Guidelines for Controlled Activities on Waterfront Land (DPI 2012), or its latest version

	Design, installation and maintenance of creek crossings generally in accordance with the <i>Policy and Guidelines for</i> Fish Friendly Waterway Crossings (NSW Fisheries, 2003) and Why Do Fish Need To Cross The Road? Fish Passage Requirements for Waterway Crossings (NSW Fisheries 2003), or their latest versions
Sediment Dams	<ul> <li>Design, install and maintain dams generally in accordance with Managing Urban Stormwater: Soils and Construction         <ul> <li>Volume 1 and Volume 2E Mines and Quarries, or its latest version</li> </ul> </li> </ul>
Clean water diversions & storage infrastructure	<ul> <li>Design, install and maintain the clean water system to capture and convey the 100 year ARI flood, as far as is reasonable and feasible</li> <li>Maximise diversion of clean water around disturbed areas, as far as is reasonable and feasible</li> </ul>
Mine-water storages	<ul> <li>Design, install and maintain the mine-water storage infrastructure to store all runoff from a 95 percentile 5 day rain event</li> <li>Prevent seepage from the DML and Cooks Dams to the surface, as far as is reasonable and feasible</li> </ul>
Chemical and hydrocarbon storage	Chemical and hydrocarbon products to be stored in bunded areas in accordance with the relevant Australian Standards
Aquatic and riparian ecosystems, including affected sections of Wangcol and Lamberts Gully Creeks	<ul> <li>Maintain or improve baseline channel stability</li> <li>Develop site-specific in-stream water quality objectives in accordance with ANZECC 2000 and Using the ANZECC Guidelines and Water Quality Objectives in NSW procedures (DECC 2006), or its latest version</li> </ul>

# **Water Management Plan**

- 24. The Applicant must prepare and implement a Water Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with the EPA, WaterNSW, DPIE Water, LCC, Forestry Corporation of NSW and Energy Australia by suitably qualified and experienced person/s whose appointment has been approved by the Secretary;
  - (b) be submitted to the Secretary for approval within 4 months of the date of this consent, unless otherwise agreed by the Secretary; and
  - (c) include a:
    - (i) Site Water Balance, that:
      - includes details of:
        - sources and security of water supply, including contingency supply for future reporting periods;
      - water use and management on site;
      - o any off-site water discharges; and
        - o reporting procedures, including the preparation of a site water balance for each calendar year; and
      - investigates and implements all reasonable and feasible measures to minimise potable water use and to re-use and recycle water;
    - (ii) Surface Water Management Plan, that includes:
      - detailed baseline data on water flows and quality in the watercourses that could potentially be affected by the development;
      - a detailed description of the SCSS water management system, including the:
        - o clean water diversion systems;
        - o erosion and sediment controls; and
        - o mine-water management systems;
      - detailed plans, including design objectives and performance criteria for:
        - design and management for the emplacement of coal reject materials and potential acid-forming or sulphate-generating materials;
        - o management of sodic and dispersible soils:
        - o reinstatement of appropriate drainage lines on the rehabilitated areas of the site; and
        - o control of any potential water pollution from the rehabilitated areas of the site;
      - performance criteria for the following, including trigger levels for investigating any associated potentially adverse impacts:
        - SCSS water management system;
        - o downstream surface water quality; and

- o stream and riparian vegetation health for the Wangcol and Lamberts Gully Creeks;
- a program to monitor and report on:
  - o effectiveness of the SCSS water management system; and
  - o surface water flows and quality in the watercourses potentially affected by the development; and
- reporting procedures for the results of the monitoring program; and
- a plan to respond to any exceedences of the performance criteria, and mitigate and/or offset any adverse surface water impacts of the development;
- (iii) Groundwater Management Plan that includes:
  - detailed baseline data of groundwater levels, yield and quality on the SCSS and surrounds that could be affected by the development, including any licensed privately-owned groundwater bores;
  - groundwater impact assessment criteria including trigger levels for investigating any potentially adverse groundwater impacts;
  - a program to monitor and report on:
    - o groundwater inflows to former open cut pits;
    - the seepage/leachate from water storages, emplacements of power station ash and/or coal rejects, and former open cut voids:
    - background changes in groundwater yield/quality against changes induced by the development; and
    - o impacts of the development on:
      - regional and local (including alluvial) aquifers;
      - groundwater supply of any potentially affected private landowners; and
    - -any potentially affected groundwater dependent ecosystems and riparian vegetation;
  - a program to validate the groundwater model for the development, including an independent review of the model every 3 years, and comparison of monitoring results with modelled predictions; and
  - a plan to respond to any exceedences of the performance criteria: and
- (iv) protocol that has been prepared in consultation with the owners of nearby power generation or mining developments to:
  - minimise cumulative water quality impacts;
  - review opportunities for water sharing/water transfers between these developments;
  - co-ordinate water quality monitoring programs as far as practicable;
  - undertake joint investigations/studies in relation to complaints/exceedences of trigger levels where cumulative impacts are considered likely; and
  - co-ordinate modelling programs for validation, re-calibration and re-running of groundwater and surface water models.

Note: The protocol can be developed in stages and will need to be subject to ongoing review, dependent upon the determination of, and commencement of, other mining and/or power generation developments in the area.

# **BIODIVERSITY**

# **Biodiversity Offset Strategy**

- 25. By the end of December 2016, the Applicant must, to the satisfaction of the Secretary:
  - (a) provide an area that is suitable in its vegetation types and extent to satisfactorily offset the impacts of clearing 10.67 hectares of native vegetation (Coxs Permian Red Stringybark Brittle Gum Woodland); and
  - (b) make suitable arrangements to manage, protect and provide long-term security for this area, consistent with the relevant NSW Offsets policy.

## **Additional Rehabilitation Initiatives**

26. The Applicant must implement the Additional Rehabilitation Initiatives for the Lamberts Gully Creek catchment on the SCSS by the establishment and enhancement of locally endemic native vegetation species and improvement of fauna habitat values in the areas shown in Appendix 7, to the satisfaction of the Secretary.

## **Riparian Habitat and Catchment Improvement Plan**

- 27. The Applicant must prepare and implement a Riparian Habitat and Catchment Improvement Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with Local Land Services, BCD, EPA and WaterNSW, and be submitted to the Secretary for approval by the end of October 2017:

- (b) describe the measures that would be implemented to improve and maintain the riparian habitat of Wangcol Creek for at least 100 metres downstream of the proposed Link Haul Road bridge crossing of the creek;
- (c) detail additional compensatory water quality and catchment improvement measures to the value of at least \$250,000 which must be undertaken prior to the commissioning of the Springvale Water Treatment Project; and
- (d) make arrangements to manage, protect and provide for the long-term security for the measures proposed to respond to (b) and (c) above.

## **Habitat for Threatened Fauna Species**

- 28. The Applicant must ensure that the Biodiversity Offset Strategy and Additional Rehabilitation Initiatives areas, in combination, provide suitable habitat for threatened fauna species recorded on the SCSS, namely the:
  - Brown Treecreeper;
  - Gang-gang Cockatoo;
  - · Little Eagle;
  - · Scarlet Robin;
  - · Large-eared Pied Bat;
  - Eastern Falsistrelle;
  - · Eastern Bent Wing Bat; and
  - Yellow Bellied Sheathtail Bat.

#### **Biodiversity Management Plan**

- 29. The Applicant must prepare and implement a Biodiversity Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared in consultation with BCD and Forestry Corporation of NSW, and be submitted to the Secretary for approval by the end of December 2016:
  - (b) describe the short, medium, and long-term measures that would be implemented to:
    - manage remnant vegetation and habitat on the site; and
    - implement the Biodiversity Offset Strategy;
  - (c) include detailed performance and completion criteria for evaluating the performance of the Biodiversity Offset Strategy, and triggering any necessary remedial action;
  - (d) include a detailed description of the measures that would be implemented over the next 3 years (to be updated for each 3-year period following initial preparation of the plan) for:
    - enhancing the quality of existing vegetation and fauna habitat;
    - establishing native vegetation and fauna habitat in the Additional Rehabilitation Initiatives area through focusing on assisted natural regeneration, targeted vegetation establishment and the introduction of naturally scarce fauna habitat features (where necessary);
    - enhancing the landscaping of the site and along public roads to minimise visual and lighting impacts, particularly along the Castlereagh Highway;
    - protecting vegetation and soil outside the approved disturbance area;
    - maximising the salvage of resources within the approved disturbance area including tree
      hollows and vegetative and soil resources for beneficial reuse in the biodiversity offset strategy;
    - · collecting and propagating seed;
    - minimising the impacts to fauna on site, including undertaking pre-clearance surveys;
    - managing any potential conflicts between the proposed restoration works in the Additional Rehabilitation Initiatives area and any Aboriginal heritage values (both cultural and archaeological);
    - managing salinity;
    - controlling weeds and feral pests;
    - controlling erosion;
    - · controlling access; and
    - managing bushfire risk;
  - (e) include a program to monitor and report on the effectiveness of these measures, and progress against the detailed performance and completion criteria;
  - (f) identify the potential risks to the successful implementation of the Biodiversity Offset Strategy, and include a description of the contingency measures that would be implemented to mitigate against these risks; and
  - (g) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

Note: The Biodiversity Management Plan and Rehabilitation Management Plan require substantial integration to achieve biodiversity objectives for the undisturbed and rehabilitated areas of the SCSS.

#### **Conservation Bond**

30. Within 6 months of the approval of the Biodiversity Management Plan, unless the Secretary agrees otherwise, the Applicant must lodge a Conservation Bond with the Department to ensure that the Biodiversity Offset Strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan.

The sum of the bond must be determined by:

- (a) calculating the full cost of implementing the Biodiversity Offset Strategy (other than land acquisition costs); and
- (b) employing a suitably qualified quantity surveyor to verify the calculated costs.

If the offset strategy is completed generally in accordance with the completion criteria in the Biodiversity Management Plan to the satisfaction of the Secretary, the Secretary will release the bond.

If the offset strategy is not completed generally in accordance with the completion criteria in the Biodiversity Management Plan, the Secretary will call in all, or part of, the conservation bond, and arrange for the satisfactory completion of the relevant works.

#### Notes:

- Alternative funding arrangements for long-term management of the Biodiversity Offset Strategy, such as provision of
  capital and management funding as agreed by BCD as part of a Biobanking Agreement or transfer to the conservation
  reserve estate can be used to reduce the liability of the conservation bond.
- The sum of the bond may be reviewed in conjunction with any revision to the Biodiversity Management Plan.

#### **HERITAGE**

# **Protection of Aboriginal Sites**

31. The Applicant must ensure that the development does not cause any direct or indirect impact on identified Aboriginal sites located outside the approved disturbance area of the development on the site.

# Heritage Management Plan

- 32. The Applicant must prepare and implement a Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must:
  - (a) be prepared by suitably qualified and experienced person/s whose appointment has been endorsed by the Secretary;
  - (b) be prepared in consultation with the Heritage Division and local Aboriginal stakeholders (in relation to the management of Aboriginal heritage values);
  - be submitted to the Secretary for approval within 6 months of the date of this consent, unless the Secretary agrees otherwise;
  - (d) include a description of the measures that would be implemented for:
    - addressing relevant statutory requirements under the National Parks and Wildlife Act 1974;
    - protecting, monitoring and managing Aboriginal sites outside the approved disturbance area (including sites shown on the figure in Appendix 6, with particular attention to site 45-1-0218);
    - maintaining and managing reasonable access for Aboriginal stakeholders to cultural heritage items on site:
    - managing the discovery of any human remains or previously unidentified Aboriginal objects on site, including (in the case of human remains) stop work provisions and notification protocols;
    - ongoing consultation with local Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage both on-site and in the Biodiversity Offset Strategy area; and
    - ensuring any workers on site receive suitable heritage inductions prior to carrying out any activities which may disturb Aboriginal sites, and that suitable records are kept of these inductions.

#### **TRANSPORT**

## Intersection Upgrade

33. Within 6 months of the date of this consent, unless the Secretary agrees otherwise, the Applicant must repaint line markings at the intersection of the Castlereagh Highway and the SCSS Access Road to the satisfaction of RMS.

# Castlereagh Highway Overbridge

34. The Applicant must design, construct and operate the Link Haul Road overbridge of the Castlereagh Highway at no cost to, and to the satisfaction of, RMS.

# **Construction Traffic Management Plan**

- 35. The Applicant must prepare and implement a Construction Traffic Management Plan for the development, to the satisfaction of the Secretary. This plan must be prepared in consultation with LCC and RMS, and must be submitted to the Secretary for approval prior to the commencement of construction activities on the site. This plan must address:
  - (a) management of wide loads;
  - (b) minimising inconvenience to the public, particularly during the construction of the Link Haul Road overbridge of the Castlereagh Highway; and
  - (c) maintaining public safety.

#### Road Maintenance - Private Haul Roads

- 36. Within 3 months of the date of consent, until coal transportation ceases on each respective haul road, unless otherwise agreed by the Secretary, the Applicant must maintain the surface of the haul roads from Angus Place to Mount Piper and Wallerawang power stations with a smooth sealed surface, effectively free of potholes, indentations or other unevenness of the surface that would cause noise levels from traffic travelling on the road to exceed the sleep disturbance criteria in Table 3, to the satisfaction of the Secretary.
- 37. Within 3 months of the date of consent, and every 6 months thereafter until coal transportation ceases on each respective haul road, unless otherwise agreed by the Secretary, the Applicant must arrange and pay the cost of independent inspections and condition reports of the surface of the haul roads from Angus Place to Mount Piper and Wallerawang power stations by an independent road maintenance expert, approved by the Secretary. Copies of the inspection and condition reports must be forwarded to the Secretary at the same time as they are provided to the Applicant.
- 38. If any haul road condition report, referred to in condition 37, recommends repair or remedial works in order to prevent exceedances of the sleep disturbance criteria in Table 3, then the Applicant must not undertake trucking operations on the affected haul road at Night until the recommended repair and/or remedial works are undertaken to the satisfaction of the independent road maintenance expert.

# **Transport Monitoring**

- 39. The Applicant must monitor and report on:
  - (a) the amount of coal transported to and from the site; and
  - (b) the date and time of each truck movement of coal or coal rejects to and from the site; to the satisfaction of the Secretary.

## VISUAL

# **Operating Conditions**

- 40. The Applicant must:
  - implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development;
  - (b) ensure no fixed outdoor lights or mobile lighting rigs shine above the horizontal:
  - (c) ensure that all external lighting associated with the development complies with Australian Standard AS4282 (INT) 1997 Control of Obtrusive Effects of Outdoor Lighting or its latest version;
  - ensure revegetation works associated with the batters of the Link Haul Road overbridge of the Castlereagh Highway are undertaken as soon as practicable and maintained to reduce visual impacts;
  - (e) employ reasonable and feasible landscaping measures to minimise visual impacts of all private haul roads forming part of the development; and

(f) ensure that the visual appearance of all buildings, structures, facilities or works (including paint colours and specifications) is aimed at blending as far as possible with the surrounding landscape, to the satisfaction of the Secretary.

# **BUSHFIRE MANAGEMENT**

- 41. The Applicant must:
  - (a) ensure that the development is suitably equipped to respond to any fires on site; and
  - (b) assist the Rural Fire Service, emergency services and Forestry Corporation of NSW as much as possible if there is a fire in the surrounding area.

#### **WASTE**

- 42. The Applicant must:
  - (a) implement all reasonable and feasible measures to minimise the waste (including coal reject) generated by the development;
  - (b) ensure that the waste generated by the development is appropriately stored, handled and disposed of and
  - (c) monitor and report on the effectiveness of waste minimisation and management measures in the Annual Review.

#### REHABILITATION

# **Rehabilitation Objectives**

43. The Applicant must rehabilitate the site to the satisfaction of the Resources Regulator. This rehabilitation must be generally consistent with the proposed Rehabilitation Strategy described in the EIS (and shown conceptually in Appendix 7) and comply with the objectives in Table 11.

Table 11: Rehabilitation objectives

Feature	Objective
Site (as a whole)	Safe, stable and non-polluting
	Constructed landforms drain to the natural environment
	Minimise visual impact of final landforms as far as is reasonable and feasible
Lands on which other approved developments exist or are proposed, such as Energy Australia's ash	Final land use to be determined in consultation with, and the agreement of the landowner
emplacement or LCC's waste management facility	The default objective for all land where a final land use is not otherwise agreed is to rehabilitate to the standards required for "Remainder of the SCSS" in this table
Surface infrastructure	To be decommissioned and removed, unless the Resources Regulator agrees otherwise
Castlereagh Highway overbridge	To be decommissioned and removed, unless the Resources Regulator and RMS agrees otherwise
Portion of Ben Bullen State Forest within the SCSS	To be managed to the satisfaction of the Forestry Corporation of NSW with the implementation of biodiversity enhancement measures, including weed and feral animal control
Remainder of the SCSS	Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems comprising:  • a wildlife corridor (shown as Additional Rehabilitation Initiatives in the figure in Appendix 7);  • local native plant species; and  • a landform consistent with the surrounding environment
Community	Ensure public safety
	Minimise the adverse socio-economic effects associated with closure of the development

# **Progressive Rehabilitation**

44. The Applicant must progressively rehabilitate the site, including the Kerosene Vale Stockpile Area, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to

minimise the total area exposed for dust generation at any time. Interim rehabilitation strategies must be employed where areas prone to dust generation are not subject to active operations but cannot yet be permanently rehabilitated.

Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to further disturbance in future.

# **Rehabilitation Management Plan**

- 45. The Applicant must prepare and implement a Rehabilitation Management Plan to the satisfaction of the Resources Regulator. This plan must:
  - (a) be prepared in consultation with the Department, EPA, DPIE Water, DRG, BCD, WaterNSW, Forestry Corporation of NSW, CCC and LCC;
  - (b) be submitted to the Resources Regulator for approval within 4 months of the date of this consent; unless the Resources Regulator agrees otherwise;
  - (c) be prepared in accordance with any relevant NSW Government guideline;
  - (d) describe how the rehabilitation of the site would be integrated with the implementation of the Biodiversity Management Plan;
  - (e) include detailed performance and completion criteria for evaluating the performance of the rehabilitation of the site, and triggering remedial action (if necessary);
  - (f) describe the measures that would be implemented to ensure compliance with the relevant conditions of this consent, and address all aspects of rehabilitation including facility closure, final landform and final land use:
  - (g) include interim rehabilitation where necessary to minimise the area exposed for dust generation;
  - (h) include a program to monitor, independently audit and report on the effectiveness of the rehabilitation measures and progress against the detailed performance and completion criteria; and
  - (i) build to the maximum extent practicable on the other management plans required under this consent.

Note: The Biodiversity Management Plan and Rehabilitation Management Plan require substantial integration to achieve biodiversity objectives for the undisturbed and rehabilitated areas of the SCSS.

#### **Pollution Reduction Works**

- 46. Prior to receiving any residual waste from the operation of the Springvale Water Treatment Project, the Applicant must complete the following pollution reduction works to the satisfaction of the EPA:
  - (a) Establish a groundwater monitoring network across the Springvale Coal Services site that comprises an adequate number of bores that are located, established and operated in such a manner that will provide an understanding of surface water and groundwater interactions across the site:
  - (b) Design and install run-off diversion works to divert all clean water run-off generated from catchment areas up-gradient of the Springvale Coal Services Site; and
  - (c) Investigate options for long term management and discharge and/or beneficial reuse, of groundwater presently discharging from the site through LDP 001.

# SCHEDULE 4 ADDITIONAL PROCEDURES

## **NOTIFICATION OF LANDOWNERS/TENANTS**

- 1. Within 1 month of the date of this consent, unless the Secretary agrees otherwise, the Applicant must:
  - (a) notify in writing the owners of:
    - the land listed in Table 1 of Schedule 3 that they have the right to require the Applicant to acquire their land at any stage during the development; and
    - any residence listed in condition 2 of Schedule 3, that they have the right to request the Applicant for additional noise mitigation measures to be installed at their residence at any stage during the development;
  - (b) notify the tenants of any mine-owned land of their rights under this consent; and
  - (c) send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the owners and/or existing tenants of any land (including mine-owned land) where the predictions in the EIS identify that dust emissions generated by the development are likely to be greater than the relevant air quality criteria in Schedule 3 at any time during the life of the development.
- 2. Prior to entering into any tenancy agreement for any land owned by the Applicant that is predicted to experience exceedances of the recommended dust and/or noise criteria, or for any of the land listed in Table 1 that is subsequently purchased by the Applicant, the Applicant must:
  - (a) advise the prospective tenants of the potential health and amenity impacts associated with living on the land, and give them a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time); and
  - (b) advise the prospective tenants of the rights they would have under this consent, to the satisfaction of the Secretary.
- 3. As soon as practicable after obtaining monitoring results showing:
  - (a) an exceedance of any relevant criteria in Schedule 3, the Applicant must notify affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and
  - (b) an exceedance of the relevant air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land (including the tenants of any mine-owned land).

# INDEPENDENT REVIEW

4. If an owner of privately-owned land considers the development to be exceeding the criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.

If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision, the Applicant must:

- (a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to:
  - consult with the landowner to determine his/her concerns;
  - conduct monitoring to determine whether the development is complying with the relevant impact assessment criteria in Schedule 3; and
  - if the development is not complying with these criteria then:
    - determine if more than one mine or development is responsible for the exceedance, and if so the relative share of each mine or development regarding the impact on the land; and
    - identify the measures that could be implemented to ensure compliance with the relevant criteria; and
- (b) give the Secretary and landowner a copy of the independent review.

## LAND ACQUISITION

- 5. Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant must make a binding written offer to the landowner based on:
  - (a) the current market value of the landowner's interest in the land at the date of this written request, as if the land was unaffected by the development, having regard to the:
    - existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and

- presence of improvements on the land and/or any approved building or structure which has been physically commenced at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of the additional noise mitigation measures in condition 2 of Schedule 3;
- (b) the reasonable costs associated with:
  - relocating within the Lithgow local government area, or to any other local government area determined by the Secretary; and
  - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and
- (c) reasonable compensation for any disturbance caused by the land acquisition process.

However, if at the end of this period, the Applicant and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Secretary for resolution.

Upon receiving such a request, the Secretary will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:

- consider submissions from both parties:
- determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;
- prepare a detailed report setting out the reasons for any determination; and
- provide a copy of the report to both parties.

Within 14 days of receiving the independent valuer's report, the Applicant must make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.

However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the Secretary for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the Secretary will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report of the party that disputes the independent valuer's determination and any other relevant submissions.

Within 14 days of this determination, the Applicant must make a binding written offer to the landowner to purchase the land at a price not less than the Secretary's determination.

If the landowner refuses to accept the Applicant's binding written offer under this condition within 6 months of the offer being made, then the Applicant's obligations to acquire the land shall cease, unless the Secretary determines otherwise.

6. The Applicant must pay all reasonable costs associated with the land acquisition process described in condition 5 above, including the costs associated with obtaining LCC approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.

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# SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

#### **ENVIRONMENTAL MANAGEMENT**

# **Environmental Management Strategy**

- 1. The Applicant must prepare and implement an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:
  - (a) be submitted to the Secretary for approval within 6 months of the date of this approval, unless the Secretary agrees otherwise;
  - (b) provide the strategic framework for environmental management of the development;
  - (c) identify the statutory approvals that apply to the development;
  - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
  - (e) describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the mining complex;
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise;
    - · respond to any non-compliance;
    - respond to emergencies; and
  - (f) include:
    - copies of any strategies, plans and programs approved under the conditions of this consent; and
    - a clear plan depicting all the monitoring to be carried out in relation to the development.

# **Adaptive Management**

2. The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:

- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (c) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.

## **Management Plan Requirements**

- 3. The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:
  - (a) detailed baseline data;
  - (b) a description of:
    - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - any relevant limits or performance measures/criteria;
    - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
  - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
  - (d) a program to monitor and report on the:
    - impacts and environmental performance of the development;
    - effectiveness of any management measures (see c above);
  - (e) a contingency plan to manage any unpredicted impacts and their consequences;
  - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
  - (g) a protocol for managing and reporting any:
    - incidents;
    - · complaints;
    - non-compliances with statutory requirements; and
    - exceedances of the impact assessment criteria and/or performance criteria; and
  - (h) a protocol for periodic review of the plan.

#### **Annual Review**

- 4. By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant must review the environmental performance of the development to the satisfaction of the Secretary. This review must:
  - (a) describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
  - (b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the:
    - the relevant statutory requirements, limits or performance measures/criteria;
    - · the monitoring results of previous years; and
    - the relevant predictions in the EIS;
  - (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
  - (d) identify any trends in the monitoring data over the life of the development;
  - (e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
  - (f) describe what measures will be implemented over the next year to improve the environmental performance of the development.

# Revision of Strategies, Plans and Programs

- 5. Within 3 months of:
  - (a) the submission of an annual review under Condition 4 above;
  - (b) the submission of an incident report under Condition 7 below:
  - (c) the submission of an audit report under Condition 9 below; or
  - (d) any modification to the conditions of this consent, (unless the conditions require otherwise),

the Applicant must review the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.

Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the development.

# **Community Consultative Committee**

6. Within 3 months of the date of this consent, the Applicant must establish and operate a regional Community Consultative Committee (CCC) for the development in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007, or its latest version), and to the satisfaction of the Secretary. This CCC is to service this development and any other approved project and/or development operated by the company in the Wallerawang district.

#### Notes

- The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the
  Applicant complies with this consent; and
- The CCC should be comprised of an independent chair and appropriate representation from the Applicant, LCC, recognised environmental groups and the local community to the satisfaction of the Secretary.

## REPORTING

# **Incident Reporting**

7. The Applicant must immediately notify the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant must notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

# **Regular Reporting**

8. The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

#### INDEPENDENT ENVIRONMENTAL AUDIT

# **Independent Environmental Audit**

- 9. By the end of December 2015, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
  - (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
  - (b) include consultation with the relevant agencies;
  - (c) assess the environmental performance of the development and assess whether it is complying with the requirements in this consent, and any other relevant approvals, relevant EPL/s and/or Mining Lease/s (including any assessment, plan or program required under these approvals);
  - (d) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals; and
  - (e) recommend measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under these approvals.

Note: This audit team must be led by a suitably qualified auditor, and include experts in field specified by the Secretary.

10. Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

## **ACCESS TO INFORMATION**

- 11. The Applicant must:
  - (a) make the following information publicly available on its website:
    - the EIS:
    - all current statutory approvals for the development;
    - approved strategies, plans or programs required under the conditions of this consent;
    - a comprehensive summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent:
    - a complaints register, which is to be updated on a monthly basis;
    - minutes of CCC meetings:
    - the last five annual reviews;
    - any independent environmental audit, and the Applicant's response to the recommendations in any audit;
    - any other matter required by the Secretary; and
  - (b) keep this information up to date, to the satisfaction of the Secretary.

# APPENDIX 1 SCHEDULE OF LAND

Land within area subject of the EIS	Centennial Fassifern Pty Ltd
	Lots 2 and 4 DP 260621
	Lot 1 DP 386554
	Lot 3 DP 542432
	Lots 32, 41, 57 and 351 DP 751636
	Lots 43, 51 and 406 DP 751651
	Lots 120, 121 and 124 DP 1188105
	Lots 138, 139, 140, 141, 142, 143, 144 and 145 DP 1185660
	Lots 1, 3 and 4 DP 1139982
	Lot 1 DP 400022
	Lot 1 DP 920999
	Lots 2 and 3 DP 1151441
	Centennial Springvale Pty Ltd and Springvale Kores Pty Ltd
	Lot 1 DP 88503
	Lots 1 and 2 DP 126483
	Lot 13 and 357 DP 751651
	Lot 501 DP 825541
	Lot 2 DP 835651
	Coal Link>Pty Ltd
	Lot 1 DP 825887
	Council of the City of Lithgow
	Lot 42 DP 751636
	Lot 1 DP 1049889
	Lot 1 DP 1127043
	Lot 4 DP 1151441
	Delta Electricity
	Lot 191 DP 629212
	Lots 1 and 2 DP 702619
	Lot 67 DP 751636
	Lot 1 DP 803655
	Lots 9 and 15 DP 804929
	Lot 1 DP 825124
	Lots 140, 146, 147, 148, 149, 151 and 152 DP 1185660
	Lots 3 and 5 DP 829137
	Lot 101 DP 829410

	Lot 16 DP 855844
	Lot 2 DP 1018958
	Lots 1 and 5 DP 1087684
	Lot 228 DP 1131953
	Lots 10 and 11 DP 1139978
	Lots 2 and 3 DP 1139982
	Lot 103 DP 1164619
	Enhance Place Pty Ltd
	Lots 132, 135, 136, 137 138, 139, 140 and 141 DP 1188105
	Lot 10 DP 877753
	Lot 29 DP 1096381
	State of NSW / Ben Bullen State Forest
	Lot 70 DP 751636
	Lot 502 DP 825541
	Lot 7005 DP 1026541
	Lots 290 and 291 DP 751636
	Ivanhoe Coal Pty Ltd
	Lot 2 DP 567915
	Lots 16, 174, 375 and 385 DP 751651
	Lot 101 DP 1137972
	Private Owner (Janette Winifred Hunt)
	Lot 371 DP 751651
	Lidsdale Holdings Pty Ltd
	Lot 128 DP 1188105
	State Rail Authority
	Lots 1 and 8 DP 252472
	Crown Roads
	Lots 4, 5, 9 and 10 DP 1187371
	Lot 70 DP 751636
	Lot 7005 DP 1026541

# APPENDIX 2 DEVELOPMENT AREA

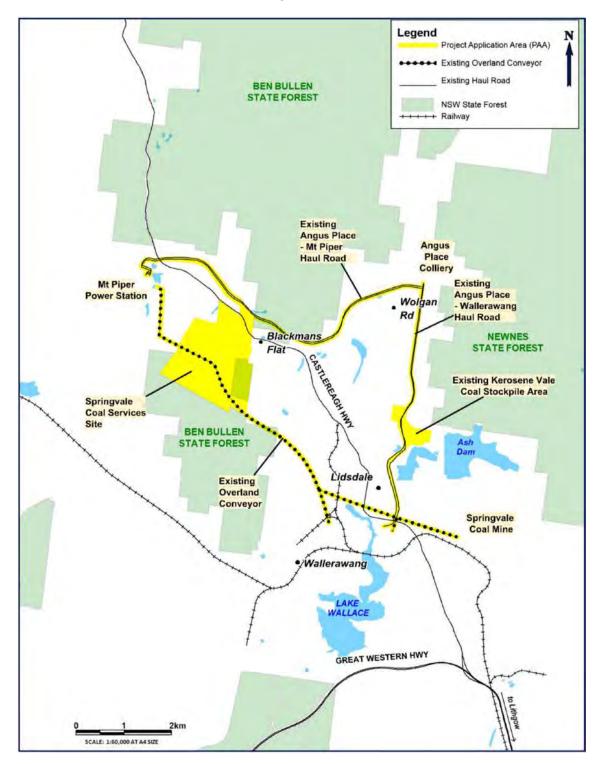


Figure 1: Western Coal Services Project - Development Area

# APPENDIX 3 DEVELOPMENT LAYOUT

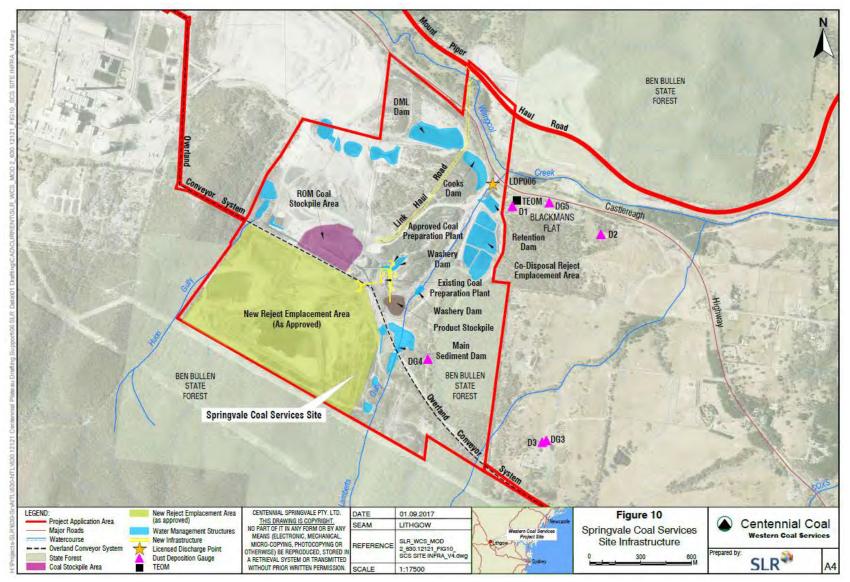


Figure 1: General layout of proposed infrastructure on the SCSS

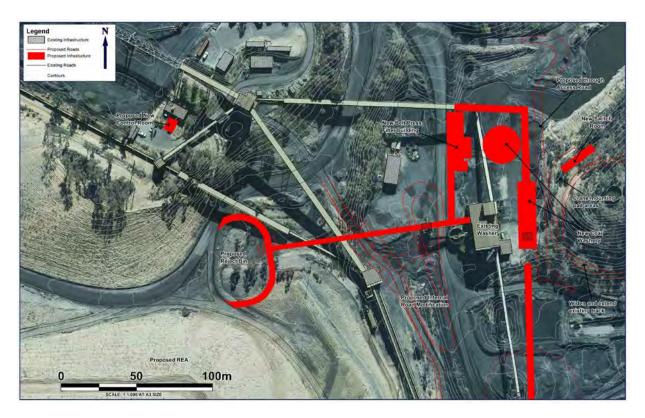


Figure 2: General layout of proposed upgrade to the CHPP on the SCSS

# APPENDIX 4 RECEIVER LOCATIONS

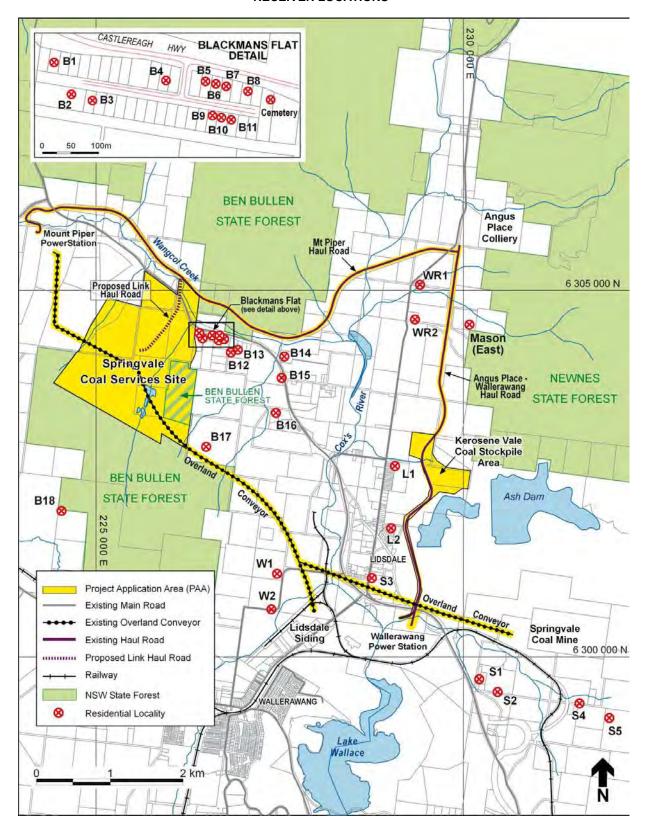


Figure 1: Residential locations used for noise and air quality predictions

# APPENDIX 5 NOISE COMPLIANCE ASSESSMENT

# **Applicable Meteorological Conditions**

- The noise criteria in Table 3 in Schedule 3 are to apply under all meteorological conditions except the following:
  - (a) average wind speed at microphone height exceeds 5 m/s;
  - (b) wind speeds greater than 3 m/s measured at 10 m above ground level; or
  - (c) temperature inversion conditions greater than 3°C/100 m.

# **Determination of Meteorological Conditions**

2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under condition 18 of Schedule 3.

# **Compliance Monitoring**

- 3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.
- 4. This monitoring must be carried out at least 12 times in each calendar year (ie at least once in every calendar month), unless the Secretary directs otherwise.
- 5. Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Industrial Noise Policy* (as amended from time to time), in particular the requirements relating to:
  - (a) monitoring locations for the collection of representative noise data;
  - (b) meteorological conditions during which collection of noise data is not appropriate;
  - (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
  - (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.

# APPENDIX 6 ABORIGINAL CULTURAL HERITAGE SITES

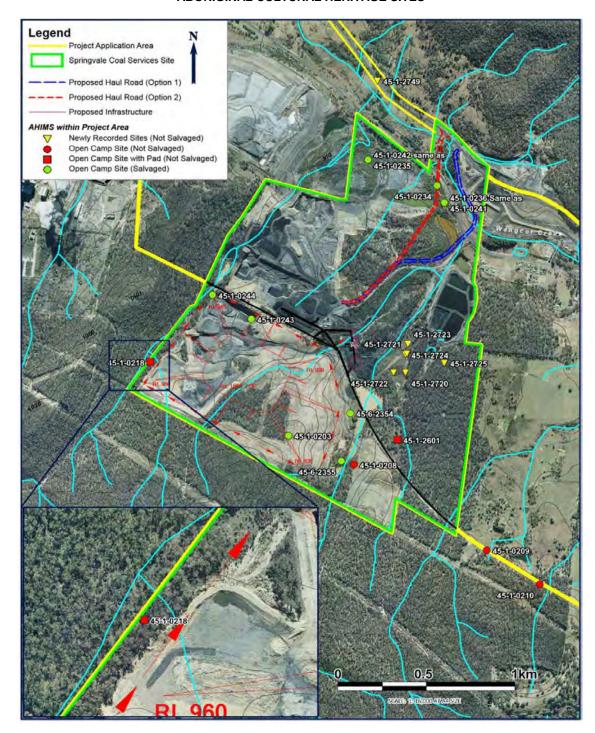


Figure 1: Location of Aboriginal cultural heritage sites

# APPENDIX 7 ADDITIONAL REHABILITATION INITIATIVES

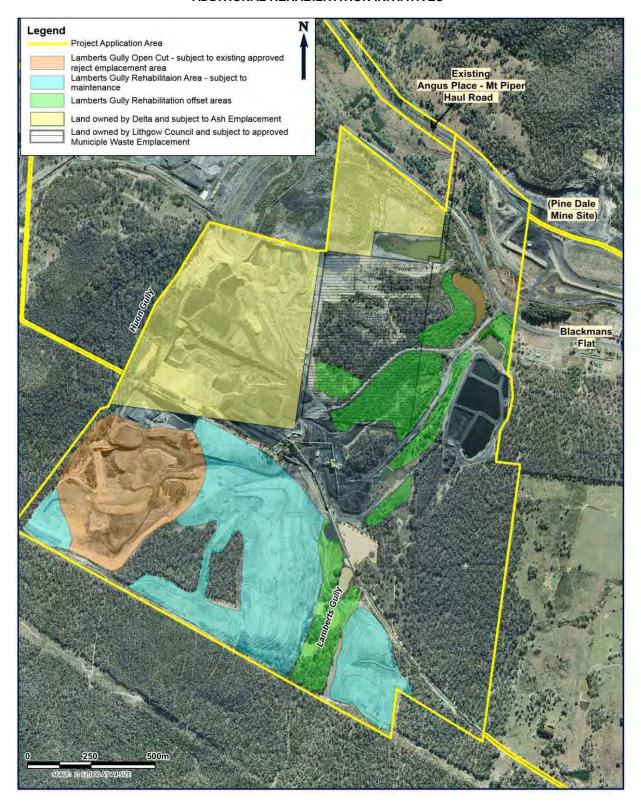


Figure 1: Location of Additional Rehabilitation Initiatives at SCSS (in green)

# APPENDIX 8 STATEMENT OF COMMITMENTS

# EIS Table 66 - Project Development Phase - Statement of Commitments

Desired Outcome	Action
Development Phase	
All construction operations are appropriately undertaken to minimise potential impacts to the environment.	<ul> <li>1.1 Appropriate erosion and sediment control measures will be implemented for construction of the upgrading of the Washery and associated infrastructure (additional conveyors and transfer points on the Springvale Coal Services Site, refer to Figure 8 of the EIS), extension and enlargement of the existing REA, and construction of the Link Haul Road and overpass of the Castlereagh Highway and will be installed prior to commencement of disturbance activities, generally in accordance with the guidelines 'Managing Urban Stormwater – Soils and Construction, Volume 2E: Mines and Quarries' (DECC 2008).</li> <li>1.2 A Works Authorisation Deed with RMS will be obtained for the overpass of the Castlereagh Highway prior to construction works within the highway easement.</li> <li>1.3 Prior to construction a CEMP will be prepared for the Springvale Coal Services Site that will be implemented during the construction phase and will include:  Noise Management Plan;  Air Quality Management Plan;  Site Water Management Plan;  Groundwater Management Plan;  Cultural Heritage Management Plan;  Weed Management Plan; and  Construction Traffic Management Plan.</li> </ul>

# EIS Table 67 - Project Operation - Statement of Commitments

Desired Outcome	Action	
1.General		
All operations are undertaken in a manner that will minimise the environmental impacts associated with the Project.	<b>1.1</b> Operations will be undertaken generally in accordance with the description provided in this EIS dated April 2013.	
2. Hours of Operation		
All operations are undertaken within the approved operating hours.	2.1 Operations may be undertaken 24 hours a day 7 days a week.	
3. Noise and Vibration		
All noise impacts are minimised to the greatest extent possible.	<ul> <li>3.1 Removal of the northern two thirds of the existing Co-Disposal REA at the Springvale Coal Services Site within five years of Project Approval.</li> <li>3.2 The construction of the Link Haul Road in the location as depicted in Figure 1 of the EIS.</li> <li>3.3 Material haulage will be managed to maintain compliance with the approved noise criteria on the private Haul Roads.</li> <li>3.4 Reduction of truck movements along Mt Piper Haul Road during prevailing noise enhancing weather conditions in order to meet the nominated Project Specific Noise Criteria. The default level will be zero trucking during these conditions until such time as noise monitoring confirms the truck movements required to meet the Project Specific Noise Criteria during these conditions.</li> <li>3.5 Within 6 months of the date of the Project Approval, A Noise Management Plan will be prepared in consultation with the EPA. The Noise Management Plan will include the existing monitoring and mitigation strategies contained in the current approved Angus Place Noise Monitoring program, specifically, quarterly inspections of road surfaces, quarterly attended and unattended monitoring to assess compliance and additional noise</li> </ul>	

Desired Outcome	Action			
	monitoring in response to noise complaints. The Noise Management Plan will include a protocol for determining the prevailing noise enhancing weather conditions which would trigger reduced transport on the Mt Piper Haul Road.  3.6 The following dust mitigation measures will be implemented and will be completed prior to operating the new infrastructure:  □ Enclosure of the existing and proposed Washery; □ Enclosure of conveyor transfer points; □ Loading of coal rejects from an enclosed bin; □ Majority of coal reclaimed from stockpiles via underground reclaim tunnel; □ Three quarter enclosed conveyors; and □ New Link Haul Road will be fully sealed.			
4.41.0	<b>3.7</b> Location of infrastructure as per Figure 8 of the EIS.			
All air quality impacts are minimised to the greatest extent possible.	<ul> <li>4.1 The following dust mitigation measures will be implemented and will be completed prior to operating the new infrastructure:    Enclosure of the existing and proposed Washery;   Enclosure of conveyor transfer points;   Loading of coal rejects from an enclosed bin;   Majority of coal reclaimed from stockpiles via underground reclaim tunnel;   Three quarter enclosed conveyors;</li> <li>Stockpile water sprays which are wind activated;</li> <li>New Link Haul Road will be fully sealed;</li> <li>Regular use of water carts on unsealed roads trafficked by heavy vehicles. This will include the surface of the proposed REA; and</li> <li>Installation of a TEOM continuous atmospheric dust monitoring unit within the Blackmans Flat residential area.</li> <li>4.2 Within 6 months of the date of the Project Approval, an updated Air Quality Management Plan will be prepared for the entire PAA. The plan will be prepared in consultation with the EPA.</li> </ul>			
5. Surface Water, Groundwater, Geomo				
All surface water groundwater and aquatic impacts are minimised to the greatest extent possible.	<ul> <li>5.1 Within 6 months of Project Approval a single Water Management Plan will be prepared for the entire PAA and will include operation of the new infrastructure, water recycling system, surface and groundwater monitoring including Wangcol Creek mixing zone and a staged implementation of the separation of the Lamberts Gully drainage line as it passes through the Springvale Coal Services Site as well as the localised changes associated with approved Mt Piper Power Station Ash Emplacement Project.</li> <li>5.2 Within 6 months of the date of the Project Approval apply for any necessary water licenses covering the Springvale Coal Services Site.</li> <li>5.3 Within 5 years of the date of the Project Approval, complete the</li> </ul>			

Desired Outcome	Action
	the consent.
Desired Outcome	5.5 Construct a pollution control pond control runoff from the new REA. This structure will have a capacity of approximately 15 ML and will be located on the north-eastern corner of the REA. The dam will have a pipe connection to the existing Washery Dam, which is connected to Cooks Dam via a pipeline. This will enable treated stormwater from the new REA to be recycled back to the Washery via Cooks Dam. This dam is to be constructed once the current A Pit REA is completed but prior to the base of the new REA being completed.  5.6 Provision of a belt press filter system (or equivalent) to recover water from the tailings produced from the new Washery. This water recovery system will cover tailings produced from the existing Washery but will be installed as part of the construction of the new Washery.  5.7 Apply for a separate EPL covering the entire PAA that includes LDP 003 (Kerosene Vale Stockpile Area) and LDP 006 and LDP 007 (conveyor at Duncan Street, Lidsdale).  5.8 Within 3 months of completion of the clean and dirty water separation system consent apply to relocate the current LDP006 to the spillway of Cooks Dam and replace the existing LDP006 with a license monitoring point.  5.9 Within 6 months of completion of the Link Haul Road, complete the additional riparian planting for a 100 m section of Wangcol Creek downstream of the Link Haul Road crossing. The species selection and density is to be determined in consultation with the WaterNSW and DPIE — Water.  5.10 Within 12 months of Project Approval, site specific trigger values based on ANZECC 2000 Guidelines will be developed for Wangcol Creek.  5.11 To better understand the groundwater linkages, within 12 months of Project Approval, a baseline groundwater monitoring program will be established for the Springvale Coal Services Site. The baseline groundwater monitoring program will include:  □ Quarterly monitoring of water levels from a network of monitoring bores following the completion of construction;
	<ul> <li>Six monthly sampling of monitoring bores for field analysis of pH, EC and temperature and laboratory analysis on major ions, pH, EC, TDS, dissolved arsenic, cadmium, chromium, copper, iron, lead, manganese, nickel and zinc; and</li> <li>An annual review so that its capacity as an accurate predictive</li> </ul>
C. Viewel	tool can be assessed and maintained.
6. Visual	<b>6.1</b> Prior to its completion, the battered slopes of the Link Haul Road
All visual impacts are minimised to the greatest extent possible.	overpass bridge will be planted with low maintenance hardy groundcover flowering species.  6.2 Staged rehabilitation of the REA will be in accordance with the timeframes provided within the EIS.
7. Aboriginal Heritage Management	74 Within the state of D. 1. 1. A
Ensure that identified and unidentified Aboriginal Sites are appropriately managed.	<b>7.1</b> Within six months of Project Approval, a CHMP will be prepared as part of the ongoing management of the Springvale Coal Services Site. The CHMP which will be developed in consultation with the Aboriginal Stakeholders.
8. Traffic Management	94 The Link Houl Dood will be constructed in accordance 19
Project-related impacts on the road network are limited.	<ul> <li>8.1 The Link Haul Road will be constructed in accordance with AUSROADS Guidelines in consultation with RMS.</li> <li>8.2 All construction sites associated with the infrastructure upgrade prepare and implement a Construction Traffic Management Plan.</li> <li>8.3 Upgrade Springvale Coal Services intersection line-marking to RMS standards.</li> </ul>

Desired Outcome	Action	
9. Contamination		
Potential contamination impacts are minimised to the greatest extent possible.	<b>9.1</b> A Phase 2 Assessment of the entire Springvale Coal Services Site will be conducted before February 2015, in accordance with Springvale Coal's stated commitments to the NSW EPA (letter dated 2 February 2012).	
10. Rehabilitation		
Rehabilitation of the Springvale Coal Services Site is conducted in accordance with Industry Standards.	10.1 Within six months of Project Approval a single Rehabilitation Plan will be prepared for the entire PAA in consultation with the Department and will include the timeframes provided within this EIS, details of the rehabilitation methods, monitoring and reporting framework. Results arising from the implementation of the program will be reported each year in the Annual Review (currently referred to as the AEMR). 10.2 The rehabilitation program will include previous commitments from the Lamberts Gully Project Approval (06-0017) including Eucalyptus cannonii.	

## **Project Approval**

## Section 75J of the Environmental Planning & Assessment Act 1979

As delegate for the Minister for Planning and Infrastructure, the Planning and Assessment Commission of New South Wales (the Commission) approves the project application referred to in Schedule 1, subject to the Conditions in Schedules 2 to 5.

These conditions are required to:

- prevent or minimise adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- · require regular monitoring and reporting; and
- provide for the ongoing environmental management of the project.

**Garry West** 

A/Chair of the Commission

Parry west

Sydney 3 May 2013

**SCHEDULE 1** 

Application Number: 08\_0223

**Proponent:** Ivanhoe Coal Pty Ltd

Approval Authority: Minister for Planning and Infrastructure

Land: See Appendix 1

**Project:** Lidsdale Siding Upgrade Project

August 2019 MOD 1 in green type October 2019 MOD 2 in red type October 2020 MOD 3 in blue type

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#### **DEFINITIONS**

**Annual Review** Approval **BCA** CCC

Conditions of this approval

Day period

Department

EΑ

The review required by Condition 4 of Schedule 5

This Project Approval Building Code of Australia

Community Consultative Committee

Conditions contained in Schedules 2 to 5 inclusive

The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays

Department of Planning, Industry and Environment

Environmental Assessment titled 'Lidsdale Siding Upgrade Project - Environmental Assessment' dated August 2012, associated response to submissions titled 'Lidsdale Siding Upgrade Response to EA Submissions, dated November 2012, and 'Lidsdale Siding Upgrade Project Supplementary Report' dated March 2013, as modified by:

- MOD 1 Modification Report titled 'Lidsdale Siding: Environmental assessment for modification to development consent 08 0223' dated June 2019, associated Response to Submissions titled 'Lidsdale Siding MOD 1 -Response to Submissions' dated 2 August 2019 and Supplementary Response to Submissions dated 9 August 2019;
- MOD 2 Modification Report titled 'Lidsdale Siding: Modification report for modification to development consent 08\_0223' dated 23 September 2019 and Submissions Report dated 14 October 2019;
- MOD 3 Modification Report titled 'Lidsdale Siding: Modification report for the modification to development consent 08 0223' dated 14 April 2020, Submissions Report dated 22 May 2020 and additional information dated 19 June 2020 and 20 July 2020.

**FP&A Act EP&A Regulation** 

FPL Evenina Feasible

Heritage Item

Incident

Land

Material harm to the environment

Minister

Mitigation

Negligible

Night

**NRAR** 

**Planning Secretary** 

POEO Act

Privately-owned land

Project

Proponent Reasonable

Reasonable costs

Environmental Planning and Assessment Act 1979 Environmental Planning and Assessment Regulation 2000

**Environment Protection Authority** 

Environment Protection Licence issued under the POEO Act

The period from 6pm to 10pm

Feasible relates to engineering considerations and what is practical to build or to

implement

An item as defined under the Heritage Act 1977 and/or an Aboriginal object or Aboriginal place as defined under the National Parks and Wildlife Act 1974

A set of circumstances that:

causes or threatens to cause material harm to the environment; and/or

breaches or exceeds the limits or performance measures/criteria in this

As defined in the EP&A Act, except for where the term is used in the noise and air quality Conditions in Schedules 3 and 4 of this approval where it is defined to mean the whole of a lot, or contiguous lots, owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval Lithgow City Council

Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial

Minister for Planning and Public Spaces, or delegate

Activities associated with reducing the impacts of the project prior to or during those impacts occurring

Small and unimportant, such as to be not worth considering

The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and Public Holidays

Natural Resources Access Regulator Secretary of the Department, or nominee

Protection of the Environment Operations Act 1997

Land that is not owned by a public agency, Wallerawang Power Station or a

mining company (or its subsidiary) The project described in the EA

Ivanhoe Coal Pty Ltd, a subsidiary of Centennial Coal Company, or any other person or persons who rely on this approval to carry out the project that is subject

to this approval

Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided,

community views and the nature and extent of potential improvements

The costs agreed between the Department and the Proponent for obtaining independent experts to review the adequacy of any aspects of the determination

of the Rehabilitation Bond (see Condition 31 of Schedule 3)

Rehabilitation The treatment or management of land disturbed by the project for the purpose of

establishing a safe, stable and non-polluting environment.

Activities associated with partially or fully repairing or rehabilitating the impacts of Remediation

the projects or controlling the environmental consequences of this impact A residence and/or a commercial accommodation facility such as Black Gold

Cabins and the Royal Hotel

**TfNSW** Transport for NSW

Residence

## SCHEDULE 2 ADMINISTRATIVE CONDITIONS

#### **OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT**

1. In addition to meeting the specific performance criteria established under this approval, the Proponent must implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of the project.

#### **TERMS OF APPROVAL**

- 2. The Proponent must carry out the project:
  - (a) generally in accordance with the EA and Statement of Commitments; and
  - (b) in accordance with the conditions of this approval.

#### Notes:

- The general layout of the project is shown in Appendix 2.
- If there is any inconsistency between the above documents, the most recent document shall prevail to the
  extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any
  inconsistency.
- 4. The Proponent must comply with any reasonable requirement/s of the Planning Secretary arising from the Department's assessment of:
  - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this approval; and
  - (b) the implementation of any actions or measures contained in these documents.

#### **LIMITS ON APPROVAL**

#### **Operations**

 The Proponent may carry out coal handling and train loading/unloading operations on the site until 31 December 2042.

Note: Under this approval, the Proponent is required to rehabilitate the site and perform additional undertakings to the satisfaction of the Planning Secretary. Consequently, this approval will continue to apply in all other respects other than the right to conduct operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.

#### **Coal Transport**

- 6. The Proponent must not receive more than 6.3 million tonnes of coal at the site in any calendar year.
- 7. The Proponent must ensure that:
  - (a) all coal is transported to or from the site by conveyor or by rail;
  - (b) no more than 7 trains arrive at or leave the site each day (a maximum of 14 movements per day);
  - (c) no more than 5 trains arrive at or leave the site each day, when averaged over a calendar year; and
  - (d) coal train loading operations are not undertaken on the same day as coal train unloading operations.

#### **Hours of Operation**

- 8. The Proponent may undertake coal handling and train loading operations on site 24 hours a day, 7 days a week.
- 8A. The Proponent may receive and unload trains only during the day period.

### **Surrender of Existing Development Consents**

 Within 12 months of the date of this approval, or as otherwise agreed by the Planning Secretary, the Proponent must surrender all existing development consents for the site in accordance with Section 104A of the EP&A Act.

Note: This requirement does not extend to the surrender of construction and occupation certificates for existing and proposed building works under Part 4A of the EP&A Act. Surrender of a consent or approval should not be understood as implying that works legally constructed under a valid consent or approval can no longer be legally maintained or used.

10. Prior to the surrender of these consents, the conditions of this approval shall prevail to the extent of any inconsistency with the conditions of these consents.

#### STRUCTURAL ADEQUACY

11. The Proponent must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

#### Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.

#### **DEMOLITION**

12. The Proponent must ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601-2001: The Demolition of Structures*, or its latest version.

#### **OPERATION OF PLANT AND EQUIPMENT**

- 13. The Proponent must ensure that all the plant and equipment used at the site, or to transport coal to or from the site, is:
  - (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

#### STAGED SUBMISSION OF ANY STRATEGY, PLAN OR PROGRAM

14. With the approval of the Planning Secretary, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis.

Note: While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the operations on site are covered by suitable strategies, plans or programs at all times.

15. The Proponent must continue to implement existing strategies, plans or programs that apply to existing activities on the site until they are replaced by an equivalent strategy, plan or program approved under this approval.

# SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

#### **ACQUISITION ON REQUEST**

1. Upon receiving a written request for acquisition from the owner of Lot 2, Main Street, Wallerawang, the Proponent must acquire the land in accordance with the procedures in Conditions 5 - 6 of Schedule 4.

#### NOISE

#### **Noise Impact Assessment Criteria**

2. The Proponent must ensure that the noise generated by the project does not exceed the criteria in Table 1.

Table 1: Noise criteria dB(A)

Location	Day	Evening	Nig	ght
Location	L <sub>Aeq(15 min)</sub>	LAeq(15 min)	L <sub>Aeq(15 min)</sub>	L <sub>A1(1 min)</sub>
1- Lot 2 Main St, Wallerawang	50	50	50	55
2 – Black Gold Cabins, Main St, Wallerawang	48	46	46	49
3 – "Killarney", Brays Lane, Wallerawang	48	47	47	56
4 – "Fairview", Brays Lane, Wallerawang	43	43	43	54
5 – Duncan Street, Lidsdale	46	46	46	57
6 – Old Castlereagh Highway, Lidsdale	43	43	43	56
7 – Royal Hotel, Main St, Wallerawang	44	41	41	49
8 - Cnr Heel St & Cripps Ave, Wallerawang	43	40	40	45
9 - Cnr Cripps Ave & Pindari Pl, Wallerawang	40	39	39	45
10 – Brays Lane South, Wallerawang	45	45	45	50
11 – "Tara" Brays Lane, Wallerawang	45	45	45	51
12 – Brays Lane Corner, Wallerawang	43	43	43	51

#### Notes:

- To interpret the locations referred to in Table 1, see the figure in Appendix 3;
- Criteria applicable to a particular residence are those criteria for the nearest specified location in Table 1; and
- After the first review of any EPL granted for this project under Section 78 of the POEO Act, nothing in this approval
  prevents the EPA from imposing stricter noise limits on the operations on site under the EPL.

Noise generated by the project must be monitored and measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the *NSW Noise Policy for Industry* (EPA, 2017).

However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.

#### **Additional Noise Mitigation On Request**

3. Upon receiving a written request from the owner of any residence on land listed as Locations 1-4, 6-7, 10 or 11 in Table 1 (or at an existing residence within 200 m of Location 6 in Table 1) the Proponent must implement additional noise mitigation measures (such as double glazing, insulation, and/or air conditioning) at the residence in consultation with the owner. These measures must be reasonable and feasible.

If within 3 months of receiving this request from the owner, the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution.

- 3A. Upon receiving a written request from the owner of any residence within 100 m of Location R8 (see Appendix
  - 3), the Proponent must:
  - (a) undertake noise monitoring at the affected residence; and
  - (b) implement noise mitigation measures consistent with the measures outlined in the Voluntary Land Acquisition and Mitigation Policy for State Significant Mining, Petroleum and Extractive Industry Development (NSW Government 2018), if noise generated by the project is measured to meet or exceed 43 dB(A) LAeq(15 min).

If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Planning Secretary for resolution.

#### **Operating Conditions**

- 4. The Proponent must:
  - implement best practice noise management, including all reasonable and feasible noise mitigation measures to minimise the operational and rail noise generated by the project;
  - regularly assess the results of noise monitoring to ensure compliance with the relevant conditions of this approval,

to the satisfaction of the Planning Secretary.

#### **Independent Noise Audit**

- 5. The Proponent must prepare and implement an Independent Noise Audit for the project to the satisfaction of the Planning Secretary. The audit must:
  - be prepared by a suitably qualified and experienced expert, whose appointment has been approved by the Planning Secretary;
  - (b) be prepared in consultation with the EPA, and be submitted to the Planning Secretary for approval within 12 months of completion of the upgrade to the coal loader;
  - (c) incorporate monthly attended noise monitoring results for the project (unless otherwise agreed with the Planning Secretary);
  - (d) investigate and evaluate all reasonable and feasible measures to mitigate operational noise (including on-site rail noise) to ensure compliance with the noise criteria in Table 1; and
  - (e) review the feasibility of reducing the number of night-time train movements to/from the site; and
  - include an action plan to implement the audit recommendations and a protocol for monitoring the effectiveness of these measures over time.

#### **Construction Noise**

 Prior to the commencement of construction activities on the site, the Proponent must prepare (and during construction implement) a Construction Noise Management Plan prepared in accordance with EPA's Interim Construction Noise Guideline 2009 (or any relevant updated version), to the satisfaction of the Planning Secretary.

#### **Noise Management Plan**

- 7. The Proponent must prepare and implement a Noise Management Plan for the project to the satisfaction of the Planning Secretary. This plan must:
  - (a) be prepared in consultation with the EPA, and submitted to the Planning Secretary for approval within 6 months of the date of this approval, unless otherwise agreed by the Planning Secretary;
  - (b) describe the noise mitigation measures that would be implemented to ensure compliance with the noise criteria in Table 1, including the specific measures that would be implemented to minimise train loading/unloading and rail noise generated by the project, including noise associated with:
    - loading coal onto trains;
    - unloading coal from trains;
    - braking and accelerating of trains;
    - train warning horns; and
    - idling locomotives, particularly during the night;
  - outline procedures to manage responses to any complaints or issues raised by the owners of affected residences; and
  - (d) include a noise monitoring program that:
    - incorporates monthly attended noise monitoring to evaluate the performance of the project against the noise criteria in Table 1 (unless otherwise agreed with the Planning Secretary);
    - includes a protocol for determining exceedences of the relevant conditions of this approval; and
    - includes a program to monitor the actual sound power levels of the equipment on site, compare it with the benchmark levels used in the EA, and evaluate the effectiveness of any attenuation.

#### Notes:

• It is expected that monthly attended noise monitoring will be required for at least 12 months following the completion of the construction of the upgraded coal loader. After 12 months, the Planning Secretary may agree to reduce the frequency of attended noise monitoring provided the operational noise performance of the project is acceptable.

 The effectiveness of the Noise Management Plan is to be reviewed and audited in accordance with the requirements in Schedule 5

#### **AIR QUALITY & GREENHOUSE GAS**

#### Air Quality Assessment Criteria

8. The Proponent must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria listed in Tables 3, 4 or 5 at any residence on privately-owned land.

Table 3: Long-term criteria for particulate matter

Pollutant	Averaging Period	<sup>d</sup> Criterion
Total suspended particulate (TSP) matter	Annual	<sup>a</sup> 90 μg/m³
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	<sup>a</sup> 25 μg/m <sup>3</sup>

Table 4: Short-term criterion for particulate matter

Pollutant	Averaging Period	<sup>d</sup> Criterion
Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	<sup>a</sup> 50 μg/m <sup>3</sup>

Table 5: Long-term criteria for deposited dust

Pollutant	Averaging Period	Maximum increase in deposited dust level	Maximum total deposited dust level
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m²/month

Notes to Tables 3 to 5:

- a Total impact (ie incremental increase in concentrations due to the project plus background concentrations due to all other sources);
- b Incremental impact (ie incremental increase in concentrations due to the project on its own);
- <sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter -Deposited Matter - Gravimetric Method.
- d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, illegal activities or any other activity agreed by the Planning Secretary in consultation with EPA.

#### **Operating Conditions**

- 9. The Proponent must:
  - implement best practice air quality management on site, including all reasonable and feasible measures to minimise the off-site odour and dust emissions generated by the project;
  - (b) minimise any visible air pollution generated by the project;
  - (c) install and operate equipment capable of applying water to the surface of coal loaded onto trains prior to leaving the site;
  - (d) regularly assess the air quality monitoring results to ensure compliance with the relevant conditions of this approval,

to the satisfaction of the Planning Secretary.

#### Air Quality & Greenhouse Gas Management Plan

- 10. The Proponent must prepare and implement an Air Quality & Greenhouse Gas Management Plan for the project to the satisfaction of the Planning Secretary. This plan must:
  - (a) be prepared in consultation with EPA, and submitted to the Planning Secretary for approval within 6 months of the date of this approval;
  - (b) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval;
  - (c) include an air quality monitoring program, that:
    - uses a combination of volumetric sampling and dust deposition gauges to evaluate the performance of the project;
    - monitors greenhouse gas emissions, and
    - includes a protocol for determining exceedances with the relevant conditions of this approval;
  - (d) describe the measures that would be implemented to minimise the release of greenhouse gas emissions from the site.

#### **METEOROLOGICAL MONITORING**

- 11. During the life of the project, the Proponent must ensure that there is a suitable meteorological station operating in the vicinity of the site that:
  - (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and
  - (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the INP

### **TRANSPORT**

#### **Monitoring of Coal Transport**

- 12. The Proponent must:
  - (a) keep accurate records of the amount of coal transported to and from the site (on a monthly basis);
  - (b) make these records publicly available in the annual review and on its website at the end of each calendar year.

#### **Construction Traffic Management Plan**

- 13. The Proponent must prepare and implement a Construction Traffic Management Plan for the project, to the satisfaction of the Planning Secretary. This plan must be prepared in consultation with LCC and TfNSW, and must be submitted to the Planning Secretary for approval prior to the commencement of construction activities on the site. The plan must address:
  - (a) interactions of construction traffic with rail level crossings;
  - (b) management of wide loads:
  - (c) minimising inconvenience to the public, particularly due to traffic noise and volumes; and
  - (d) maintaining public safety.

#### Level Crossings, Main Street and Brays Lane, Wallerawang

- 14. Within 6 months of the date of this approval, the Proponent must upgrade the rail level crossings of Main Street and Brays Lane, Wallerawang, unless the Planning Secretary directs otherwise, by:
  - (a) installing additional signage and line marking on Main Street Wallerawang;
  - (b) installing upgraded safety measures at the Brays Lane level crossing in accordance with the relevant Australian standard.

The design and construction of these works must be undertaken in consultation with, and to the satisfaction of LCC and the relevant rail authority and/or its agent.

#### **SOIL AND WATER**

Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Proponent is required to obtain all necessary water licences for the project.

#### **Water Supply**

- 15. The Proponent must ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of its operations to match its available water supply, to the satisfaction of the Planning Secretary.
- 16. The Proponent must preferentially use excess mine water from the Springvale Coal Mine for dust suppression at the site rather than potable town water supply.

#### **Surface Water Discharges**

17. The Proponent must ensure that all surface water discharges from the site comply with the discharge limits (both volume and quality) set for the project in any EPL.

#### **Remediation of Soil Contamination**

18. Within 6 months of the date of this approval, unless otherwise agreed by the Planning Secretary, the Proponent must undertake a Phase 2 Contamination Assessment for the site and implement any necessary remediation within 18 months of this approval in accordance with the requirements of the Contaminated Land Management Act 1997, to the satisfaction of the EPA.

#### **Construction Erosion and Sediment Control Plan**

19. The Proponent must prepare and implement an Erosion and Sediment Control Plan for construction on the site to the satisfaction of the Planning Secretary. This plan must:

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- (a) be prepared by suitably qualified and experienced person(s) whose appointment has been approved by the Planning Secretary:
- (b) be submitted to the Planning Secretary for approval prior to the commencement of construction activities on the site;
- (c) be consistent with the requirements of the *Managing Urban Stormwater Soils and Construction,* Volume 2E: Mines and Quarries (DECC 2008), or its latest version:
- identify activities that could cause soil erosion and generate sediment, particularly in relation to activities near waterways;
- (e) describe the location, function, and capacity of erosion and sediment control structures;
- (f) describe what measures would be implemented to maintain the structures over time; and
- (g) describe the sediment and erosion control measures to be implemented for all activities undertaken at the site, particularly during the construction phase of the project.

#### **Flooding**

- 20. The Proponent must undertake a flood study for the site to the satisfaction of the Planning Secretary. This study must:
  - (a) be prepared in consultation with EPA and WaterNSW by suitably qualified and experienced persons whose appointment has been approved by the Planning Secretary;
  - (b) be submitted to the Planning Secretary for approval within 12 months of the date of this approval; and
  - (c) include:
    - · an assessment of the risk of flooding at the site;
    - an assessment of the implications of flooding on operations at the site (including the functioning of the surface water management system) and the risks associated with off-site contamination:
    - modelling of the effects of proposed flood mitigation and control measures, (such as Willow removal from the channel of Pipers Flat Creek), by the use of a calibrated hydrological model;
    - investigation of any other measures to reduce the impacts of flooding at the site;
    - identify any additional reasonable and feasible flood mitigation and control measures; and
    - a commitment and timetable for the implementation of these measures.

#### **Water Management Plan**

- 21. The Proponent must prepare and implement a Water Management Plan for the project to the satisfaction of the Planning Secretary. This plan must be prepared in consultation with the EPA, NRAR and WaterNSW by suitably qualified and experienced persons, and be submitted to the Planning Secretary for approval within 6 months of the date of this approval. The plan must include
  - (a) a Site Water Balance that includes details of:
    - · sources and security of water supply;
    - · water use on site;
    - · water management on site; and
    - any water transfers to/from the site;
  - (b) a Surface Water Management Plan that includes:
    - a description of the surface water management system for the project including clean water diversions, erosion and sediment controls, and water storages;
    - baseline data on surface water flows and quality of Pipers Flat Creek which receives the water from the licensed discharge point identified in the site's EPL;
    - surface water quality and stream health assessment criteria, including trigger levels for investigating any potentially adverse surface water impacts;
    - a surface water monitoring program for surface water discharges, surface water flows and quality, and stream health and channel stability of Pipers Flat Creek; and
    - measures to reuse and recycle water, and to minimise potable water use from the town water supply;
  - (c) a Groundwater Monitoring Program that includes:
    - detailed baseline data of all groundwater levels, yield and quality in the area, and any privatelyowned groundwater bores that may be affected by the project;
    - groundwater assessment criteria based upon analysis of baseline data for groundwater, including trigger levels for investigating any potentially adverse groundwater impacts; and
    - a program to monitor and/or validate the impacts of the project on any privately-owned groundwater bores that may be affected by the project;
  - (d) a Surface and Ground Water Response Plan that describes the measures and/or procedures that would be implemented to:
    - respond to any exceedances of the surface water, stream health, and groundwater assessment criteria; and
    - mitigate and/or offset any adverse impacts on surface water and groundwater resources located within and adjacent to the site.

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#### **BIODIVERSITY**

#### **Biodiversity Management Plan**

- 22. The Proponent must prepare and implement a Biodiversity Management Plan for the project to the satisfaction of the Planning Secretary. This plan must:
  - (a) be submitted to the Planning Secretary for approval within 6 months of the date of this approval;
  - (b) be prepared by a suitably qualified ecologist;
  - (c) include a detailed description of measures that would be implemented over the life of the project to protect and conserve biodiversity, including:
    - management and enhancement of retained native vegetation, (particularly Eucalyptus aggregata) and habitat on site;
    - a detailed program (both proposed works and timetable) for the removal of Willow trees from Pipers Flat Creek; and
    - measures to manage and control weeds, feral animals and fire (including asset protection and management zones).

#### **HERITAGE**

#### Heritage Management Plan

- 23. The Proponent must prepare and implement a Heritage Management Plan for the project to the satisfaction of the Planning Secretary. This Plan must:
  - (a) be prepared in consultation with any relevant Aboriginal stakeholders;
  - (b) be submitted to the Planning Secretary for approval within 6 months of the date of this approval;
  - (c) include consideration of the Aboriginal and non-Aboriginal cultural context and significance of the site:
  - (d) detail the responsibilities of all stakeholders; and
  - include programs/procedures and management measures for appropriate identification, management, conservation and protection of both Aboriginal and non-Aboriginal heritage items identified on the site.

#### St John Evangelist Church

- 24. Within 12 months of the date of this approval, the Proponent must, in consultation with the owners of the St John Evangelist Church, Main Street, Wallerawang, investigate and report on the likely visual and vibration impacts of the project on the Church building and its setting. These investigations must:
  - (a) be prepared by suitably qualified and experienced persons approved by the Planning Secretary;
  - (b) provide recommendations to mitigate any impacts, other than those considered to be negligible;
  - (c) summarise in a report provided to the Planning Secretary along with the Proponent's response to the recommendations in (b) above, including a commitment and a timetable for their implementation.

#### VISUAL

#### **Visual Amenity and Lighting**

- 25. The Proponent must:
  - (a) minimise visual impacts, and particularly the off-site lighting impacts;
  - (b) take all practicable measures to further mitigate off-site lighting impacts from the project; and
  - (c) ensure that all external lighting associated on site complies with Australian Standard AS4282 (INT) 1995 Control of Obtrusive Effects of Outdoor Lighting,

to the satisfaction of the Planning Secretary.

#### WASTE

- 26. The Proponent must:
  - (a) minimise the waste generated by the project; and
  - (b) ensure that the waste generated by the project is appropriately stored, handled and disposed of, to the satisfaction of the Planning Secretary.

### **BUSHFIRE MANAGEMENT**

- 27. The Proponent must:
  - (a) ensure that the project is suitably equipped to respond to any fires on site; and
  - (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the surrounding area.

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#### **REHABILITATION**

#### **Rehabilitation Objectives**

28. The Proponent must rehabilitate the site to the satisfaction of the Planning Secretary. This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the EA, and comply with the objectives in Table 6.

Table 6: Rehabilitation Objectives

Feature	Objective
Project Area	Safe, stable & non-polluting Final land use compatible with surrounding land uses
Surface Infrastructure	To be decommissioned and removed, unless the Planning Secretary agrees otherwise
Community	Ensure public safety Minimise the adverse socio-economic effects associated with the closure of the project

Note: These rehabilitation objectives apply to all impacts and environmental consequences caused by coal handling and train loading operations taking place after the date of this approval; and to all project infrastructure, whether constructed prior to or following the date of this approval.

#### **Rehabilitation Management Plan**

- 29. The Proponent must prepare and implement a Rehabilitation Management Plan for the project to the satisfaction of the Planning Secretary. This plan must:
  - (a) be prepared in consultation with the WaterNSW, EPA, LCC and the CCC;
  - (b) be submitted to the Planning Secretary for approval within 12 months of the date of this approval;
  - (c) describe how the performance of the rehabilitation would be assessed against the rehabilitation objectives in Table 6; and
  - (d) provide for detailed closure planning, including measures to minimise socio-economic effects due to facility closure, to be conducted at least 3 years prior to the site being closed or placed on care and maintenance, unless otherwise approved by the Planning Secretary in the circumstances of unexpected closure.

#### **Rehabilitation Bond**

30. Within 12 months of the date of this approval, the Proponent must lodge a rehabilitation bond for the project with the Planning Secretary. The sum of the bond must be calculated in accordance with the current publicly-available version of methodology and calculation spreadsheets utilised by the Resources Regulator for the purpose of determining rehabilitation liabilities for mine sites, to the satisfaction of the Planning Secretary. The Proponent must pay the Department's reasonable costs in engaging experts to review the adequacy of the calculated sum of the bond.

If the rehabilitation and revegetation works are completed to the satisfaction of the Planning Secretary, the Planning Secretary will release the rehabilitation bond.

If the rehabilitation and revegetation works are not completed to the satisfaction of the Planning Secretary, the Planning Secretary will call in all or part of the rehabilitation bond, and arrange for the satisfactory completion of the relevant works.

- 31. Within 3 months of each Independent Environmental Audit (see Condition 9 of Schedule 5), the Proponent must review, and if necessary revise, the sum of the rehabilitation bond to the satisfaction of the Planning Secretary. This review must consider:
  - (a) the effects of inflation; and
  - (b) the performance of the rehabilitation to date.

## SCHEDULE 4 ADDITIONAL PROCEDURES

#### **NOTIFICATION OF LANDOWNERS**

- 1. By the end of September 2013, the Proponent must notify in writing the owners of:
  - the land listed in Condition 1 of Schedule 3 that they have the right to require the Proponent to acquire their land at any stage during the project; and
  - (b) any residence on the land listed in Condition 3 of Schedule 3 that they are entitled to ask for additional noise mitigation measures to be implemented at their residence at any stage during the project.
- 2. As soon as practicable after obtaining monitoring results showing an exceedance of any relevant criteria in Schedule 3, the Proponent must:
  - (a) quantify the nature and extent of the exceedances of the criteria in Schedule 3;
  - (b) notify all affected landowners in writing of the exceedance:
  - (c) provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria: and
  - (d) provide a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of residences where there is an exceedance of any relevant air quality criteria in Schedule 3.

#### **INDEPENDENT REVIEW**

 If an owner of privately-owned land considers the project to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Planning Secretary in writing for an independent review of the impacts of the project on his/her land.

If the Planning Secretary is satisfied that an independent review is warranted, then within 2 months of the Planning Secretary's decision the Proponent must:

- commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Planning Secretary, to:
  - consult with the landowner to determine his/her concerns;
  - conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and
  - if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and
- (b) give the Planning Secretary and landowner a copy of the independent review.

#### LAND ACQUISITION

- 4. Within 3 months of receiving a written request from a landowner with acquisition rights, the Proponent must make a binding written offer to the landowner based on:
  - (a) the current market value of the landowner's interest in the land at the date of this written request, as if the land was unaffected by the project, having regard to the:
    - existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and
    - presence of improvements on the land and/or any approved building or structure which has been physically commenced on the land at the date of the landowner's written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of any additional mitigation measures under Schedule 3;
  - (b) the reasonable costs associated with:
    - relocating within the Lithgow local government area, or to any other local government area determined by the Planning Secretary; and
    - obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and
  - (c) reasonable compensation for any disturbance caused by the land acquisition process.

However, if at the end of this period, the Proponent and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Planning Secretary for resolution.

Upon receiving such a request, the Planning Secretary will request the President of the NSW Division of the Australian Property Institute to appoint a qualified independent valuer to:

- consider submissions from both parties;
- determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;
- prepare a detailed report setting out the reasons for any determination; and
- provide a copy of the report to both parties.

Within 14 days of receiving the independent valuer's report, the Proponent must make a binding written offer to the landowner to purchase the land at a price not less than the independent valuer's determination.

However, if either party disputes the independent valuer's determination, then within 14 days of receiving the independent valuer's report, they may refer the matter to the Planning Secretary for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent valuer's determination. Following consultation with the independent valuer and both parties, the Planning Secretary will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report disputing the independent valuer's determination, and any other relevant submissions.

Within 14 days of this determination, the Proponent must make a binding written offer to the landowner to purchase the land at a price not less than the Planning Secretary's determination.

If the landowner refuses to accept the Proponent's binding written offer under this Condition within 6 months of the offer being made, then the Proponent's obligations to acquire the land shall cease, unless the Planning Secretary determines otherwise.

5. The Proponent must pay all reasonable costs associated with the land acquisition process described in Condition 5 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.

## SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

#### **ENVIRONMENTAL MANAGEMENT**

#### **Environmental Management Strategy**

- 1. The Proponent must prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Planning Secretary. This strategy must:
  - (a) be submitted for approval to the Planning Secretary within 9 months of the date of this approval;
  - (b) provide the strategic framework for the environmental management of the project;
  - (c) identify the statutory approvals that apply to the project;
  - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;
  - (e) describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise during the course of the project;
    - respond to any non-compliance;
    - respond to emergencies; and
  - (f) include:
    - copies of any strategies, plans and programs approved under the conditions of this approval;
       and
    - a clear plan depicting all the monitoring required to be carried out under the conditions of this
      approval.

#### **Management Plan Requirements**

- 2. The Proponent must ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:
  - (a) detailed baseline data:
  - (b) a description of:
    - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - any relevant limits or performance measures/criteria;
    - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;
  - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
  - (d) a program to monitor and report on the:
    - impacts and environmental performance of the project;
    - effectiveness of any management measures in (c) above;
  - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;
  - (f) a protocol for managing and reporting any:
    - incidents;
    - · complaints;
    - · non-compliances with statutory requirements; and
    - exceedances of the impact assessment criteria and/or performance criteria; and
  - (g) a protocol for periodic review of the plan.

Note: The Planning Secretary may waive some of these requirements if they are unnecessary for particular management plans.

#### **Adaptive Management**

3. The Proponent must assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Proponent must, at the earliest opportunity:

- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur;
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and

(c) implement remediation measures as directed by the Planning Secretary, to the satisfaction of the Planning Secretary.

#### **Annual Review**

- 4. By the end of February 2014, and annually thereafter, the Proponent must review the environmental performance of the project to the satisfaction of the Planning Secretary. This review must:
  - (a) describe the development (including any rehabilitation) that was carried out in the past calendar year, and the development that is proposed to be carried out over the next year;
  - (b) include a comprehensive review of the monitoring results and complaints records of the project over the past calendar year, which includes a comparison of these results against the:
    - the relevant statutory requirements, limits or performance measures/criteria;
    - · requirements of any plan or program required under this approval;
    - the monitoring results of previous years; and
    - the relevant predictions in the EA;
  - (c) identify any non-compliance over the past year, and describe what actions were (or are being) taken to ensure compliance;
  - (d) identify any trends in the monitoring data over the life of the project;
  - (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and
  - (f) describe what measures will be implemented over the next year to improve the environmental performance of the project.

#### Revision of Strategies, Plans and Programs

- 5. Within 3 months of:
  - (a) the submission of an annual review under Condition 4 above:
  - (b) the submission of an incident report under Condition 7 below;
  - (c) the submission of an audit under Condition 9 below; and
  - (d) any modification to the conditions of this approval (unless the conditions require otherwise), the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Planning Secretary.

Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.

#### **Community Consultative Committee**

6. Within 12 months of the date of this approval, the Proponent must establish and operate a regional Community Consultative Committee (CCC) in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007, or its latest version), and to the satisfaction of the Planning Secretary. This CCC is to service this project and any other approved project and/or development operated by the company in the Western Coalfield.

#### Notes:

- The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval; and
- In accordance with the guideline, the Committee should be comprised of an independent chair and appropriate representation from the Proponent, LCC, recognised environmental groups and the local community.

#### **REPORTING**

#### **Incident Reporting**

7. The Proponent must notify the Planning Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incidents associated with the project, the Proponent must notify the Planning Secretary and any other relevant agencies as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent must provide the Planning Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

#### Regular Reporting

The Proponent must provide regular reporting on the environmental performance of the project on its
website, in accordance with the reporting arrangements in any plans or programs approved under the
conditions of this approval.

#### INDEPENDENT ENVIRONMENTAL AUDIT

- 9. Within 12 months of completion of the upgrade to the coal loader, and every 3 years thereafter, unless the Planning Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:
  - (a) be conducted by a suitably qualified, experienced and independent team of experts (including a noise and air quality expert) whose appointment has been endorsed by the Planning Secretary;
  - (b) include consultation with the relevant agencies;
  - (c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval and any relevant EPL (including any assessment, plan or program required under these approvals);
  - (d) review the rail haulage and coal loading/unloading operations and determine whether all reasonable and feasible measures are being implemented to minimise the noise and dust impacts of the project; and
  - (e) recommend appropriate measures or actions to improve the environmental performance and rehabilitation of the project while on care and maintenance or following mine closure.

Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Planning Secretary.

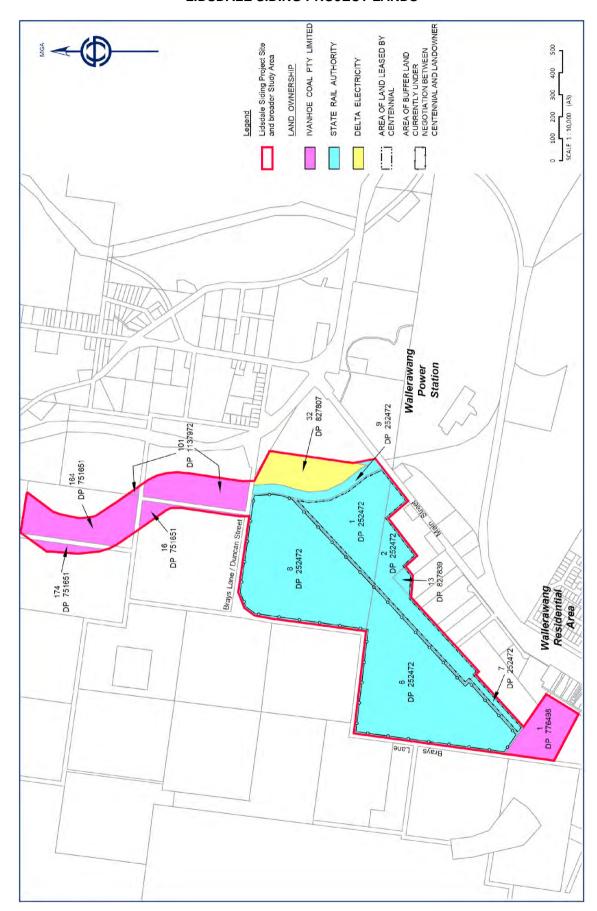
10. Within 6 weeks of the completion of this audit, or as otherwise agreed by the Planning Secretary, the Proponent must submit a copy of the audit report to the Planning Secretary, together with its response to any recommendations contained in the audit report.

#### **ACCESS TO INFORMATION**

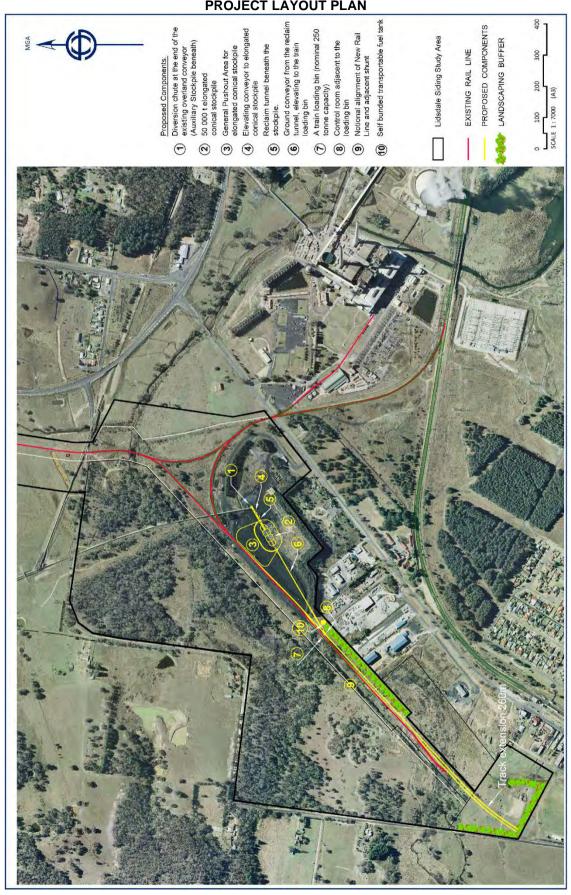
- 11. From the end of October 2013, the Proponent must:
  - (a) make copies of the following publicly available on its website:
    - the documents referred to in Condition 2 of Schedule 2;
    - all relevant statutory approvals for the project;
    - all approved strategies, plans and programs required under the conditions of this approval;
    - a comprehensive summary of the monitoring results of the project, reported in accordance with the specifications in any approved plans or programs required under the conditions of this or any other approval;
    - a complaints register, which is to be updated on a monthly basis;
    - minutes of CCC meetings;
    - the annual reviews required under this approval;
    - any independent environmental audit of the project, and the Proponent's response to the recommendations in any audit;
    - · any other matter required by the Planning Secretary; and
  - (b) keep this information up-to-date,

to the satisfaction of the Planning Secretary.

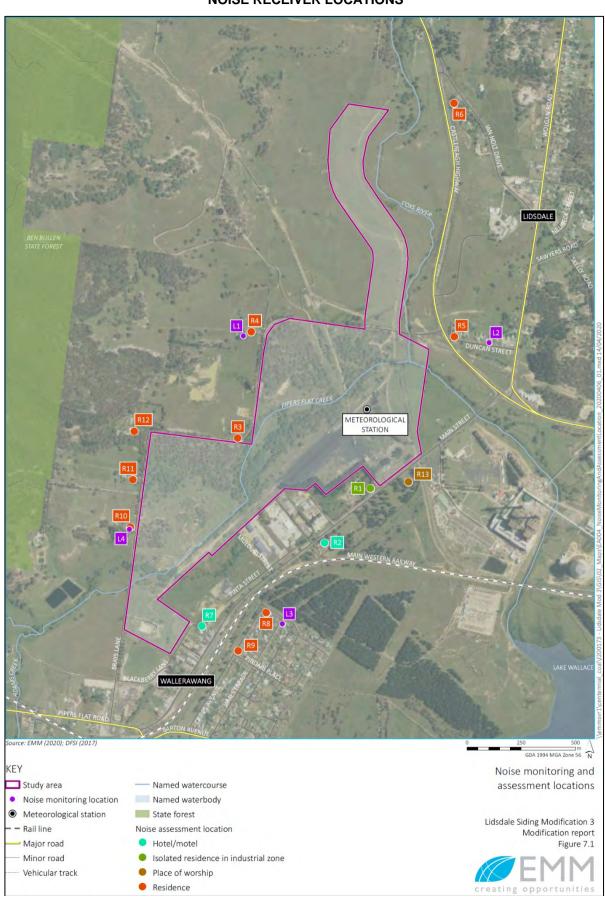
### APPENDIX 1 LIDSDALE SIDING PROJECT LANDS



## APPENDIX 2 PROJECT LAYOUT PLAN



# APPENDIX 3 NOISE RECEIVER LOCATIONS



	Environmental Management Strategy
Appendi	x 3
Carrier and a protect Drote	
<b>Environmental Prote</b>	ection Licences



Licence - 21229

Licence Details	
Number:	21229
Anniversary Date:	17-May

#### **Licensee**

SPRINGVALE COAL PTY LIMITED

LEVEL 18, 1 MARKET STREET

SYDNEY NSW 2000

### **Premises**

WESTERN COAL SERVICES 1613 CASTLEREAGH HIGHWAY

**BLACKMANS FLAT NSW 2790** 

### **Scheduled Activity**

Coal works

Waste disposal (application to land)

Fee Based Activity	<u>Scale</u>
Coal works	> 5000000 T annual handing capacity
Waste disposal by application to land	Any capacity

### Region

Regional South - Bathurst

L102, 346 PANORAMA AVENUE

BATHURST NSW 2795

Phone: (02) 6333 3800

Fax: (02) 6333 3809

PO Box 1388

**BATHURST NSW 2795** 



Licence - 21229

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Lice	ence review
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Pub	olic register and access to monitoring data
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Licence - 21229

## Information about this licence

### **Dictionary**

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

## Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

#### Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

#### **Duration of licence**

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

#### Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

#### Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee: and
- a load-based fee (if applicable).



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The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

#### Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

### Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

#### This licence is issued to:

SPRINGVALE COAL PTY LIMITED

**LEVEL 18, 1 MARKET STREET** 

**SYDNEY NSW 2000** 

subject to the conditions which follow.



Licence - 21229

## 1 Administrative Conditions

## A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Coal works	Coal works	> 5000000 T annual handing capacity
Waste disposal (application to land)	Waste disposal by application to land	Any capacity

### A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
WESTERN COAL SERVICES
1613 CASTLEREAGH HIGHWAY
BLACKMANS FLAT
NSW 2790
WESTERN COAL SERVICES PREMISES AS IDENTIFIED ON PLAN PC7033 DATED 17 APRIL 2019 (EPA DOC19/17254-4).

## A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.



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## 2 Discharges to Air and Water and Applications to Land

## P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below 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.

#### Air

EPA identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
4	Dust deposition		Brays Lane adjacent to LDP002 labelled as DG3 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).
5	Dust deposition		East of Western Coal Services Reject Emplacement Areas (REA's) shown as DG4 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).
6	Dust Deposition		Noon Street Blackmans Flat shown as DG5 in Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).
7	Real time monitoring of PM10.		Noon Street Blackman Flat shown as "Real Time" on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4.

- P1.2 The following utilisation areas referred to in the table below 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.
- P1.3 The following 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.

#### Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to water. Discharge quality monitoring. Discharge volume monitoring.	Discharge to water. Discharge quality monitoring. Discharge volume monitoring.	Drain from the final filter lagoon (sediment basin) to Neubecks Creek labelled as LDP001 (previously licence discharge point LDP006 on EPL 3607) as shown on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).
2	Discharge to waters. Discharge quality monitoring.	Discharge to waters. Discharge quality monitoring.	Duncan Street coal conveyor transfer drain from final filter lagoon (sediment basin) labelled as LDP002 (previously licence discharge point LDP007 on EPL 3607) as shown on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4)



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P1.4 The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises.

#### Noise/Weather

EPA identi- fication no.	Type of monitoring point	Location description
8	Noise monitoring	Residence at Lot 3 DP1026541 Blackmans Flat shown as WNM1 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).
9	Noise monitoring	Residence at Lot 1 DP 666540 shown as WNM2 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).
10	Noise monitoring	Residence at Lot 1 DP963671 Blackmans Flat shown as WNM3 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).
11	Noise monitoring	Residence at Lot 102 DP1096754 Blackmans Flat shown as WNM4 on Plan PC7033 dated 17 April 2019 (EPA DOC19/17254-4).

## 3 Limit Conditions

#### L1 Pollution of waters

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.

#### L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.
- L2.4 Water and/or Land Concentration Limits



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#### **POINT 1,2**

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre				10
рН	рН				6.5 - 8.5
Total suspended solids	milligrams per litre				30
Turbidity	nephelometric turbidity units				50

- L2.5 The concentration limits stipulated by condition L2.4 for EPA identification point 1 and 2 are deemed not to apply when the discharge from the stormwater control structures (sediment dams) occurs solely as a result of rainfall measured at the premises which exceeds:
  - a) a total of 56 millimetres of rainfall over any consecutive 5 day period.
- Note: A 56mm rainfall event is defined by the EPA endorsed publication "Managing urban stormwater: soils and construction" (Landcom 2004; 6-24) as the rainfall depth in millimetres for a 95th percentile 5 day rainfall event for "Lithgow" which is also consistent with the storage capacity (recommended minimum design criteria) for Type D sediment basins for mines and quarries (see "Managing urban stormwater: soils and construction, Volume 2E, mines and quarries" (DECC, 2008).
- L2.6 The concentration limit for total suspended solids stipulated by condition L2.4 for EPA identification point 1 and 2 is deemed not to have been breached where:
  - a) the water discharged is covered by condition L2.5; or
  - b) the water discharged complies with the turbidity limit at the time of the discharge; and
  - c) the EPA is advised within 3 working days of the completion of the sample testing and analysis as required by condition M2.3 of any results above the licence limit.

Note: The purpose of condition L2.6 is to expediate the assessment and subsequent discharge of the clarified water from the stormwater control structures (sediment basins).

### L3 Volume and mass limits

- L3.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of: a) liquids discharged to water; or;
  - b) solids or liquids applied to the area;

must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
-------	-----------------	-------------------



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1 megalitres

#### L4 Waste

L4.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	Filtration residuals	Residuals from primary treatment of mine water from the Springvale Water Treatment Project	Waste disposal (application to land)	Volume accepted must not exceed 0.35 ML/day (annual average) or 0.43 ML/day (daily maximum)

### L5 Noise limits

L5.1 Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column 2.

#### POINT 10

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	LAeq (15 minute)	Quarterly	36
Evening	LAeq (15 minute)	Quarterly	35
Night	LAeq (15 minute)	Quarterly	35
Night	Night-LA1 (1 minute)	Quarterly	45

#### POINT 11

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	LAeq (15 minute)	Quarterly	35
Evening	LAeq (15 minute)	Quarterly	35
Night	LAeq (15 minute)	Quarterly	36

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Night	Night-LA1 (1 minute)	Quarterly	45

#### POINT 8

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	LAeq (15 minute)	Quarterly	40
Evening	LAeq (15 minute)	Quarterly	35
Night	LAeq (15 minute)	Quarterly	35
Night	Night-LA1 (1 minute)	Quarterly	47

#### POINT 9

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	LAeq (15 minute)	Quarterly	41
Evening	LAeq (15 minute)	Quarterly	35
Night	LAeq (15 minute)	Quarterly	35
Night	Night-LA1 (1 minute)	Quarterly	55

Note: LAeq means the equivalent continuous noise level - the level equivalent to the energy average of noise levels occurring over a measurement period.

Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sundays and Public Holidays.

Evening is defined as the period of 6pm to 10pm.

Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am on Sundays and Public Holidays.

- L5.2 The noise emission limits identified in this licence apply under all meteorological conditions except:
  - a) during rain and wind speeds (at 10m height) greater than 3m/s; and
  - b) under "non-significant weather conditions".

Note: Field meteorological indicators for non-significant weather conditions are described in the NSW Industrial Noise Policy, Chapter 5 and Appendix E in relation to wind and temperature inversions.

L5.3 Notwithstanding Condition L4.1, the noise limit specified under that condition does not apply to any sensitive receiver where a noise agreement is in place between the licensee and the respective landowner(s) in relation to noise impacts and/or noise limits.



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### L6 Hours of operation

L6.1 Dozer operations may only occur during the day time periods. Day time is defined under condition L4.1.

### 4 Operating Conditions

### O1 Activities must be carried out in a competent manner

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.

### O2 Maintenance of plant and equipment

- 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.

#### O3 Dust

- O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.
- O3.2 All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.
- O3.3 Trucks entering and leaving the premises that are carrying loads of dust generating materials must have their loads covered at all times, except during loading and unloading.

### O4 Waste management

O4.1 There must be no incineration or burning of any waste at the premises.

### O5 Other operating conditions

- O5.1 The stormwater control structures (sediment dams) identified at condition P1.3 EPA identification points 1 and 2 must be drained or pumped out as necessary to maintain each basins design storage capacity within 5 days following rainfall.
- O5.2 Water discharged to comply with condition O5.1 may only be discharged to waters from those stormwater



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control structures (sediment dams) identified at EPA identification point 1 and 2 where the discharged water complies with the discharge limits stipulated at condition L2.4 (taking into consideration condition L2.5).

O5.3 The licensee must undertake maintenance to desilt all sediment basins to retain their design storage capacities.

### 5 Monitoring and Recording Conditions

### M1 Monitoring records

- 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.
- 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.
- 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.

### M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (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:
- M2.2 Air Monitoring Requirements

#### **POINT 4,5,6**

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

### POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
PM10	micrograms per cubic metre	Continuous	AM-15



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### M2.3 Water and/ or Land Monitoring Requirements

#### POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Monthly during discharge	Representative sample
Iron (dissolved)	milligrams per litre	Monthly during discharge	Grab sample
Manganese (dissolved)	milligrams per litre	Monthly during discharge	Grab sample
Nickel (dissolved)	milligrams per litre	Monthly during discharge	Grab sample
Oil and Grease	milligrams per litre	Monthly during discharge	Grab sample
рН	рН	Monthly during discharge	Representative sample
Total suspended solids	milligrams per litre	Monthly during discharge	Grab sample
Turbidity	nephelometric turbidity units	Monthly during discharge	Representative sample
Zinc (dissolved)	milligrams per litre	Monthly during discharge	Grab sample

#### POINT 2

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Monthly during discharge	Representative sample
Oil and Grease	milligrams per litre	Monthly during discharge	Grab sample
рН	рН	Monthly during discharge	Grab sample
Total suspended solids	milligrams per litre	Monthly during discharge	Grab sample
Turbidity	nephelometric turbidity units	Monthly during discharge	Representative sample

### M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
  - a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
  - b) if no such requirement is imposed by or under the Act, any methodology which a condition of this



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licence requires to be used for that testing; or

- 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.
- Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".
- M3.2 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 in writing before any tests are conducted.

### M4 Recording of pollution complaints

- 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.
- M4.2 The record must include details of the following:
  - a) the date and time of the complaint;
  - b) the method by which the complaint was made;
  - 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;
  - d) the nature of the complaint;
  - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
  - f) if no action was taken by the licensee, the reasons why no action was taken.
- M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

### M5 Telephone complaints line

- 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.
- 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.
- M5.3 The preceding two conditions do not apply until 3 months after the date of the issue of this licence.

### M6 Requirement to monitor volume or mass



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- M6.1 For each discharge point or utilisation area specified below, the licensee must monitor:
  - a) the volume of liquids discharged to water or applied to the area;
  - b) the mass of solids applied to the area;
  - c) the mass of pollutants emitted to the air;
  - at the frequency and using the method and units of measure, specified below.

#### POINT 1

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	megalitres per day	In line instrumentation

### M7 Noise monitoring

M7.1 To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below.

### POINT 8,9,10,11

Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period
Day, Evening, Night	Special Frequency 1	15 minutes	1 operation day

Note: For the purpose of M7.1, Special Frequency 1 means undertake noise monitoring once a year and in response to any complaint made to the licensee. Where monitoring is in response to a complaint made to the licensee, the noise monitoring need only cover the assessment period(s) for which the complaint is referring.

### 6 Reporting Conditions

#### R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
  - 1. a Statement of Compliance,
  - 2. a Monitoring and Complaints Summary,
  - 3. a Statement of Compliance Licence Conditions,
  - 4. a Statement of Compliance Load based Fee,
  - 5. a Statement of Compliance Requirement to Prepare Pollution Incident Response Management Plan,
  - 6. a Statement of Compliance Requirement to Publish Pollution Monitoring Data; and
  - 7. a Statement of Compliance Environmental Management Systems and Practices.



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At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- 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.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
  - 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
  - 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.
- Note: An application to transfer a licence must be made in the approved form for this purpose.
- R1.4 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:
  - a) in relation to the surrender of a licence the date when notice in writing of approval of the surrender is given; or
  - b) in relation to the revocation of the licence the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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 days after the date the transfer was granted (the 'due date').
- R1.6 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 due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statements 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.

#### R2 Notification of environmental harm

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.
- 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.



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### R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
  - a) where this licence applies to premises, an event has occurred at the premises; or
  - 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.
- R3.2 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.
- R3.3 The request may require a report which includes any or all of the following information:
  - a) the cause, time and duration of the event;
  - b) the type, volume and concentration of every pollutant discharged as a result of the event;
  - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
  - 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;
  - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants:
  - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
  - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is 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.

### 7 General Conditions

### G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

### 8 Pollution Studies and Reduction Programs

### U1 Cessation of Cooks Dam discharge to Neubecks Creek

U1.1 By 31 January 2021, the licensee must lodge a Preferred Project Plan to the EPA detailing the preferred



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option for managing water currently discharged through LDP001.

### Dictionary

### **General Dictionary**

3DGM [in relation
to a concentration
limit]

Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples

Act Means the Protection of the Environment Operations Act 1997

activity Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment

Operations Act 1997

actual load Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

AM Together with a number, means an ambient air monitoring method of that number prescribed by the

Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.

AMG Australian Map Grid

anniversary date The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a

licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the

commencement of the Act.

annual return Is defined in R1.1

Approved Methods Publication Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

assessable pollutants

Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

BOD Means biochemical oxygen demand

CEM Together with a number, means a continuous emission monitoring method of that number prescribed by

the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.

COD Means chemical oxygen demand

composite sample Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples

collected at hourly intervals and each having an equivalent volume.

cond. Means conductivity

**environment** Has the same meaning as in the Protection of the Environment Operations Act 1997

environment protection legislation

Has the same meaning as in the Protection of the Environment Administration Act 1991

**EPA** Means Environment Protection Authority of New South Wales.

fee-based activity Means (General Control of the Co

Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.

general solid waste (non-putrescible)

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act



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flow weighted
composite sample

Means a sample whose composites are sized in proportion to the flow at each composites time of collection

general solid waste (putrescible)

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environmen t Operations Act

199

grab sample

Means a single sample taken at a point at a single time

hazardous waste

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

1997

licensee

Means the licence holder described at the front of this licence

load calculation protocol

Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

local authority

Has the same meaning as in the Protection of the Environment Operations Act 1997

material harm

Has the same meaning as in section 147 Protection of the Environment Operations Act 1997

MBAS

Means methylene blue active substances

Minister

Means the Minister administering the Protection of the Environment Operations Act 1997

mobile plant

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

1997

motor vehicle

Has the same meaning as in the Protection of the Environment Operations Act 1997

O&G

Means oil and grease

percentile [in relation to a concentration limit of a sample] Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.

plant

Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles

pollution of waters [or water pollution]

Has the same meaning as in the Protection of the Environment Operations Act 1997

[or water policitors]

Means the premises described in condition A2.1

public authority

premises

Has the same meaning as in the Protection of the Environment Operations Act 1997

regional office

Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence

reporting period

For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.

restricted solid waste

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

scheduled activity

Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997

special waste

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

TM

Together with a number, means a test method of that number prescribed by the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales*.



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Means total suspended particles TSP Means total suspended solids TSS Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or Type 1 substance

more of those elements

Type 2 substance Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any

compound containing one or more of those elements

utilisation area Means any area shown as a utilisation area on a map submitted with the application for this licence

waste Has the same meaning as in the Protection of the Environment Operations Act 1997

waste type Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-

putrescible), special waste or hazardous waste

Mr Darryl Clift

**Environment Protection Authority** 

(By Delegation)

Date of this edition: 17-May-2019

### **End Notes**

2 Licence varied by notice 1587489 issued on 04-Nov-2019

**Environment Protection Authority - NSW** Licence version date: 18-Dec-2020





<u>Licence Details</u>	
Number:	5129
Anniversary Date:	16-July

Licensee

IVANHOE COAL PTY LIMITED

**PO BOX 198** 

WALLERAWANG NSW 2845

Premises

LIDSDALE COAL LOADING FACILITY

MAIN STREET

WALLERAWANG NSW 2845

**Scheduled Activity** 

Coal works

Fee Based Activity	<u>Scale</u>
Coal works	> 2000000-5000000 T annual
	handing capacity

Region
Central West
L102, 346 PANORAMA AVENUE
BATHURST NSW 2795
Phone: (02) 6333 3800
Fax: (02) 6333 3809
PO Box 1388
BATHURST NSW 2795



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### Information about this licence

### **Dictionary**

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

### Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

### Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

#### **Duration of licence**

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

#### Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

#### Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

#### Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

#### Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

#### This licence is issued to:

IVANHOE COAL PTY LIMITED
PO BOX 198
WALLERAWANG NSW 2845

subject to the conditions which follow.

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### 1 Administrative Conditions

### A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Coal works	Coal works	> 2000000 - 5000000 T
		annual handing capacity

### A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
LIDSDALE COAL LOADING FACILITY
MAIN STREET
WALLERAWANG
NSW 2845
LOT 1 DP 252472, LOT 2 DP 252472, LOT 7 DP 252472, LOT 9 DP 252472, LOT 1 DP 776498, LOT 13 DP 827839

### A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.
- A3.2 All works and activities must be undertaken in accordance with the project approval for Application Number 08\_0223 as issued by the Planning and Assessment Commission, on behalf of the Minister for Planning and Infrastructure, on 3 May 2013. The conditions in this project approval take precedent over any information previously supplied to the EPA as part of the licence application in the event of a discrepancy.

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# 2 Discharges to Air and Water and Applications to Land

### P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below 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.

	•
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EPA identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Dust monitoring		Labelled as 'DG7' on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).
2	Dust Monitoring		Labelled as 'DG6' on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).
3	Dust Monitoring		Labelled as 'DG8' on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).
5	Dust monitoring		Labelled as 'DG1' on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).
6	Dust monitoring		Labelled as 'DG9' on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).
7	Dust monitoring		Labelled as 'DG10' on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).
8	Dust Monitoring		PM10 monitoring - labelled as 'BAM' on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).
9	Meteorological monitoring		Labelled as 'AWS' on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).

- P1.2 The following utilisation areas referred to in the table below 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.
- P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring

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and/or the setting of limits for discharges of pollutants to water from the point.

#### Water and land

EPA Identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
4	Discharge to waters Discharge quality monitoring	Discharge to waters Discharge quality monitoring	Confluence of stormwater discharge channel and Coxs River labelled as LDP4 on figure in Plan "No.4 - Proposed Mining Activities Environmental Monitoring Locations" dated 21 February 2019. (DOC19/671011).

### 3 Limit Conditions

#### L1 Pollution of waters

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.

#### L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.
- L2.4 Water and/or Land Concentration Limits

#### **POINT 4**

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre				10





рН	_	6.5-8.5
Total suspended solids	milligrams per litre	30

- L2.5 The limits specified under Condition L2.4 for the sediment basin identified as EPA licence discharge point 4 do not apply when the discharge occurs soley as a result of rainfall measured at the premises which exceeds:
  - a total of 56 millimetre of rainfall over any consecutive 5 day period.

Note: A 56 mm rainfall depth is defined by the publication "Managing Urban Stormwater: Soils and Construction" (Landcom 2006) as the rainfall depth in millimetres for a 95th percentile 5 day rainfall event for the Sydney/Blue Mountains (Lithgow) area consistent with the storage capacity (recommended minimum design criteria) for Type D sediment retention basins for mines and quarries (Vol 2E of Landcom 2008).

#### L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under clause 51A of the Protection of the Environment Operations (Waste) Regulation 2005	As specified in each particular resource recovery exemption	NA

#### L4 Noise limits

L4.1 Noise generated at the premises must not exceed the noise limits presented in the table below.

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Location	Day	Evening	Night	Night
	LAeq(15 minute)	LAeq(15 minute)	LAeq(15 minute)	LA1(1 minute)
Lot 2 Main St,     Wallerawang	50	50	50	55
Black Gold     Cabins, Main St     Wallerawang	46	46	46	49
3. "Killarney", Brays Lane, Wallerawang	47	47	47	56
4. "Fairview", Brays Lane, Wallerawang	43	43	43	54
5. Duncan Street, Lidsddale	46	46	46	57
6. Old Castlereagh Highway, Lidsdale	43	43	43	56
7. Royal Hotel, Main St, Wallerawang	41	41	41	49
8. Corner Heel St & Cripps Ave, Wallerawang	40	40	40	45
<ol> <li>Corner of Cripps Ave &amp; Pindari Place, Wallerawang</li> </ol>	39	39	39	45
10. Brays Lane South, Wallerawang	45	45	45	50
11. "Tara", Brays Lane, Wallerawang	45	45	45	51
12. Brays Lane Corner, Wallerawang	43	43	43	51

Note: The above noise limits do not apply at properties where the licensee has a writen agreement with the landowner to exceed the noise limits.

- L4.2 For the purpose of condition L4.1;
  - Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sunday and Public Holidays.
  - Evening is defined as the period 6pm to 10pm.
  - Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sunday and Public Holidays.
- L4.3 The noise limits set out in condition L4.1 apply under all meteorological conditions except for the following:

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- a) During periods of rain or hail;
- b) Average wind speeds at microphone height exceeds 5 metres/second;
- c) Wind speeds greater than 3 metres/second at 10 metres above ground level; or
- d) Temperature inversion conditions greater than 3 degrees C/100 m.
- L4.4 For the purpose of condition L4.3, the meteorological data to be used for determining meteorological conditions is the data recorded by the meteorological weather station identified as EPA identification Point 9 in condition P1.1.
- L4.5 To determine compliance:
  - a) With the Leq(15 minute) noise limits in condition L4.1, the noise measurement equipment must be located:
    - i) approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or
    - ii) within 30 metres of a dwelling façade, but not closer than 3 metres where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises.
  - b) With the LA1(1 minute) noise limits in condition L4.1, the noise measurement equipment must be located within 1 metre of a dwelling façade.
  - c) With the noise limits in condition L4.1, the noise measurement equipment must be located:
    - i) at the most affected point at a location where there is no dwelling at the location; or
    - ii) at the most affected point within an area at a location prescribed by conditions L4.5(a) or L4.5(b).
- L4.6 A non-compliance of condition L4.1 will still occur where noise generated from the premises in excess of the appropriate limit is measured:
  - a) at a location other than an area prescribed by conditions L4.5(a) and L4.5(b); and/or
  - b) at a point other than the most affected point at a location.
- L4.7 For the purpose of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

### 4 Operating Conditions

- O1 Activities must be carried out in a competent manner
- 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

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b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

### O2 Maintenance of plant and equipment

- 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.

#### O3 Dust

- O3.1 All areas in or on the premises must be maintained in a condition that prevents or minimises the emission into the air of air pollutants (which includes dust).
- O3.2 Any activity in or on the premises must be carried out by such practicable means as to prevent or minimise the emission into the air of air pollutants (which includes dust).
- O3.3 Any plant in or on the premises must be operated by such practicable means as to prevent or minimise the emission into the air or air pollutants (which includes dust).

### O4 Other operating conditions

- O4.1 The sediment basin identified as EPA identification no. (licence discharge point) 4 under condition P1.3 must be drained or pumped out within 5 days following rainfall in order to maintain the design storage capacity of the basin.
- O4.2 Water discharged to comply with condition O4.1 may only be discharged from sediment basins to waters via licence discharge point 4 where the water complies with the discharge limit specified under condition L2.4 for licence discharge point 4.
- O4.3 The licensee must undertake maintenance to desilt all sediment basins to retain their design storage capacities.

### 5 Monitoring and Recording Conditions

### M1 Monitoring records

- 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.
- 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.

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- 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.

### M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (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:
- M2.2 Air Monitoring Requirements

#### POINT 1,2,3,5,6,7

Pollutant	Units of measure	Frequency	Sampling Method
Particulate matter	grams per square metre per month	Monthly	Australian Standard 3580.10.1-2003

#### POINT 8

Pollutant	Units of measure	Frequency	Sampling Method
PM10	milligrams per cubic metre	Continuous	Australian Standard 3580.9.11 - 2008

### M2.3 Water and/ or Land Monitoring Requirements

#### POINT 4

Pollutant	Units of measure	Frequency	Sampling Method
Conductivity	microsiemens per centimetre	Monthly during discharge	Probe
Oil and Grease	milligrams per litre	Monthly during discharge	Grab sample
рН	-	Monthly during discharge	Grab sample
Total suspended solids	milligrams per litre	Monthly during discharge	Grab sample

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### M3 Testing methods - concentration limits

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
  - a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
  - 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
  - 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.
- Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".
- M3.2 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 in writing before any tests are conducted.

#### M4 Weather monitoring

- M4.1 The meteorological weather station must be maintained so as to be capable of continuously monitoring the parameters specified in condition M4.2.
- M4.2 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 specified opposite in the other columns.

Point 9

Parameter	Unit of Measure	Freuency	Averaging Period	Sampling Method
Air temperature	Degrees celsius	Continuous	1 hour	Sampling Method
Wind direction	Degrees	Continuous	15 minute	AM-2 & AM-4
Wind speed	Metres per second	Continuous	15 minute	AM-2 & AM-4
Temperature lapse rate	Degrees	Continuous	15 minute	Part E2 & E4 of the NSW Industrial Noise Policy
Rainfall	Millimetres	Continuous	24 hour	AM-4

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Relative humidity Percent Continuous 1 hour AM-4

### M5 Recording of pollution complaints

- M5.1 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.
- M5.2 The record must include details of the following:
  - a) the date and time of the complaint;
  - b) the method by which the complaint was made;
  - 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;
  - d) the nature of the complaint;
  - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
  - f) if no action was taken by the licensee, the reasons why no action was taken.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

### M6 Telephone complaints line

- M6.1 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.
- M6.2 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.
- M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

### 6 Reporting Conditions

#### R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
  - 1. a Statement of Compliance,
  - 2. a Monitoring and Complaints Summary,
  - 3. a Statement of Compliance Licence Conditions,
  - 4. a Statement of Compliance Load based Fee,
  - 5. a Statement of Compliance Requirement to Prepare Pollution Incident Response Management Plan,
  - 6. a Statement of Compliance Requirement to Publish Pollution Monitoring Data; and

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7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- 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.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
  - 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
  - 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.

Note: An application to transfer a licence must be made in the approved form for this purpose.

- R1.4 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:
  - a) in relation to the surrender of a licence the date when notice in writing of approval of the surrender is given; or
  - b) in relation to the revocation of the licence the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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 days after the date the transfer was granted (the 'due date').
- R1.6 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 due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statements 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.

### R2 Notification of environmental harm

- Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.
- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which

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the incident occurred.

### R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
  - a) where this licence applies to premises, an event has occurred at the premises; or
  - 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.
- R3.2 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.
- R3.3 The request may require a report which includes any or all of the following information:
  - a) the cause, time and duration of the event;
  - b) the type, volume and concentration of every pollutant discharged as a result of the event;
  - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
  - 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;
  - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
  - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
  - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is 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.

### 7 General Conditions

### G1 Copy of licence kept at the premises or plant

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

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### Dictionary

#### **General Dictionary**

3DGM [in relation
to a concentration
limit]

Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples

Act Means the Protection of the Environment Operations Act 1997

activity Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment

Operations Act 1997

actual load Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

AM Together with a number, means an ambient air monitoring method of that number prescribed by the

Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.

AMG Australian Map Grid

**anniversary date** The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a

licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the

commencement of the Act.

annual return Is defined in R1.1

Approved Methods Publication

Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

assessable pollutants

Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

BOD Means biochemical oxygen demand

CEM Together with a number, means a continuous emission monitoring method of that number prescribed by

the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.

COD Means chemical oxygen demand

composite sample Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples

collected at hourly intervals and each having an equivalent volume.

cond. Means conductivity

environment Has the same meaning as in the Protection of the Environment Operations Act 1997

environment protection legislation

Has the same meaning as in the Protection of the Environment Administration Act 1991

**EPA** Means Environment Protection Authority of New South Wales.

fee-based activity Mcclassification (G

Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations

lassification (General) Regulation 2009.

**general solid waste**(non-putrescible)

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

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flow weighted composite sample

Means a sample whose composites are sized in proportion to the flow at each composites time of collection

general solid waste (putrescible)

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environmen t Operations Act

1997

grab sample Means a

Means a single sample taken at a point at a single time

hazardous waste

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations  $\operatorname{\mathsf{Act}}$ 

1997

licensee

Means the licence holder described at the front of this licence

load calculation protocol

Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009

local authority

Has the same meaning as in the Protection of the Environment Operations  $\mathop{\rm Act}\nolimits$  1997

material harm

Has the same meaning as in section 147 Protection of the Environment Operations Act 1997

MBAS

Means methylene blue active substances

Minister

Means the Minister administering the Protection of the Environment Operations Act 1997

mobile plant

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

1997

motor vehicle

Has the same meaning as in the Protection of the Environment Operations Act 1997

O&G

Means oil and grease

percentile [in relation to a concentration limit of a sample] Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.

plant

Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.

pollution of waters [or water pollution]

Has the same meaning as in the Protection of the Environment Operations Act 1997

Lor mator ponument

Means the premises described in condition A2.1

public authority

premises

Has the same meaning as in the Protection of the Environment Operations Act 1997

regional office

Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence

reporting period

For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.

restricted solid waste

ste 1

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act

1997

scheduled activity

Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997

special waste

Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

TM

Together with a number, means a test method of that number prescribed by the *Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales*.

Licence - 5129



TSP Means total suspended particles

TSS Means total suspended solids

Type 1 substance

Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements.

more of those elements

Type 2 substance Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any

compound containing one or more of those elements

utilisation area Means any area shown as a utilisation area on a map submitted with the application for this licence

waste Has the same meaning as in the Protection of the Environment Operations Act 1997

waste type Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non -

putrescible), special waste or hazardous waste

Mr Mitchell Bennett

**Environment Protection Authority** 

(By Delegation)

Date of this edition: 09-May-2000

Licence - 5129



#### **End Notes**

- 1 Licence varied by notice 1004572, issued on 02-Aug-2001, which came into effect on 27-Aug-2001.
- 2 Licence transferred through application 143331, approved on 29-Mar-2005, which came into effect on 10-Mar-2005.
- 3 Licence varied by notice 1048948, issued on 02-Aug-2005, which came into effect on 27-Aug-2005.
- 4 Licence varied by notice 1075782, issued on 11-Jul-2007, which came into effect on 11-Jul-2007.
- 5 Licence varied by repair to Annual Return Archive, issued on 17-Jul-2007, which came into effect on 17-Jul-2007.
- 6 Licence varied by notice 1076460, issued on 06-Aug-2007, which came into effect on 06-Aug-2007.
- 7 Licence varied by notice 1083255, issued on 27-Feb-2008, which came into effect on 27-Feb-2008.
- 8 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 9 Licence varied by notice 1505197 issued on 09-Aug-2012
- 10 Licence varied by notice 1522211 issued on 11-Aug-2014
- 11 Licence varied by notice 1587545 issued on 18-Nov-2019

	Environmental Management Strategy
	-
Appendix	1
Appendix	7
	'4 B II
<b>Environment and Com</b>	munity Policy



# **Environment and Community Policy**

### **Objectives**

To conduct our business in an efficient and environmentally responsible manner; compatible with the expectations of our shareholders, government, employees and the community.

### **Beliefs**

- We all have a responsibility for minimising impact to the environment.
- Environmental performance can always be improved.
- Respecting our stakeholders is essential to business success.

### **Strategy**

This objective will be achieved by:

- Implementation of appropriate risk management strategies to manage environmental responsibilities.
- Developing and maintaining relationships with all stakeholders through meaningful consultation and engagement.
- Greater integration of environmental and sustainability management into our business.
- Efficient use of natural resources.

Craig Gillard Managing Director & CEO



	Environmental Management Strategy
Appendix	<b>.</b> 5
SCSO Environmental D	iak Assasamant
SCSO Environmental R	isk Assessifietil

#### Centennial Coal Ltd Springvale Coal Services Operations Environmental risk register

						Inherent Risk			Residual Risk
Activity	Risk Scenario	Control Measures	Document Reference	Likelihood	Consequence	Rating	Likelihood2	Consequence2	Rating
Aboriginal Cultural Heritage	Damage or disturbance to sites or items of Aboriginal cultural heritage	* WR Cultural Heritage Management Plan     * Consultation with Aboriginal stakeholders     * Buffers around potentially impacted AHIMS sites     * Site induction process     * Land disturbance management system	Western Coal Services Project EIS Western Region Aboriginal Cultural Heritage Management Plan	В	3	High	D	3	Moderate
Agriculture	Adverse impacts on neighbouring agricultural and forestry activities	* Regular inspection regime * Land disturbance management system * Restricted access to site * Centennial ownership and agistment of land adjacent to OL2 and OL1 project areas	Western Coal Services Project EIS	С	5	Low	D	5	Low
Air quality	Dust emissions from site causing impact to human health and the environment	* Sprinkler system in operation at coal stockpiles and and coal transfer points  * Dust monitoring and approved dust criteria  * WRAQGMP  * Scheduled water cart based on operations at site  * Coal stored in designated stockpiles  * Progressive rehabilitation and revegetation of disturbed areas  * Ongoing real time monitoring  * Majority of coal reclaimed from stockpiles via reclaim tunnels  * Enclosure of conveyor transfer points and other infrastructure  * Traffic management system (designated speed limits)  * Aquisition of potentially impacted properties  * WHS management and monitoring controls  * Proactive air quality management utilising meteorological and air quality modelling (daily dust generation and risk forecast process)  * Automated train load out process	Western Region Air Quality and Greenhose Gas Managament Plan EPL 21229 and EPL 5129 Project Approval PA 08_0223 Development Consent SSD-5579	В	4	Significant	D	4	Low
Air quality	Smoke (due to onsite fire) causing impact to human health and the environment	* Bushfire Management Plan  * Firebreaks surrounding main washery and processing area  * Inspection and maintenance program for firebreaks  * Fire suppresssion systems on critical infrastructure  * Fire extinguishers located at strategic points and equipment on site  * Fire extinguishers meet the requirements of AS1841 and AS1851  * Periodic inspection and maintenance of fire fighting equipment  * Maintain SDSs on site  * Maintain of fire fighting trailer  * Maintain water carts on site  * Fire/smoke detection systems in site buildings  * Emergency response and evacuation procedures	SCSO Bushfire Management Plan SCSO Emergency Response Management Plan	С	4	Moderate	D	4	Low

Aquatic Ecology	Reduction in water quality in local streams impacts on aquatic species	Implement erosion and sediment controls     Separation of clean and dirty water     Monitoring of water quality     Monitoring of aquatic ecology     WRWMP     Aquatic ecology monitoring program     RCHIP - riparian catchment habitat improvement plan     Water discharges in compliance with EPL concentration	Western Coal Services Water Management Plan Lidsdale Siding Water Management Plan Western Region Biodiversity Management Plan Upper Coxs River Action Management Plan Riparian Habitat Catchment Improvement Plan	В	3	High	D	4	Low
Aquatic Ecology	Earthworks in existing waterways damaging habitat for aquatic species	Implement erosion and sediment controls Separation of clean and dirty water Monitoring of water quality Monitoring of aquatic ecology WRWMP Aquatic ecology monitoring program RCHIP - riparian catchment habitat improvement plan Water discharges in compliance with EPL concentration	Western Coal Services Water Management Plan Lidsdale Siding Water Management Plan Western Region Biodiversity Management Plan Upper Coxs River Action Management Plan Riparian Habitat Catchment Improvement Plan	В	3	High	E	4	Low
Historic Heritage	Damage or disturbance to sites or items of European cultural heritage	* Buffers around potentially impacted heritage sites     * Site induction process     * Land disturbance management system     * Multiwork permit	Western Region Historic Heritage Management Plan	В	3	High	D	3	Moderate
Fire	Fire generated from site activities impacting offsite	* Bushfire Management Plan  * Firebreaks surrounding main washery and processing area  * Inspection and maintenance program for firebreaks  * Fire suppresssion systems on critical infrastructure  * Fire extinguishers located at strategic points and equipment on site  * Fire extinguishers meet the requirements of AS1841 and AS1851  * Periodic inspection and maintenance of fire fighting equipment  * Maintain SDSs on site  * Maintaini sDSs on site  * Maintain water carts on site  * Fire/smoke detection systems in site buildings  * Emergency response procedures	SCSO Bushfire Management Plan SCSO Emergency Response Management Plan	В	3	High	E	3	Low
Greenhouse Emissions	Excessive emissions of greenhouse gases to the atmosphere, contributing to climate change	* Maximising energy efficiency * Implementing Energy & Greenhouse Management System * Preventative maintenance of fixed and mobile plant * Consider energy efficiency in procurement of plant and equipment * Greenhouse emission offsets * WRAQGGMP * Minimise handling of materials	Western Region Air Quality and Greenhose Gas Managament Plan Project Approval PA 08_0223 Development Consent SSD-5579	E	4	Low	E	4	Low

Groundwater	Contamination of groundwater causing impact	* Housekeeping standards	Western Coal Services Water Management Plan						
	to human health and the environment	* Routine maintenance and repair of machinery and plant undertaken  * Storage of chemicals/fuels in accordance with AS  * Emergency spill kits located in workshop  * Emergency procedures in place to control spills of hydrocarbons and other liquid chemicals  * Incident Reporting Procedure  * Routine surface and groundwater monitoring  * Training and awareness on use of spill kits  * WRWMP  * Groundwater trigger criteria  * Clean and dirty water diversion  Designated vehicle parking  * Designated refuelling areas and processes on site  * Recycling of impacted water for reuse  * EMP for former diesel storage area contamination spill	Lidsdale Siding Water Management Plan Lidsdale Siding Environmental Management Plan (Groundwater Contamination)	c	3	Significant	D	3	Moderate
Groundwater	Depletion of groundwater resource (interception of groundwater)	Groundwater level and quality telemetry system     Preferential surface water utilisation     Routine Groundwater monitoring	Western Coal Services Water Management Plan Lidsdale Siding Water Management Plan	С	4	Moderate	E	4	Low
		* WRWMP		, and the second		Moderate	-	·	20.11
Lighting	Light emmisions from site causing impact to human health and the environment	Water access licences     Lighting standard audit     Installation of lighting to meet AS for light spill     Tree buffers to screen light from sensitive receivers	Lidsdale Siding EA Western Coal Services Project EIS			#N/A			#N/A
Noise and vibration	Noise emissions from site causing impact to the environment, human health and amenity	* Operating hours and activities as approved by consent conditions * WRMMP * Regular, periodic, targeted and real-time noise monitoring *Construction and procurement of new infrastructure to include noise mitigation measures specified in EIS * Proactive noise management utilising meteorological inversion modelling (daily noise meteorological forecast process) * Modifications to project approvals where noise issues are identified as chronic * Noise mitigation of heavy equipment and plant	Western Coal Services Project EIS Lidsdale Siding EA Western Region Noise Management Plan	А	4	Significant	C	4	Moderate
Rehabilitation	Failure of rehabilitated areas to meet closure criteria	* Approved and current MOP for operations that includes:		А	2	Extreme	D	4	Low

Rehabilitation	Harm to the environment caused by poor rehabilitation practices	* Approved and current MOP for operations * Works completed in accordance with MOP * Rehabilitation monitoring program	Western Coal Services Project EIS Lidsdale Siding EA Western Coal Services Mining Operations Plan Lidsdale Siding Rehabilitation and Closure Plan	В	3	High	D	4	Low
Rehabilitation	Insufficient or inadequate material to rehabilitate areas to closure criteria	* Approved and current MOP for operations * Retention and stockpiling of rehabilitation materials from operational processes * Land disturbance management system * Bulk material handling studies in place * Nominated and designated material stockpiles	Western Coal Services Project EIS Lidsdale Siding EA Western Coal Services Mining Operations Plan Lidsdale Siding Rehabilitation and Closure Plan	В	2	Extreme	D	4	Low
Reject Management	Harm to the environment from inadequate management of reject material streams	Tailings and coarse reject disposal strategy Approved and current MOP High Risk Activity Approvals Detailed Engineering Design Management Plans and Inspections Rehabilitation capping strategy	Western Coal Services Project EIS Reject Emplacement Area Mangement Plan	В	2	Extreme	D	4	Low
Surface water	Discharge during heavy rainfall causing erosion and sedimentation causing impact to human health and the environment	* Erosion and sediment control structures  * Revegetation and rehabilitation of disused areas of site  * Water quality monitoring in accordance with EPL, Project Approval  * WRWMP  * Separation of clean and dirty water  * On site containment  * Regular inspections of site controls and structures  * RCHIP - riparian catchment habitat improvement plan  * Housekeeping standards  * Routine maintenance and repair of machinery and plant  * Emergency spill kits located on site  * Emergency procedures in place to control spills of hydrocarbons and other liquid chemicals  * Incident Reporting Procedure  * Routine surface water monitoring  * Training and awareness on use of spill kits  * Maximising re-use of dirty water/mine-impacted water for dust suppression and in the washery  * Sewage System on site  * Maintain liquid hydrocarbon waste infrastructure at site workshop	Western Coal Services Project EIS Lidsdale Siding EA Western Coal Services Water Management Plan Lidsdale Siding Water Management Plan SCSO Emergency Response Management Plan	В	3	High	D	4	Low
Surface water	Overflow of site sumps that results in impact to the environment	* Checking level of sumps and traps during inspections * WRWMP  * Regular servicing of mobile and fixed plant * On site water containment * Program of regular sump dewatering and maintenance * Sewage System on site * Management of water levels in onsite storages to avoid overtopping	Western Coal Services Water Management Plan Lidsdale Siding Water Management Plan	В	3	High	D	4	Low

		1.	1	1	1			1	
Surface water	Discharge of site water that exceeds licensed	* Monitoring water quality	Western Coal Services Water Management Plan						
	water quality limits	* Maintain onsite water storages for containment and	Lidsdale Siding Water Management Plan						
		passive treatment							
		* Maximise reuse of dirty water onsite							
		* WRWMP							
		* Use of liquid waste contractor to remove sewage from site							
		ablutions							
		* Licensed, controlled discharge point			2	100 mln		4	Low
		* Separation of clean and dirty water		В	3	High	D	4	Low
		* Automated monitoring alarm system							
		* Maximising re-use of dirty water/mine-impacted water for							
		dust suppression and in the washery							
		* RCHIP - riparian catchment habitat improvement plan							
		* Sewage System on site							
		* Management of water levels in onsite storages to avoid							
		overtopping							
Surface water	Flooding of the site resulting in unauthorised	* Maintain Levee banks surrounding water structures	Western Coal Services Water Management Plan						
Surface Water	discharge of contaminant laden water	* Maintain onsite water storages for containment and	Lidsdale Siding Water Management Plan						
	discharge of contaminant laden water	passive treatment	Lidsdale Siding Flood Management Plan						
		* Monitor water quality	EPL 21229 and EPL 5129						
			EPL 21229 dilu EPL 5129						
		* Discharge of water through LDP001 and LDP002 in accordance with EPL							
		* WRWMP		С	3	Significant	E	3	Low
		* Linked water management structures, pipelines and							
		pumping infrastructure							
		* Maximising re-use of dirty water/mine-impacted water for							
		dust suppression and in the washery							
		* RCHIP - riparian catchment habitat improvement plan							
		* Management of water levels in onsite storages to avoid							
		overtopping							
Surface water	Contamination of site water through spills of	* Housekeeping standards	Western Coal Services Water Management Plan						
	fuels or chemicals	* Routine maintenance and repair of machinery and plant	Lidsdale Siding Water Management Plan						
		* Emergency spill kits located on site							
		* Emergency procedures in place to control spills of							
		hydrocarbons and other liquid chemicals							
		* Incident Reporting Procedure							
		* Routine surface water monitoring							
		* Training and awareness on use of spill kits							
		* WRWMP							
		* Separation of clean and dirty water		С	4	Moderate	D	4	Low
		* On site containment							
		* Regular inspections of site controls and structures							
		* Maximising re-use of dirty water/mine-impacted water for							
		dust suppression and in the washery							
		* Sewage System on site							
		* Management of water levels in onsite storages to avoid							
		overtopping							
ĺ		* Maintain liquid hydrocarbon waste infrastructure at site							
		workshop							
Surface water	Seepage from site dirty water storages	* Seepage collection systems	Western Coal Services Water Management Plan						
		* Regular inspections of site controls and structures	Lidsdale Siding Water Management Plan						
		* Routine water structure surveys and reporting							
		* Hazardous dam annual inspection process							
		* Periodic water quality monitoring		Α	3	High	В	5	Moderate
		* Maximising re-use of dirty water/mine-impacted water for							
		dust suppression and in the washery							
		* Management of water levels in onsite storages to avoid							
		overtopping							
	•		•	•	•				

Confession	Sediment buildup in site water storages leading	* Regular inspections of site controls and structures	Mantage Cool Comittee Management Blog						
Surface water			Western Coal Services Water Management Plan						
	to reduction in capacity	* Routine water structure surveys and reporting	Lidsdale Siding Water Management Plan						
		* Hazardous dam annual inspection process							
		* Periodic water quality monitoring		В	4	Significant	D	4	Low
		* Periodic sediment removal and maintenance to water							
		structures							
		* Management of water levels in onsite storages to avoid							
		overtopping							
Terrestrial Ecology	Clearing of native vegetation resulting in habitat	* Regional Biodiversity Management Plan	Western Region Biodiversity Management Plan						
	loss	* Minimise clearing of vegetation							
		* Implement erosion and sediment controls		В	3	High	E	4	Low
		* Land disturbance management system				Ü			
		* Approved and current MOP							
		* RCHIP - riparian catchment habitat improvement plan							
Terrestrial Ecology	Infestation of weeds from neighbouring	* Regional Biodiversity Management Plan	Western Region Biodiversity Management Plan						
	properties	* Minimise clearing of vegetation							
		* Monitoring and treatment of weed infestations							
		* Land disturbance management system		В	4	Significant	Е	4	Low
		* Approved and current MOP				Ü			
		* Segregation and stockpiling of materials							
		* Rehabilitation monitoring program							
		* RCHIP - riparian catchment habitat improvement plan							
Terrestrial Ecology	Loss of habitat connectivity as a result of site	* Regional Biodiversity Management Plan	Western Region Biodiversity Management Plan						
	operations	* Minimise clearing of vegetation							
		* Monitoring and treatment of weed infestations							
		* Use of locally indigenous species in site rehabilitation		В	3	High	D	4	Low
		* Land disturbance management system			, and the second			•	
		* Approved and current MOP							
		* Rehabilitation monitoring program							
		* RCHIP - riparian catchment habitat improvement plan							
Traffic and Transport	Trains blocking Main St and disrupting local	* Adequate siding length to load trains on site	Lidsdale Siding EA	С	5	Low	E	5	Low
	traffic	* Controlled rail crossing		ŭ	, ,	20.11	-	J	2011
Visual Amenity	Reduction in visual amenity of the area as a	* Use of non-reflective and neutral-toned materials	Western Coal Services Project EIS						
	result of operations at WCS	* Best practice siting and management of lighting to prevent	t						
		light spill and intrusion		С	4	Moderate	E	5	Low
		* Revegetation of haul road batters			4	Wioderate	_		LOW
		* Retain existing vegetation wherever possible							
		* Implement landscape and visual vegetation screening							
Waste	Incorrect handling, use, storage and/or disposal	* Contract with licensed waste contractor	Western Coal Services Project EIS						
	of hazardours/toxic waste causing impact to the	* Regular waste management inspections	SCSO Waste Management System						
	environment and human health	* Metals recycling		С	4	Moderate	E	1	Low
		* Waste tracking and reporting waste streams		,	4	wouerate	С	4	LOW
		* Segregated receptacles							
		* Training and awareness							

Environmental Management Strategy
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# Appendix 6 Environmental Inspection Forms



#### **Western Coal Services Environmental Inspection Sheet**

LEGEND: The following legend is to be used to describe the condition of the Plant after the scheduled Service/Inspection. Every item on the schedule must be noted as per the legend for the Plant to be passed fit for purpose. If not the machine will be tagged as out of service until the service is completed.

- A- Inspected, in good order, no fault found, inspection/servicing completed.
- B- Fault found and repaired, inspection/servicing completed, no further action required.
- **C** Fault found but not repaired, inspection/servicing completed. Plant is safe to use. Fault to be repaired at earliest opportunity.
- **D-** Defect found affects safety of operator or apparatus. Repair not completed, machine tagged out of service.

Item to be inspected:   Washery/Office/Workshop	L	Date:	_ Start time: Finish time:					
1. PIRMP Is hardcopy of the PIRMP available in the office  2. Environmental Policy  3. Waste Oil Storage Area  Are drum drainage bins full Are there spills that require clean up Are there spill response kits on site  General housekeeping Are any bins overflowing? Spills  5. Dust  General Dust  REA CEMP requires weekly inspections:  Soil management			Inspection Description:					
2. Environmental Policy  Is the environmental policy displayed in the office  Are drum drainage bins full Are there spills that require clean up Are there spill response kits on site  General housekeeping Are any bins overflowing? Spills  5. Dust  REA CEMP requires weekly inspections:  Soil management	Washery/Office/Workshop							
Are there spill state require clean up Are there spills that require clean up Are there spill response kits on site  General housekeeping Are any bins overflowing? Spills  5. Dust  REA CEMP requires weekly inspections:  Soil management	1.	PIRMP	Is hardcopy of the PIRMP available in the office					
Are there spills that require clean up Are there spill response kits on site  General housekeeping Are any bins overflowing? Spills  Dust  General Dust  REA CEMP requires weekly inspections:  Soil management	2.		Is the environmental policy displayed in the office					
Are any bins overflowing?  Spills  5. Dust  General Dust  REA CEMP requires weekly inspections:  Soil management  Status of rehabilitation  Biodiversity/Weed Management  Sources and control of dust  Sources and control of noise  Sources and control of noise  Main Sediment Dam  Are there any defects on the dam crest, batters or spillway Is water treatment required  Are there any defects on the dam crest, batters or spillway Temp:  Are there any defects on the dam crest, batters or spillway PH:  Temp:  Are there any defects on the dam crest, batters or spillway PH:  Temp:  Are there any defects on the dam crest, batters or spillway PH:  Are there any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:  Are there any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:  But the any defects on the dam crest, batters or spillway PH:	3.		are there spills that require clean up					
REA CEMP requires weekly inspections:  Soil management	4.	General	Are any bins overflowing?					
Soil management	5.	Dust	General Dust					
Are there any defects on the dam crest, batters or spillway    Section   Ph:	6.	REA CEMP	Soil management      Status of rehabilitation      Biodiversity/Weed Management      Sources and control of dust      Sources and control of noise      water and waste management see other sections					
7. Main Sediment Dam  Is water treatment required  Is water treatment required  Are there any defects on the dam crest, batters or spillway  PH:			Water Management System	T				
8. Washery EC:µS/cm	7.			EC:µS/cm				
	8.	•		•				

Temp: ...



	Springvale Coal Services Operat				
	Item to be inspected:	Inspection Description:		Condition (A, B, C, D)	
9.	Stockpile Sediment Pond	Are there any defects on the dam crest, batters or spillway  Is water treatment required	pH: EC:µS/cm TDS:ppm Temp:		
10.	. Retention Pond	Are there any defects on the dam crest, batters or spillway  Is water treatment required	pH:		
11.	. Cooks Dam	Are there any defects on the dam crest, batters or spillway  Is water treatment required	pH:		
12.	. DML Dam	Are there any defects on the dam crest, batters or spillway  Is water level within normal trends	pH:μS/cm TDS:ppm Temp:		
13.	. LDP06	Are there any defects on the weir  Does the sediment control require replacement  Level:	pH: EC:µS/cm TDS:ppm Temp:		
14.	Sediment Controls	Do the sediment controls require repairs  Do the sediment controls require desilting			
15.	. Sewage System	Does the septic tank require a pump out			

#### **Action Required**

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#### **Lidsdale Siding Environmental Inspection Sheet**

LEGEND: The following legend is to be used to describe the condition of the Plant after the scheduled Service/Inspection. Every item on the schedule must be noted as per the legend for the Plant to be passed fit for purpose. If not the machine will be tagged as out of service until the service is completed.

- **A-** Inspected, in good order, no fault found, inspection/servicing completed.
- B- Fault found and repaired, inspection/servicing completed, no further action required.
- **C** Fault found but not repaired, inspection/servicing completed. Plant is safe to use. Fault to be repaired at earliest opportunity.
- **D** Defect found affects safety of operator or apparatus. Repair not completed, machine tagged out of service.

Date:	Start time:	Finish time:
-------	-------------	--------------

	Item to be inspected:	Inspections Description:	Condition (A, B, C, D)
1.	Chemical Storage	Are there spills that require clean up  Are there spill response kits that require filling	
2.	General	General housekeeping Are any bins overflowing Spills	
3.	Dust	Are dust issues under control	
4.	Triangle Dam	Are there any defects on the dam crest, batters or spillway  Is water treatment required  pH EC(µS/cm) TDS(ppm) Temp  Level(m)	
5.	Main Dam	Are there any defects on the dam crest, batters or spillway  Is water treatment required  pH EC(µS/cm) TDS(ppm) Temp	
6.	Drains	Are coal fines in the drains that can migrate off site	
7.	Refueling Area	Evidence of fuel spills	
8.	Train Loader	Cleanup of coal spills required	
9.	Sediment Control	Do the sediment controls require repairs  Do the sediment controls require desilting	



10. Land Management	Is slashing or weed control required		
11. Water tank and	Inspect tank integrity		
bore pump	Bore pump meter reading	Enter in APP130967	

#### **Action Required**

Date .....

Signed.....Person Completing Inspection

# Appendix 7 Incident Report and Detail Form



## INCIDENT, INCIDENT DETAIL AND INVESTIGATION FORM

Report Prepared by:					
Pulse ID Number: (office use only).					
PART A – INCIDENT R	<b>EPORT</b>				
Personal Injury	Plant D	amage	Environmen	ntal C	ommunity
Legal	Near m	niss	Cable Dama	ge V	ehicle Accident
Fire	Enviror	nmental	Other		
Date of Incident:			Time of Incid	lent:	am/pm
Location of Incident:					
Reported by:	Name:		Occupation:		Date
Reported to:	Name:		Occupation:		Date
Person involved in Incident:	Name:		Occupation:		Date:
Description of Incident:					
Other Persons Involved	Name:			Occupation:	
or Witnesses:	Name:			Occupation:	
	Name:			Occupation:	
Equipment Involved:					
Immediate Corrective Action Taken:					
SKETCH OF INCIDENT SCENE:	•				
INCIDENT CLASSIFICATIO Refer to Incident Classification Matri.	Tiele		II	nvestigation	
Level 1		Chief Operating Of	ficer initiates Investig	ation by Independent Te	am
Level 2a					
Level 2b		Coal Distribution Manager initiates Investigation			
				egate an appropriate per	son to instigate an
Level 3		investigation using Part C and D of this Form.  Incidents that require notification to DII under CMHS regs Clause 56 shall trigger an investigation to be initiated by the Superintendent using Part C and D of this Form.			

## PART B – INCIDENT DETAILS

#### ☐ PERSONAL INJURY

Injured Person:	Name: Occupation:
Contractor:	□ No □ Yes Company:
Shift / Roster	Shift:
Nature of injury:	
Part of body injured:	
Was PPE in use?	☐ Yes ☐ No Comment:
Task at time of injury:	
Task Frequency:	☐ Each Shift ☐ Weekly ☐ Rarely ☐ First Time
Treatment at Site:	☐ Yes ☐ No By Whom:
Treatment given:	
Immediate Response:	☐ Return to Duties ☐ Sent to First Aid Room ☐ Sent to Hospital
Consequence:	☐ Report Only ☐ First Aid ☐ Medical Treatment
	☐ Restricted Work ☐ Lost Time ☐ Fatality
☐ PLANT DAMAGE	
Classification:	☐ Damage ☐ Failure ☐ Loss ☐ Theft
Equipment:	Type: Operator:
	Plant/Unit No.: Model:
Estimated Cost	□ \$0 - \$100,000 □ \$100,000 - \$1M
	□ \$1M - \$ 10M □ \$ 10M - \$50M □ $> $50M$
Production Loss	□ < 12 hours □ 12 hours − 1 day
	$\square$ 1 day – 1 week $\square$ > 1 week $\square$ > 1 month
_	
■ ENVIRONMENT	or
	☐ Phosphate Ester Oils ☐ Chemical Spill ☐ Diesel
Type of Incident:	☐ Blasting, Vibration ☐ Dust ☐ Oil
	☐ Noise ☐ Lighting ☐ Water
	☐ Flora/Fauna ☐ Traffic ☐ Other
Volume and/or Duration:	
Climate	☐ Wind Speed ☐ Rainfall in past 24 hours
Consequence:	☐ No Impact ☐ Mining Lease Condition breach ☐ Penalty
-	☐ Minor Pollution event ☐ Development Consent breach
	☐ EPA Inspection ☐ Complaint
	☐ Major Pollution Event ☐ Breach of EPA license
☐ LEGAL	
Legislative Requirement:	
Nature of Breach:	
Governing Body:	Title: Notification required ☐ Yes ☐ No
Soverning Body.	Notification carried out by: Signed: Date:
SIGN OFF	Name Signature Date
Supervisor:	
Superintendent:	
Engineer (if applicable):	
Coal Distribution Manager:	

#### PART C - INCIDENT INVESTIGATION AND ANALYSIS

Investigation Report Prepared by: .....

Team: Member: Signature Date:  Member: Signature Date:  Attachments: Incident Notification Brief Witness Statement Photos  Drug and Alcohol Test SWP JSA  Detailed Description of Incident including the sequence of events leading up to the incident  CONTRIBUTING FACTORS - did this factor (or its inadequacy/failure) contribute to the incident  (use the "5 WHY's" to identify the factors that contribute to this incident)  FOPLE  1 - Communication 2 - Drugs or Alcohol 3 - Fatigue 1 - Guards & Barriers 1 - Guards & Barriers 1 - Hazard Identification 1 - Job Safety Analysis 1 - Permits 1 - Procedures 1 - Powerkelee Conditions				
Attachments:   Incident Notification Brief   Witness Statement   Photos   Drug and Alcohol Test   SWP   JSA    Detailed Description of Incident including the sequence of events leading up to the incident    CONTRIBUTING FACTORS - did this factor (or its inadequacy/failure) contribute to the incident    (use the "5 WHY's" to identify the factors that contribute to this incident)  EOPLE   1 - Communication   PLANT   PROCEDURE/PROCESS     1 - Communication   10 - Abnormal Operation   15 - Hazard Identification     2 - Drugs or Alcohol   11 - Guards & Barriers   16 - Job Safety Analysis     3 - Fatigue   12 - Maintenance   17 - Permits     4 - Rushing   12 - Maierals or Tools   18 - Procedures     5 - Training, Skills   14 - PPE   19 - Housekeeping     7 - Supervision   20 - Workplace Conditions     8 - Deviant Breach   21 - Other    Description of contributing factors: (write corresponding number from list above in box)	Investigation	Investigation Leader:		Date:
Attachments:    Incident Notification Brief			Signature	Date:
Detailed Description of Incident including the sequence of events leading up to the incident  CONTRIBUTING FACTORS - did this factor (or its inadequacy/failure) contribute to the incident?  (use the "5 WHY's" to identify the factors that contribute to this incident)  FOPLE  1 - Communication 2 - Drugs or Alcohol 3 - Fatigue 1 - Guards & Barriers 1 - Fatigue 2 - Fatigue 2 - Fatigue 2 - Fatigue 3 - Fatigue 3 - Fatigue 3 - Fatigue 3 - Fatigue 4 - Fatigue 3 - Fatigue 4 - Fatigue 5 - Fatigue 6 - Fatigue 6 - Fatigue 7 - Fatigue 7 - Fatigue 7 - Fatigue 8 - Fatigue 9 - Fa		Member:	Signature	Date:
CONTRIBUTING FACTORS - did this factor (or its inadequacy/failure) contribute to the incident?  (use the "5 WHY'S" to identify the factors that contribute to this incident)  EOPLE 1 - Communication 2 - Drugs or Alcohol 3 - Fatigue 1 - Guards & Barriers 4 - Rushing 1 - Supervision 1 - Abnormal Operation 1 - PLANT 1 - PEE 1 - Owner of the contribute of the incident of the incident?  PROCEDURE/PROCESS 1 - Lazard Identification 1 - Jo - Soafety Analysis 1 - Permits 1 - Permits 1 - Permits 1 - Procedures 1 - Permits 1 - Procedures 1 - Phousekeeping 2 - Workplace Conditions 1 - Supervision 2 - Other  Description of contributing factors: (write corresponding number from list above in box)	Attachments:	☐ Incident Notification Brief	Witness Statement	Photos
CONTRIBUTING FACTORS - did this factor (or its inadequacy/failure) contribute to the incident?  (use the "5 WHY's" to identify the factors that contribute to this incident)  EOPLE  1 - Communication 1 - Drugs or Alcohol 1 - Drugs or Alcohol 1 - Drugs or Alcohol 1 - Faigue 1 - Maintenance 1 - Permits 1 - Faigue 1 - Maintenance 1 - Permits 1 - Slip / Lapse 1 - Training, Skills 1 - PPE 1 - Other  Description of contributing factors: (write corresponding number from list above in box)		□ Drug and Alcohol Test	□ SWP	□ JSA
(use the "5 WHY's" to identify the factors that contribute to this incident)  EOPLE  1 - Communication 2 - Drugs or Alcohol 3 - Fatigue 1 - Guards & Barriers 1 - Guards & Barriers 1 - Guards & Barriers 1 - Job Safety Analysis 1 - Permits 1 - Permits 1 - Permits 1 - Permits 1 - Procedures 1 - Procedures 1 - Training, Skills 1 - Supervision 1 - PPE 1 - Other  Description of contributing factors: (write corresponding number from list above in box)	Detailed D	escription of Incident including the sec	quence of events leading up to	the incident
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12 - Drugs or Alcohol   3 - Fatigue		1 D 10 Abnormal Operation		
1 3 - Fatigue   12 - Maintenance   17 - Permits   1 4 - Rushing   13 - Materials or Tools   18 - Procedures   1 5 - Slip / Lapse   14 - PPE   19 - Housekeeping   2 0 - Workplace Conditions   3 7 - Supervision   21 - Other   3 8 - Deviant Breach   9 - Cultural Breach   4 9 - Cultural Breach   Description of contributing factors: (write corresponding number from list above in box)	=	01		
4 - Rushing   13 - Materials or Tools   18 - Procedures   19 - Housekeeping   10 - Training, Skills   14 - PPE   20 - Workplace Conditions   21 - Other   21 - Other   21 - Other   21 - Other   22 - Workplace Conditions   23 - Other   24 - Other   24 - Other   25 - Other   25 - Other   25 - Other   25 - Other   26	•		•	
16 - Training, Skills 17 - Supervision 18 - Deviant Breach 19 - Cultural Breach  Description of contributing factors: (write corresponding number from list above in box)	•			
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Description of contributing factors: (write corresponding number from list above in box)	☐ 7 - Supervision			
Description of contributing factors: (write corresponding number from list above in box)			_ 21 0 0.001	
	■ 9 - Cultural Breach	l		
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#### PART D - RECOMMENDED CORRECTIVE ACTIONS

Corrective Action:	Action:				
D	By Who:		By When:		
Description:					
Entered into PULSE "Act	tions Required"	system by:		PULSE Reference Nun	nher·
Corrective Action:	Action:				
	By Who:		By When:		
Description:	,				
Entered into PULSE "Act	tions Required"	system by:		PULSE Reference Nun	nber:
Corrective Action:	Action:				
	By Who:		By When:		
Description:					
Entered into PULSE "Acti		system by:		PULSE Reference Nur	nber:
Corrective Action:	Action:		5 144		
Description	By Who:		By When:		
Description:					
Entered into PULSE "Act	tions Required"	system by:		PULSE Reference Nun	nher <sup>.</sup>
Corrective Action:	Action:	u system by.		1001.	
	By Who:	By When:			
Description:			, -		
Entered into PULSE "Act	tions Required"	system by:		PULSE Reference Nun	nber:
RECOMMENDE	D LONGER TERI	M CORRECTIVE ACTION			
Description:					
F					
Key Issues from	this incident th	at should be shared with oth	ners		
Was this shared with ot	her :	☐ Crews		☐ Shifts	☐ Sites
FINAL SIGN	OFF	Name:		Signature:	Date:
Person involved in incid	dent:				
Witnesses:					
Engineer:					
Supervisor:					
Superintendent:					-
Coal Distribution Mana	ager:				

# Appendix 8 Complaints Form



#### **DUTY CARD 6**

# **COMPLAINT RECORD FORM**

Respect the complainant – they are potentially impacted members of the community – the company's reputation and social licence is at stake

DATE OF COMPLAINT:
TIME of Complaint:
Exact time they were impacted:
SUBJECT OF COMPLAINT: - Get the specifics of the situation
What were their exact words:
Ask what type of impact (noise / air / water etc)
Ask what is the impact the complainant is experiencing (is it loud / have we dusted their house or car / is there continual noise – what type – what can they here or see / is it a pollution impact etc)
NAME OF COMPLAINANT:
ADDRESS:
Complainant PHONE NUMBER:
RECORDED BY CONTROL ROOM OPERATOR:
Name
Signature and Date

# Appendix 9 Environmental Business Management Framework



# Environment and Approvals Business Management Framework

# January - December 2016

Approved: Executive General Manager			
Approved: General Manage	er		
Author	Mary-Anne Crawford		
File Name	APP96832 (Fassifern Doc1 Library)		

Circulation Details: Hard Copy, Doc1 (as above), Fassifern Controlled Documents

Executive General Managers, Mine Managers & All Environment and Approvals Personnel

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Policies – Refer to Environment under Controlled Documents on Lotus Notes

Management System Standards and Guidelines – Refer to CIMOS and Environment under Controlled Documents on Lotus Notes

Organisational Chart – Refer to Human Resources on Lotus Notes

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# **General Elements**

The Centennial Environment and Approvals Business Management Framework (BMF) sets the minimum standard for establishing the link between the needs and aspirations of the Company Strategic Plan and the people who work towards it. The BMF provides role clarity and systems that incorporate due diligence and business improvement processes.

Centennial's mission and vision highlight the importance of environment and community in sustainable business operations. Centennial's mission is to operate and grow a sustainable mining business, delivering value to its customers and exceeding the expectations to our stakeholders.

Centennial's values include communicating honestly and openly with our stakeholders, encouraging innovation and valuing our corporate reputation and social licence to operate.

To be sustainable, Centennial must, amongst other things, seek zero harm to the environment, leave a community with greater capacity than when we arrived, maximise the value of the resources we use and secure new resources.

Centennial has developed an environmental logo that supports its mission and vision.

The core objective for the Environment and Approvals team within Centennial Coal is to:

Improve environmental understanding through development of real time, efficient and cost effective management strategies.

Centennial Coal has identified its environmental risk profile through a comprehensive review of impact assessments, costs, site based and enterprise wide risk assessments and incident analysis. This review has identified four strategic risk areas:

- Water
- Biodiversity and Land Management (including Cultural Heritage Management)
- Rehabilitation and Mine Closure
- Environmental Management Systems (including data management)

Specific group resources have been allocated to developing and implementing strategy under these risk areas. This BMF documents the process for developing and implementing these strategies.

An additional risk area that has increased its profile over time is that of community engagement. Specific community engagement resources are engaged by the Company to assist in:

- building capacity and confidence at an operational and project level;
- ensure the objectives of the corporate stakeholder engagement strategy are adopted at an operational and project level;

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- ensure that the linkages between different functions of Centennial Coal are considered and maintained;
- ensure existing tools are applied consistently and to maximum benefit; and
- communicate between corporate and local initiatives so stakeholder engagement activities are undertaken at an appropriate level and accountability is enhanced.

This BMF documents the process for developing and implementing a company wide community engagement strategy.

The focus of this BMF is to develop strategy, report on environmental and approval performance and reduce the costs to the business of environmental monitoring and management. The BMF focusses on utilising internal resources to achieve strategic outcomes and reducing the Company's reliance on outsourced services. There are three reasons for this:

- 1. Cost reduction strategy is required for all functional areas of the business
- 2. Retention of corporate knowledge stays with Centennial Coal
- 3. Environmental personnel focus on participating in the business

Where identified through the strategic planning process, contracted environmental services will be sourced at fixed pricing. All requests for contracted environmental services will be supported by an appropriately level of justification, as defined on **page 23** of this BMF.

The BMF is focussed on reducing inconsistency and duplication. Standards and Guidelines for the implementation of environmental management outcomes will be developed and audited as described on **page 12 to 14** of this BMF. Management activities will be consolidated where there is a clear business benefit in doing so. Resources will be pooled and aggregated to provide greater catchment wide benefits.

Consultation with government and advocacy groups is emphasised through the BMF on page 6 to 8.

Each year this BMF is reviewed and configured to achieve the requirements of the Corporate Strategic Plan. Management effort is then applied to these goals through the BMF processes and with employees' Staff Performance Development Reviews.

Continuous improvement strategies are incorporated into the BMF processes. The dissemination of suitable environment information is also a component of the site BMF and supports the Company's Health Safety Environment and Community systems.

The Business Management Framework addresses the following key result areas and is aligned to the functions outlined in each position description for environment roles:

- Health/Safety/Environment/Community
- Production / Costs
- People Development (incorporating communication processes)
- Continuous Improvements

For the purposes of this BMF, team members refers to any person required to comply with the requirements of this BMF, conditions of any environmental approval and/or to participate in a Process Improvement Team to improve understanding of the environment within which we operate.

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## Health, Safety, Environment and Community

#### 1. IMPLEMENTATION OF MANAGEMENT SYSTEMS

**Purpose**: To identify and review the aspects of management systems relevant to environment and approvals team members and communicating the impacts of systems changes to relevant personnel within the Company.

Co-ordinator: All environment and approvals team members

#### **Process:**

Each member of the environment and approvals team must participate as requested in:

- risk assessments,
- development, review and implementation of standards/guidelines,
- management system audits and reviews

As outlined throughout this BMF.

#### 2. REGULATORY REFORM

**Purpose**: To identify and document the Centennial process for reviewing legislative change and communicating the impacts of legislative change to relevant personnel within the Company.

**Co-ordinator**: General Manager Environment and Approvals

#### **Process:**

There are a number of mechanisms whereby legislative change is identified by the Company. These include weekly rss feeds from the Parliamentary Council Office, Environment Defenders Office weekly updates, New South Wales Minerals Council and legal updates from law firms.

The General Manager Environment and Approvals will identify mechanisms for reviewing legislative change and will communicate these changes in accordance with the Centennial Coal Environmental Management System.

Members of the environment and approvals teams must participate as requested by the GM E&A in:

- Industry working groups on key industry risk areas
- Review of legislative changes
- Updating risk registers, compliance registers and databases and HSEC reporting systems

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#### 3. CORRESPONDENCE WITH STATUORY BODIES AND AGENCIES

**Purpose:** To ensure that all correspondence that has a bearing on the statutory compliance and significant business outcomes of the company is systematically managed and recorded in accordance with company Management System Standards (refer to **Appendix 3**). This applies to any Government Department, including local, State and Federal.

Where there is a risk of statutory compliance, the relevant member of the environment and approvals team must have regard to the relevant Department's prosecution guidelines. These can be found at <a href="http://www.epa.nsw.gov.au/resources/legislation/20130141EPAProsGuide.pdf">http://www.epa.nsw.gov.au/resources/legislation/20130141EPAProsGuide.pdf</a> and <a href="http://www.planning.nsw.gov.au/Assess-and-Regulate/Development-Assessment/Compliance">http://www.planning.nsw.gov.au/Assess-and-Regulate/Development-Assessment/Compliance</a>

**Coordinator**: General Manager Environment and Approvals

#### **Process: Outgoing Correspondence**

Outgoing correspondence includes letters, emails and faxes. Where emails provide information to a statutory body on the operations or approvals of the company, this email (and any associated attachments) must be filed following this system.

Each member of the environment and approvals team (including site based environmental personnel) who has outgoing correspondence with statutory bodies, agencies or other relevant stakeholders must:

- 1. Create a folder in the Doc One System that will store all correspondence relating to the matter using identifiers that include the site name and agency. This folder is created under the Environment Library under Regulatory Correspondence/Contact.
- 2. Create the correspondence in the DOC One folder, and identify the document reference by 'site' and 'agency' and include other relevant keyword descriptor.
- 3. Access to the created folder must include CEY Legal, General Manager Environment and Approvals, Group Environment Manager, Group Approvals Manager, relevant senior management, and the relevant mine site personnel.
- 4. Liaise with the relevant Mine Manager/Project Manager as to the content and intent of the correspondence.
- 5. Following consultation with the Legal Team and the Group Environment Manager/ Group Approvals Manager, obtain the appropriate authority and signatory for the correspondence.
- 6. Ensure a copy of the correspondence is recorded in the Environment and Community Database for the operation (ECD), Compliance Database, Doc1 and a copy provided to Centennial Legal and the Group Approvals Manager and/or Group Environment Manager
- 7. Ensure any actions identified within the correspondence are documented in the Compliance Database.

#### **Process: Incoming Correspondence**

Each member of staff who has incoming correspondence from statutory bodies, agencies or other relevant stakeholders must, in additional to site based management and review procedures:

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- 1. Provide a copy to the Group Environment Manager/ Group Approvals Manager
- 2. Follow step 1 to 3 of outgoing correspondence to ensure appropriate filing
- 3. The Mine Manager/Project or Environment & Community Coordinator is to Liaise with the Group Environment Manager/ Group Approvals Compliance regarding the correspondence.
- 4. The Group Environment Manager/ Group Approvals Manager is to determine if the correspondence is required to be forwarded to the General Manager Environment & Approvals/ General Counsel and other relevant senior management.
- 5. The correspondence is to be copied in to the General Manager Environment and Approvals and General Counsel.
- 6. A copy of the correspondence is to be filed as per the procedure outlined in item 6 and 7 under Outgoing Correspondence.

#### 4. MANAGEMENT OF REGULATORY ACTIONS

From time to time, Centennial Coal or its subsidiaries may be subject to regulatory action in respect of compliance with relevant environmental approvals. Regulatory actions must be dealt with according to the protocol established under CIMOS MS012 External Environmental Reporting as well as the process outlined within this BMF. Where there is a difference between the management protocol in the BMF and the CIMOS MS, the CIMOS MS takes precedence.

This section relates specifically to regulatory actions that will, or may, result from internal/external audits, notices and/or legal appeals.

**Coordinator**: General Manager Environment and Approvals

**Process**: Each member of staff who has correspondence (letter, email or other) from a statutory body, agency or government regulator that is, or is likely to, result in regulatory action must, in addition to site based management and review procedures:

- 1. Provide a copy to the Mine Manager/Project Manager, General Counsel & the Group Environment Manager/ Group Approvals Manager
- 2. The Group Environment Manager/ Group Approvals Manager will determine if the correspondence requires the attention the General Manager Environment & Approvals and General Counsel.
- 3. Follow sections 3.3.1, 3.3.2 and 3.3.3 of the CIMOS MS012 External Environmental Reporting
- 4. Ensure all instructions provided by the General Counsel and/or GM E&A are followed and evidence is documented using the appropriate Company protocol (including establishment and security of legal professional privilege)
- 5. Where a legal appeal is contemplated or legal action is taken, the GM E&A must consult the relevant Mine Manager, General Counsel, and relevant senior management.
- 6. The GM-E&A, in consultation with the General Legal Counsel, must complete the weekly Environment and Approvals section of the weekly Risk and Compliance report on the status

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of the action and file this report within an appropriately identified Doc One file, following steps 1 to 3 in section 5 above.

7. Ensure reporting of regulatory actions is undertaken to Senior Management, Board HSEC Sub-committee and the Board as per the requirements of this BMF.

#### 5. ENVIRONMENTAL IMPROVEMENT PROCESS

**Purpose:** To review environmental incidents on an annual basis and develop strategic improvement plans aligned with budget requirements.

Co-ordinator: Group Environment Manager

**Process:** Steps required in this process are:

- Each August a statistical and qualitative review will be conducted regarding the previous 12
  months environmental incident data for the company. This review is targeted at identifying
  areas for improvement.
- 2. The Coordinator undertakes this review in consultation with group technical specialists, site environmental coordinators, approvals coordinators, the Group Approvals Manager and the General Manager Environment and Approvals.
- 3. The Coordinator presents the data and recommendations to the company HSEC Team where an area or areas for improvement are identified.
- 4. The appropriate team to undertake the improvement task is selected; this should include a cross section of the environment team.
- 5. A Project Description, milestones and budget is developed by the Project Team. The Project is scheduled to be completed in the following calendar year.
- 6. Where required, project funding is identified and included in the relevant site/corporate budget
- 7. The General Manager Environment and Approvals approves the project and seeks budget approval from the company which is then input into the following year's business plan.
- 8. The Coordinator provides updates to the Company HSEC Team at each quarterly meeting

#### 6. STAKEHOLDER ENGAGEMENT IMPROVEMENT PROCESS

**Purpose:** To review the Company, Regional and Site Stakeholder Engagement Plan, community engagement activities, feedback from communities and community complaints on an annual basis and develop strategic improvement plans aligned with the Company's strategic plan.

**Co-ordinator:** Group Stakeholder Engagement Manager

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- Each August a statistical and qualitative review will be conducted regarding the previous 12
  months community data for the company. This review is targeted at identifying areas for
  improvement.
- 2. The Coordinator undertakes this review in consultation with group technical specialists, site environmental coordinators, approvals coordinators, the Group Approvals Manager and the Group Environmental Manager.
- 3. The Coordinator presents the data and recommendations to the company HSEC Team where an area or areas for improvement are identified.
- 4. The appropriate team to undertake the improvement task is selected; this should include a cross section of the environment team.
- 5. A Project Description, milestones and budget is developed by the Project Team. The Project is scheduled to be completed in the following calendar year.
- 6. Where required, project funding is identified and included in the relevant site/corporate budget
- 7. The General Manager Environment and Approvals approves the project and seeks budget approval from the company which is then input into the following year's business plan.
- 8. The Coordinator provides updates to the Company HSEC Team at each quarterly meeting

#### 7. ANNUAL ENVIRONMENTAL MANAGEMENT REPORT

**Purpose:** To review annual environmental performance and management activities across the company. To benchmark Centennial's operations against one another and against known industry standards. To provide consistent and timely reporting on environmental performance and environmental approvals matters, process improvements, incidents, complaints and progress against plan to relevant internal and external stakeholders.

Co-ordinator: Group Environment Manager

- 1. On a quarterly basis (April, July, October and January) review and update environmental performance, monitoring and community activities of the company as per the requirements of the Annual Review in the Baseline Data Collection Standard.
- 2. The Quarterly Review Template, available on Lotus Notes, must be used by each site to complete the review process.
- 3. Provide a quarterly report to the General Manager Environment and Approvals on the performance of the group against relevant indicators in April, July, October and January
- 4. Provide an Annual Report to the General Manager Environment and Approvals on the performance of the group against relevant indicators in February (prior to the first Board HSEC Committee meeting of the year)
- 5. The report must include, as a minimum:

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- o A description of the activities undertaken for the previous and next quarter, by site
- A description of the environmental values impacted or likely to be impacted, by site
- o The performance, by site, against the relevant statutory approvals, by exception
- Details of non-compliances during the period, including outcomes of investigations, potential for regulatory action and what, if any, consultation has been had with regulators on the non-compliance
- A sign off that the Group Environment Manager has reviewed the trend analysis undertaken by the site during the relevant reporting period
- Reporting by exception any off trend results, including the potential cause of such results
- A summary of measures to be implemented over the next reporting period to improve environmental performance
- Summary of the outcomes of any change management undertaken as a result of exploration, expansion/modification/intensification actions, changes in mine design/method, new equipment, and any other action with the potential to impact on the environment
- Identification of any site based environmental initiatives that meet criteria for best practice/leading practice
- Summary statistics on incidents by category, complaints, audits undertaken by site and across the group
- A summary of industry wide performance statistics relating to environmental management (including monitoring results for key risk areas, incidents and community complaints).

#### 8. ANNUAL ENVIRONMENTAL APPROVALS REPORT

**Purpose:** To review the delivery of environmental approvals across the group on an annual basis. To benchmark the delivery of approvals against external mining companies and other industries so that improvements can be identified and implemented. To provide consistent and timely reporting on environmental performance and environmental approvals matters, process improvements, incidents, complaints and progress against plan to relevant internal and external stakeholders.

Co-Ordinator: Group Approvals Manager

- 1. On a quarterly basis (April, July, October and January) review and update the delivery of approvals and associated community activities of the company
- 2. Provide a quarterly report to the General Manager Environment and Approvals on the performance of the group against relevant indicators in April, July, October and January

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- 3. Provide an Annual Report to the General Manager Environment and Approvals on the performance of the group against relevant indicators in February (prior to the first Board HSEC Committee meeting of the year)
- 4. The report must include, as a minimum:
  - o A description of the activities undertaken for the previous and next quarter, by project
  - A description of the environmental risks, as assessed using the Centennial Risk Matrix, likely to exist as a result of each project
  - o The performance, by project, against the planned delivery of environmental approvals
  - A summary of measures to be implemented over the next reporting period to improve delivery of environmental approvals
  - Summary of the outcomes of any change management undertaken as a result of scope creep from (not limited to) exploration, expansion/modification/intensification actions, changes in mine design/method, new equipment, and any other action with the potential to impact on the environment
  - Any delays during the period and the management controls implemented to ensure such delays are minimised
  - Identification of any project based environmental initiatives that meet criteria for best practice/leading practice
  - Summary statistics on incidents by category, complaints, audits undertaken by project and across the group
  - Summary of timelines for project approvals across the industry, including a comparison against Centennial Coal projects to benchmark the delivery of project approvals with industry averages.

#### 9. MANAGEMENT SYSTEM AUDIT / REVIEW

**Purpose:** To ensure a team based approach to auditing and reviewing, improving communication and understanding of the implementation of Company wide Environmental Management Systems, Management Standards and Guidelines.

Co-ordinator: Environmental Management Systems Specialist

- 1. Document Owners are identified for the relevant Company systems. (The following section shows nominated Document Owners and Audit Review Schedules)
- 2. The Coordinator in conjunction with the Document Owner develops an audit document for the nominated system.

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- 3. The Coordinator will review all development consents for each operation and develop a schedule for external auditing in accordance with the consent requirements. This schedule will include the identification of appropriately qualified technical specialists as required by audit conditions.
- 4. The Coordinator will develop a schedule for internal auditing of management plans, consent conditions (including licenses, leases and other authorities held at an operation). This schedule will include the resources required for auditing and the timeframe for audit results to be reported.
- 5. The Coordinator appoints or nominates site or external personnel to conduct the audit in accordance with the site's standard.
- 6. Any audit report required to be provided to a regulatory agency will be supplied in the required timeframe and will be accompanied by an approved plan of action. The plan of action must be approved by the relevant Mine Manager, the Group Environment Manager, and the General Management Environment and Approvals.
- 7. The Coordinator develops a quarterly audit report for presentation to the Group Environment Manager.
- 8. Any actions required are input into the Compliance Database by the Coordinator
- 9. A review and schedule is developed in November for the continuing 12 months

#### 10. PROCESS FOR CORPORATE DOCUMENT REVIEW

**Purpose:** To ensure an appropriate amount of time is provided for the review and, if required, approval of documents by personnel external to the site. This may include, but not be limited to, the Group Environment Manager, Group Approvals Manager, General Manager Environment and Approvals, Centennial Legal, External Affairs and the senior management team.

**Co-ordinator:** All employees responsible for the submission of documentation requiring review and/or approval

- 1. The timeframes identified in MS012 External Environment Reporting, and in particular **section 3.3.5** of that Standard, applies to <u>all</u> documents required for management review.
- 2. The Internal Decision Making Process described on **page 22** of this BMF will be followed for documents that require management review.
- 3. All documents submitted for management review must be supported by the Internal Decision Making Memo as described on **page 22** of this BMF.
- 4. The Internal Decision Making Memo and supporting documentation must be provided to the Group Environment Manager and/or Group Approvals Manager a minimum of 2 weeks prior to the required submission date to government. This is to allow for corporate review and inclusion of the review on the relevant weekly report.
- 5. The relevant Group Manager will ensure the documentation required for review is tabled on the following weekly report and that the Internal Decision Making Memo is appended to that weekly report.

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- 6. The relevant Executive General Manager will table the Memo for discussion at the next available senior management meeting and will communicate the decision to the General Manager Environment and Approvals for action.
- 7. It is the responsibility of the site Environment Coordinator to ensure this process is followed and all relevant supporting documentation is submitted for management review.

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#### 11. DOCUMENT OWNERSHIP - SYSTEM CO-ORDINATOR

GROUP SPECIFIC STANDARDS, POLICIES, GUIDELINES, FRAMEWORKS:		
Title	Document Owner	
Business Management Framework	General Manager Environment and Approvals	
Environmental Management System	Environmental Management Systems Specialist	
Stakeholder Engagement Standard	Group Stakeholder Engagement Manager	
Environmental Impact Assessment Standard	Group Approvals Manager	
Baseline Data Collection Standard	Group Environment Manager	
Environment and Community Policy	General Manager Environment and Approvals	
Guidelines and Templates for EIA	Group Approvals Manager	
Guidelines and Templates for environmental performance	Group Environment Manager	
Pollution Incident Response Management Plans	Site Environment Coordinators	
Management Structure	General Manager Environment and Approvals	
External Reporting Standard	Group Environment Manager	
External compliance audits as per development consent	Environmental Management Systems Specialist	
Internal systems and approval audits	Environmental Management Systems Specialist	

#### 12. INTERNAL AUDIT AND REVIEW SCHEDULE 2016

Corporate Environmental Audit & Review Schedule			
Title	Review	Audit	Approver
Business Management Framework	Dec	Jan	GM
Environmental Management System	Oct	Sept	GEM
CIMOS012 External Environmental Reporting Standard	Mar	Jan	GEM
CIMOS014 Stakeholder Engagement Standard	Sept	Jan	GEM
CIMOS 013 Environmental Impact Assessment Standard	Sept	Jan	GAM
CIMOS 015 Baseline Data Collection Standard	Sept	Jan	GAM
Environment and Community Policy	Aug	NA	GM
Guidelines and Templates for EIA	Dec	NA	GAM
Guidelines and Templates for environmental performance	Dec	NA	GEM
Pollution Incident Response Management Plans	Site requirement	Sept	GEM
Management Structure	Dec	NA	GM
External compliance audits as per development consent		As per schedule	Enviro

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#### 13. GROUP SITE VISITS AND COMMUNITY ENGAGEMENT

**Purpose:** To provide an opportunity for the Group Environment Team to maintain a positive relationship with the operations and projects across the company and gain a better understanding of operational/project issues. This exercise requires the operational/project environment team member assisting and discussing activities (environmental management of water, biodiversity, land management, environmental management systems, projects, incidents, best practices, industry initiatives) with the Group Environment Team. This is a minimum requirement and does not negate further due diligence inspections.

**Coordinators:** GM E&A, GEM, GAM, Technical Specialists, Approval Coordinators, Environmental Projects Engineer, Site Environment Coordinators

- 1. The responsible Coordinator develops an appropriate site visit tool (including an agenda) and schedule for the nominated visit and distributes to the relevant Mine/Project Manager and the GM E&A for approval and senior management sign off.
- **2.** The Coordinator conducts the inspection, files agenda and minutes in Doc1 and inputs any work required into the Compliance Database
- **3.** The responsible Coordinator is to liaise with the GM External Affairs or delegate to identify community engagement activities for the following reporting period and develop an appropriate schedule for attendance, support, participation.
- **4.** The responsible Coordinator must provide management support by way of organisation and/or preparation for at least one (1) community event per year.
- **5.** Any actions arising from a site visit or community engagement event are reporting at HSEC meetings, monthly reports, quarterly reports, weekly reports.
- **6.** Each visit shall include as a minimum one PTO of an area of concern, a review of management system implementation for area of concern and an underground visit.

Area for Inspection / Audit	Responsibility	Frequency
Underground site visit	GM E&A, GEM, GAM, Tech Specialists, Coordinators	3 per annum
Underground visits	Site environment coordinators	3 per annum
Community event	GM E&A, GEM, GAM, Tech Specialists, Coordinators	2 per annum
Community Event	Site environment coordinators	3 per annum
Group site visit	GEM, GAM, Tech Specialists, Approvals Coordinator	Each site once per quarter
Group Site Visits	GM E&A	Each site once per annum
Site visits	Site environment coordinators Approvals coordinators	Each site once per annum

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#### 14. PLANNED MEETINGS

**Purpose:** To reinforce key areas and elements of business risk and provide regular and routine updates on corporate initiatives. To provide consistent and timely reporting on environmental performance and environmental approvals matters, process improvements, incidents, complaints and progress against plan to relevant internal and external stakeholders.

Co-ordinator: Group Environment Manager, Group Approvals Manager

**Process:** Steps in this process are:

- 1. In February each year, the Coordinator updates and, for the relevant area, creates calendar events for regular planned meetings as per the table below
- 2. The Coordinator populates the following table with the identified meetings
- 3. The Originator develops the agenda and reporting framework in accordance with identified meetings
- 4. Meeting invitations, agendas and papers are distributed to the appropriate persons for discussion
- 5. Once completed, the Coordinator collates and files the minutes and reports in the Doc One system under HSEC Reporting.
- 6. At a minimum, the following matters will be tabled for discussion at each meeting:
  - Corporate initiatives
  - Industry initiatives
  - Key industry policy matters
  - Review of weekly report and dashboard
  - Environmental performance (incidents, complaints, legal, regulatory actions)
  - Project approval status
- 7. At a minimum, the relevant Group Manager will attend all meetings.

FREQUENCY	SUBJECT	Time	Originator
Weekly	Project approvals update	8:30am Monday	GM Projects
Weekly	Coordinators weekly update	9am Monday	GEM
Weekly	Specialists weekly update	9am Wednesday	GAM
Weekly	Project Approvals and Legal update	2pm Wednesday	GM – Projects
Quarterly	Board HSEC Subcommittee	As scheduled	Committee Chair
Quarterly	Projects and Approvals Review	As scheduled	GM Projects
Quarterly	Strategic initiatives	First Friday at end of month	GM E&A

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FREQUENCY	SUBJECT	Time	Originator
Quarterly	Environment and approvals performance review	2 <sup>nd</sup> week of the end of the quarter	GEM/GAM
6 monthly	Group wide environment and approvals review	1 <sup>st</sup> Thursday in January and July	GME&A
Monthly	Property and titles review	11am Wednesday	GM Projects
Annual	Annual performance review	3 <sup>rd</sup> week of March	GME&A
Weekly	Direct report contact	As scheduled	GEM/GAM/GM

#### 15. ANNUAL ENVIRONMENT INNOVATION

**Purpose:** To identify Environment and Community improvement ideas and innovations from site situations and employees' contribution; develop the ideas or innovations; enter the ideas or innovations at the Centennial HSEC Innovations Conference and submit an entry to the NSW Minerals Council Environment and Community Innovations Conference.

Co-ordinator: GEM, GAM

**Process:** Steps required in this process are:

- 1. The process of identification of company wide innovation and excellence occurs at every meeting
- 2. The idea or suggestion must be tested against the innovation criteria of the NSWMC and/or the Centennial Coal innovation criteria.
- 3. A formal proposal is to be submitted to GM E&A for a go forward approval. Only proposals that meet the criteria for innovation or excellence will be considered.
- 4. Once approved, the idea or innovation is to be developed and presented to the judging committee for the conference in accordance with the criteria developed by the NSWMC
- 5. At least one Company entry is to be submitted to the NSW Minerals Council Environment and Community Innovations Conference.

#### 16. EMPLOYEE CONSULTATION AND OFFSITE VISITS

**Purpose:** To record the occurrences of employee offsite visits to seminars, suppliers and other approved functions as part of the ongoing education, awareness, and consultation process.

Coordinator: GM E&A

#### Process:

1. The relevant environment team member must prepare a memo outlining the nature of the offsite visit and the benefits that the visit will afford the company. This memo must include consideration of the relevant team members workload, the location of the visit, cost and the mechanisms for the communication of visit outcomes back to the company.

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- 2. The relevant environment team member shall submit the memo to the Coordinator
- 3. Only visits authorised by the GM E&A are to be undertaken.
- 4. The memo will be filed in Doc1

#### 17. TRAINING PLAN

Purpose: To ensure the environment team skills are kept up to date and relevant.

Coordinator: GEM, GAM

#### **Process:**

- 1. Coordinator is to schedule proposed training for the following year in October. Consideration should be given to the Self Administered Legal Training (SALT) as well as any other competency based training requirements under this BMF.
- 2. Proposed training must meet the expectations of this Business Management Framework and any environmental management system in place at the time the training plan is developed.
- 3. All training provided by corporate must be fully costed and budgeted prior to authorisation of the training.
- 4. All training must consider internal competencies to deliver training before seeking external providers.
- 5. Training must include consideration of opportunities for continuing professional development, including project management and finance for non-financial personnel.
- 6. Proposed training provided by corporate must be approved by the GM E&A.

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### **Operations / Cost Control**

### 1. USE OF THE COMPLIANCE DATABASE

**Purpose:** The Compliance Database is the tool used by the Company to establish accountabilities, record compliance outcomes and monitor compliance with statutory approvals. The Compliance Database includes all environmental approvals (EIS, development consent, EPL, water licenses etc) and is a subset of the overall database.

Co-Ordinator: Environment Coordinators, Environment Specialists

**Process:** The following steps in this process are:

- 1. The Environment Coordinator will enter into the Compliance Database all conditions of approval, including, the project description and existing operations described in the EIS, development consent, Environmental Protection License, Water Licenses and any other environmental approval relevant to the site.
- 2. Where a Standard for the Compliance Database has been developed for the Company, the Environmental Coordinator will follow that Standard, in addition to the requirements of this BMF.
- 3. The Environmental Coordinator will ensure the relevant documentation supporting each entry is included in the Database.
- 4. The Environmental Coordinator will establish a Process Improvement Team that includes site based personnel (identified in consultation with the Mine Manager) and the Group Environment Manager and Group Approvals Manager to:
  - a) Identify the relevant accountabilities under each environmental approval, including the existing and proposed activities contained within the EIS, including timing and relevant accountabilities
  - b) Identify the measures required to achieve compliance with each approval condition
  - c) Identify the systems/tools to be used to achieve compliance with each approval condition, including existing data management systems and the GIS
  - d) Establish a documented process to assess and review the risks and opportunities, including operational synergies, within each approval
  - e) Identify real time or other cost effective monitoring opportunities
  - f) Ensure compliance with the Company's monitoring and management framework
  - g) Where identified, establish service agreements (as per the process outlined under Establishment of Environmental Contracts within this BMF) with necessary and relevant technical specialists (following the process outlined under Internal Decision Making)

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- h) Establish a site based auditing, review and reporting of compliance status, actions required and delays experienced (including how delays will be managed and non-compliances dealt with)
- 5. The Environmental Coordinator will become the Process Improvement Team Leader.
- 6. The Process Improvement Team Leader selects members of the Process Improvement Team (members are to be representative of the varying operations/projects, and include engineering support)
- 7. Duties of the Process Improvement Team Leader include those identified on **page 24** of this BMF. The duties of the Technical Specialist are the same as the duties of the Environment Coordinator for this section of the BMF.
- 8. Compliance will be reported on a weekly, monthly and quarterly basis by the Environment Coordinator as required by this BMF.

### 2. ROLE OF THE WATER SPECIALIST

**Purpose:** The key function of this role is to understand the implications of water licensing, water quality objectives and water management practices for the mining industry and provide expertise to ensure optimal outcomes without compromising environmental and operational requirements.

**Co-Ordinator:** Water Specialist

- 9. The Coordinator must undertake a review of the current operational status of water licensing (under the Water Management Act, POEO Act and EP&A Act) across the group
- 10. The Coordinator must provide an overview of the current status of water policy and regulation at both a State and Federal government level
- 11. The Coordinator must undertake a gap analysis, drawing on previous audits, reviews and licensing arrangements, of the water licensing and quality status of the group.
- 12. The Coordinator must develop and maintain positive internal and external working relationships with the EPA, NOW and Department of the Environment, Environmental Coordinators, Mine Managers and Engineers.
- 13. The Coordinator must review adherence to existing Centennial standards and guidelines relating to water management.
- 14. The Coordinator must develop a management strategy in accordance with the requirements outlined in this section of the BMF.

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# 3. ROLE OF THE BIODIVERSITY AND LAND MANAGEMENT SPECIALIST

**Purpose:** The key function of this role is to understand the implications of biodiversity offsetting, biodiversity objectives and land management practices for the mining industry and provide expertise to ensure optimal outcomes without compromising environmental and operational requirements.

Co-Ordinator: Biodiversity and Land Management Specialist

- 1. The Coordinator must undertake a review of the current operational commitments for biodiversity, land management and cultural heritage across the group. This includes commitments within EIS, EA, development consent, approval from other government agencies (DoE, OEH), land access/compensation agreements, Management Plans, Positive Covenants, Annual Reviews.
- 2. The Coordinator must provide an overview of the current status of biodiversity and cultural heritage policy and regulation at both a State and Federal government level. This will include consideration of the Biodiversity Reform Agenda, Hawke Review (DoE), Biodiversity Offset Policy, Threatened Species Conservation Act and the EPBC Act.
- 3. The Coordinator must provide an overview of the current status of research programs and other programs across the group, including the performance of the Research Program under the Enforceable Undertaking, Newnes Plateau research programs and the Strategic Land Assessment.
- 4. The Coordinator must undertake a gap analysis, drawing on previous audits, reviews and licensing arrangements, of the biodiversity, cultural heritage and land management status of the group.
- 5. The Coordinator must develop and maintain positive internal and external working relationships with the OEH, DPE and Department of the Environment, Environmental Coordinators, Mine Managers and Engineers.
- 6. The Coordinator must develop and maintain positive relationships with key stakeholder groups including Native Title holders, Aboriginal stakeholder groups, Colong Foundation, Blue Mountains Conservation Society, Lithgow Environment Group, Rural Fire Service, Capertee Progress Association, LT Creek Sustainable Neighbourhood, Mandalong Community Association, Lake Macquarie Bushfire Management Committee, Lake Macquarie Estuary Management Committee, NSWMC industry working groups for biodiversity reform and cultural heritage reform, Inglenook Community Consultative Committee and other stakeholders interested in biodiversity, cultural heritage and land management activities of Centennial's operations.
- 7. The Coordinator must review adherence to existing Centennial standards and guidelines relating to biodiversity and land management.
- 8. The Coordinator must develop a management strategy in accordance with the requirements outlined in this section of the BMF.

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### 4. ROLE OF THE REHABILITATION AND MINE CLOSURE SPECIALIST

**Purpose:** The key function of this role is to understand the implications of mine closure and rehabilitation and closure objectives for the mining industry and provide expertise to ensure optimal outcomes without compromising environmental and operational requirements.

Co-Ordinator: Rehabilitation and Mine Closure Specialist

#### Process:

- The Coordinator must undertake a review of the current operational commitments for rehabilitation and mine closure. This includes rehabilitation and mine closure activities approved under EIS/EA, commitments for rehabilitation and mine closure within EIS, EA, development consent, Mining Operations Plans, Annual Environmental Management Reports, Annual Reviews, Management Plans, Rehabilitation Liability.
- The Coordinator must provide an overview of the current status of rehabilitation and mine closure and regulation at a State government level. This will include consideration of the requirements for rehabilitation under the Mining Act, Environmental Planning and Assessment Act and supporting approvals.
- 3. The Coordinator must undertake a gap analysis, drawing on previous audits, reviews and licensing arrangements, of the rehabilitation and mine closure status of the group.
- 4. The Coordinator must develop and maintain positive internal and external working relationships with the Department of Resources and Energy, Environmental Coordinators, Mine Managers, Mine Accountants and Engineers.
- 5. The Coordinator must review adherence to existing Centennial standards and guidelines relating to rehabilitation and mine closure.
- 6. The Coordinator must develop a management strategy in accordance with the requirements outlined in this section of the BMF.

# 5. THE ROLE OF THE ENVIRONMENTAL MANAGEMENT SYSTEMS SPECIALIST

**Purpose:** The key function of this role is to ensure systems are in place for the collection, analysis and reporting of environmental data and developing, implementing and auditing environmental management systems to ensure compliance with company, government and community expectations.

Co-ordinator: Environmental Management Systems Specialist

### **Process:**

 The Coordinator must undertake a review of the current environmental management system and supporting standards and guidelines. This includes commitments in development consents and the use of ECD, GIS, Compliance Database, Actions Required Database, HSEC Alerts, EMMA. This review includes consideration of gaps in system functionality and gaps in relevant documentation for the management of environmental matters.

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- 2. The Coordinator must provide an overview of the current status of data collection and monitoring systems across the group, including contractors used, frequency of data collection, data collected and compliance with minimum government requirements.
- 3. The Coordinator must undertake a gap analysis, of the utilisation of system resources across the group.
- 4. The Coordinator must develop and maintain positive internal working relationships with Environmental Coordinators, Mine Managers, Mine Accountants and Engineers.
- 5. The Coordinator must review adherence to existing Centennial standards and guidelines.
- 6. The Coordinator must develop a management strategy in accordance with the requirements outlined in this section of the BMF.



# 6. STRATEGIC RISK PROCESS IMPROVEMENT TEAMS (STRATEGIC PLAN)

**Purpose:** To facilitate continuous process improvement in the strategic management of environmental risks across the group.

Co-ordinators: GEM, GAM

- 1. The relevant Technical Specialist will develop a management strategy for their speciality that provides for:
  - a) Greater understanding of the environment within which we operate
  - b) Assessment of the risks and opportunities, including operational synergies, within the speciality area
  - c) Real time or other cost effective monitoring opportunities
  - d) Utilisation of existing data management systems, including the GIS
  - e) Compliance with the Company's monitoring and management framework
  - f) Service agreements with necessary and relevant technical specialists (following the process outlined under Internal Decision Making)
  - g) Auditing, review and reporting of strategy progress, actions and delays
- 2. The Technical Specialist will use the Centennial Coal Improvement Model (CCIM) Guideline to develop the management strategy.
- The Technical Specialist will use the Centennial Coal Change Management Standard (MS005) to
  ensure the management strategy is appropriately change managed. The completed change
  management must be submitted as a document for management review in accordance with this
  BMF.
- 4. The relevant Technical Specialist will become the Process Improvement Team Leader.
- 5. The Process Improvement Team Leader selects members of the Process Improvement Team (members are to be representative of the varying operations/projects, and include engineering support)
- 6. Duties of the Process Improvement Team Leader include:
  - a) Establish frequency of the PIT meetings
  - b) Establish a meeting agenda and scope of the PIT meetings
  - Receive and collate input and feedback from the relevant personnel for discussion at the PIT meetings

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- d) Identify areas of possible process improvement and actions required for the work area
- e) Establish a PIT process for the distribution of minutes of meetings and updates of process improvement actions
- f) Develop mechanisms for the dissemination of information to the GMEA, GEM, GAM and Mine Manager
- g) Compile a monthly report to the Coordinator, for distribution to the GMEA and senior management team
- h) To avoid confusion, a strategic plan will be development for process improvements in:
  - Water
  - Biodiversity, Land Management and Cultural Heritage
  - Rehabilitation and Mine Closure
  - Environmental Management Systems
  - Approvals (framework and manual)
  - Monitoring and management (framework, guidelines and contracts)

### 7. INTERNAL DECISION MAKING PROCESS

**Purpose:** To ensure a consistent process for seeking and receiving internal decision regarding environment and approvals matters is followed.

Co-ordinators: All team members

- 1. Each team member is to review the Centennial Environmental Procedure for Internal Decision Making and prepare a memo using the decision making template on matters that require management decisions (these matters are outlined in that Procedure). The memo template can be found under Templates in Doc1.
- 2. The relevant team member must create a folder in the Doc One System that will store all correspondence relating to the matter using identifiers that include the site name and required decision. This folder is created under the Fassifern Library.
- 3. Access to the created folder must include CEY Legal, General Manager Environment and Approvals, Group Environment Manager, Group Approvals Manager, Executive General Manager Operations, Executive General Manager Engineering and Projects, Executive General Manager Risk and Compliance, the relevant mine site personnel
- 4. The memo must include a recommended strategy for mitigating the risks identified in the memo to an acceptable level. Where this is not possible, a clear explanation as to why must be included on the memo.

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- 5. The relevant team member is to forward the completed memo to the Group Environment Manager or the Group Approvals Manager for review and inclusion in the Documents for Senior Management Review in the Weekly Report.
- 6. The Group Approvals Manager and/or Group Environment Manager will forward the memo to the General Manager Environment and Approvals, for discussion with the Executive General Manager Risk and Compliance / Executive General Manager Engineering and Projects in preparation for a decision and/or presentation at the weekly senior management team meeting.
- 7. Following presentation of the memo to the senior management meeting by the relevant Executive General Manager, the decision will be recorded and filed with the memo and other supporting documentation in Doc1 (this will include as a minimum the appropriate CAPEX/MOPEX form, budget sheet using the environment template and, where required, external peer review reports)
- 8. The senior management decision will be communicated to the Group Environment Manager/Group Approvals Manager as soon as practical following the senior management meeting.
- 9. Ensure a copy of the memo and supporting decision is filed in Doc1.
- 10. Ensure any actions identified within the memo are documented in the Compliance Database.

### 8. ESTABLISHMENT OF ENVIRONMENTAL CONTRACTS

**Purpose:** To ensure a consistent approach to the engagement of environment and approval services across the group. To ensure a process is in place and followed for the competitive sourcing of services for the company. To ensure qualified and competent personnel are engaged for the delivery of services.

Co-ordinators: All team members

- 1. Where an existing group wide contract is in place for environmental services, that contract must be used.
- 2. All environmental services must be procured under a contract or, where the service lies within the Procurement Rules and Guidelines, with written agreement on Centennial's Purchase Order Terms and Conditions. No work is to be undertaken using consultant/contractor terms and conditions.
- 3. Each team member is to review the Centennial Environmental Procedure for Internal Decision Making and prepare a memo using the decision making template on matters that require management decisions (these matters are outlined in that Procedure).
- 4. If the proposed service is not currently provided under a group contract, the site environmental coordinator must consult with the Group Environment Manager and/or the Group Approvals Manager.
- 5. The site environmental coordinator must prepare a memo that includes a review of the need for the service to be provided, the extent to which the service can be provided for the group, the resources required to implement the contract, the Principal's Representative for the contract, the

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budget where resourcing for the contract will be costed, feedback from the site consultation process and other supporting documentation (this will include as a minimum the appropriate CAPEX/MOPEX form, budget sheet using the environment template).

- 6. The relevant team member is to forward the completed memo to the Group Environment Manager or the Group Approvals Manager for review.
- 7. If supported by the relevant Group Manager, that Group Manager will forward the memo to the General Manager Environment and Approvals in consultation with the Executive General Manager Risk and Compliance for decision.
- 8. Following the decision, a copy will be recorded and filed with the memo and other supporting documentation (this will include as a minimum the appropriate CAPEX/MOPEX form, budget sheet using the environment template and, where required, external peer review reports)
- 9. Where a site raises a CEA for environmental work, the CEA hierarchy must include the Group Environment Manager and/or Group Approvals Manager.
- 10. Where a site raises a Purchase Order for environmental work, the REQ hierarchy must include the Group Environment Manager and/or Group Approvals Manager.
- 11. The relevant team member will establish a Process Improvement Team (including a member of the Contracts Team) as per section 1 above for the development and implementation of the relevant contract.
- 12. No environmental or approvals contracts will be entered into by the Company unless this process is followed.
- 13. The relevant team member will report in the weekly report the status of contract development.

### 9. STRATEGIC INITIATIVES

**Purpose:** To ensure strategic initiatives are developed for a one year and five year plan, adequate resources are in place to meet the initiatives and reporting against the initiatives is undertaken in accordance with this BMF.

Co-ordinators: All team members

- Strategic initiatives for 2016 have been set for key risk areas as outlined in the table below.
- 2. All team members must ensure activities undertaken within their area of responsibility align to the strategic plan and key performance indicators.

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Initiative Area	Strategic Initiative for 2016	
Environment	Develop, communicate and implement regional management plans (air, noise, water, biodiversity, cultural heritage)	
	Auditing, reviewing and communicating outcomes of compliance with internal environment standards	
	Investigate opportunities for continuing professional development	
	Develop and implement meaningful automated reports to satisfy environmental understanding, corporate accountability and site needs	
Water	Develop a water management standard/guideline that follows the Project Evaluation Standard for 2016 LOM planning process	
	Develop, communicate and implement regional water management plans	
	Develop a water training package for different levels of the business	
	Develop a guideline for obtaining and registering of water licenses across the group	
Biodiversity and Land Management	Develop a surface disturbance process that is linked to GIS and change management	
Rehabilitation and Mine Closure	Develop and implement strategy to achieve a 10% reduction each year in rehabilitation footprint for 5 years	
	Develop a life of mine, mine closure plan (following the Project Evaluation Standard) for 2016 LOM planning process	
	Develop a company template for rehabilitation plan, MOP inspections, completion criteria, landform and drainage design	
	Develop a mine closure training package for different levels of the business	
Environmental Management Systems	Investigate, review and propose options for data management	
management dystems	Review and update standards/guidelines/management system	
	Develop guidance around the Integrated Mining Policy	
	Transition to Google Mail	

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Initiative Area	Strategic Initiative for 2016	
Environmental Approvals	Review and update approval standards/guidelines/templates; consider Integrated Mining Policy requirements	
	Develop and implement an approvals training program; post approval communication strategy; 'one pager approval limits'	
	Incorporate baseline data collected during EIS process into data management systems (eg GIS), including development approvals	
	Undertake detailed analysis of internal voluntary audit and develop action plan	
Stakeholder Engagement	Develop and implement site, regional and company wide stakeholder consultation and engagement plans that support the environment and approvals teams undertake activities outlined in the BMF	
	Undertake socio - economic impact assessments as required to ensure social risk is understood and effectively managed across environment and approvals activities	
	Review and update the Company's Stakeholder Management Standard, including practice framework for consulting and engaging with external stakeholders in order to effectively manage social risk	

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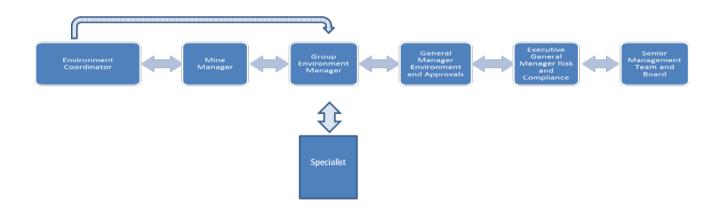
### **People and Communication**

### 1. COMMUNICATION PATHWAY

**Purpose:** To clearly define the pathway of communication of environment and approval matters within the company.

Coordinator: All team members

- 1. Communications within the Environment team must follow the below pathway.
- 2. Communication with corporate services (eg external affairs, legal, contracts, engineering) must first be supported by (if applicable to a site, the site Mine Manager and then), the relevant Group Manager Environment/Approvals.
- 3. Where a corporate service is required to support the environment and/or approval team, the process outlined in Internal Decision Making must be followed.
- 4. All communication and documentation with corporate services must be recorded in Doc1.



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### 2. INCIDENT NOTIFICATION PROTOCOLS

**Purpose:** To ensure appropriate resources are allocated to the management of environmental incidents

Co-ordinator: GM E&A

#### **Process:**

- 1. Initiation of the Site Pollution Incident Response Management Plan must be undertaken in accordance with the requirements of that Plan.
- 2. Upon notification of a significant environmental incident requiring the initiation of the Corporate Significant Incident Response Manual, the GM E&A will initiate the relevant protocols included in that Manual
- 3. The GM E&A will coordinate in accordance with CIMOS MS012 External Environmental Reporting Standard the reporting requirements post initial incident notification.

### 3. TEAM LEAVE PROCESS

**Purpose:** Ensure adequate resources are allocated to work loads when staff take leave. Ensure that adequate leave is available and the leave requested is approved prior to commencement of leave.

Co-ordinator: GEM, GAM

- 1. Every member of the environment and approvals team has their own responsibility to ensure they provide relevant documentation for off site training and personal leave.
- 2. Forms are located on Doc One
- 3. Forms are to be submitted to their direct report for approval (Mine Manager, GEM/GAM)
- 4. Site based Environment Coordinators will submit a copy of their approved leave form to the GEM to ensure adequate coverage of environmental responsibilities is understood and approved.
- 5. Leave is to be added to the Group Environment Calendar in Lotus Notes.
- 6. Leave definitions/types are included in the company Leave Policy

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### 4. WEEKLY ENVIRONMENT AND APPROVALS REPORT

**Purpose:** To provide relevant internal stakeholders with an update of the environmental and approvals matters across the group.

Co-ordinators: All team members

**Process:** The steps required in this process are:

- 1. A group wide weekly report template has been established in Doc1.
- 2. All team members are required to complete the relevant section of the report by close of business Thursday.
- 3. The weekly report includes:
  - a) Past Week CCCs, CCCs in the next week
  - b) Past week PAC meetings, PAC meetings in the next week
  - c) Documents for consultation with senior management in the coming week, as per the Internal Decision Making Process documented in this BMF.
  - d) Dashboard results
  - e) For each operation and project/approval
    - 1. Activities undertaken the previous week
    - 2. Activities planned for the next week
    - 3. Issues (by exception)
    - 4. Correspondence in or out with regulators/community
  - f) For each Technical Speciality
    - 1. Activities undertaken the previous week against key deliverables according to approved Strategy
    - 2. Activities planned for the next week against key deliverables
    - 3. Delays to achieving deliverables, including a plan detailing how the delay will be managed
    - 4. Correspondence in or out with regulators/community
- 4. The report is compiled by the GM E&A for distribution to the Executive General Managers and CEO by 9am each Monday.

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### 5. MONTHLY ENVIRONMENT REPORT

**Purpose:** To provide relevant internal stakeholders with an overview of the environmental and approvals matters across the group.

Co-ordinators: All team members

**Process:** The steps required in this process are:

- 1. Site based monthly report templates are available in the ECD.
- 2. All team members are required to complete their monthly report by close of business of the 3<sup>rd</sup> business day following the end of the month.
- 3. The group monthly report includes:
  - a) Dashboard summary
  - b) Report on significant incidents
  - c) Report on significant environmental matters requiring senior management review
  - d) Documents for senior management review and status (Approved, Declined, Pending and the reasons why)
  - e) Report on environmental approval status and delay management
- f) The group monthly report is compiled by the GM E&A for distribution to the Executive General Managers and CEO by the 5<sup>th</sup> business day following the end of the month.

### 6. QUARTERLY BOARD HSEC COMMITTEE MEETING

**Purpose:** To provide the Centennial Coal and Banpu Board with an overview of the environmental and approvals matters across the group.

Co-ordinators: GM E&A

**Process:** The steps required in this process are:

1. In February each year, the GM E&A reviews the Annual Agenda and allocates agenda items to relevant environmental personnel according to the following table.

Agenda Item	Responsibility	Frequency
Environmental performance	GEM	Quarterly
Environment Approvals	GAM	Quarterly
Community and Stakeholder	GEM and GAM	Quarterly
Environmental Annual Returns	GEM	Meeting after annual
		returns are due
HSEC policy, strategies, management	GEM	Last meeting of the
systems review		year

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Agenda Item		Responsibility	Frequency
Benchmarking	environmental	GEM and GAM	Third meeting of the
performance			year

- 2. At least one (1) month prior to the next meeting date, the GAM/GEM provides the relevant report to the GM E&A for review
- 3. The GEM and/or GAM may delegate their responsibilities to relevant team members.
- 4. In regard to the environmental approvals, the following sections are submitted by the GM-E&A 3 weeks prior to the scheduled meeting date (meetings are set by the Committee Chair):
  - a) Summary of key issues
  - b) Approvals timelines and issues, including the latest version of the approvals dashboard
  - c) Relationship with the regulator, including issues raised and the management and mitigation strategies adopted; including review of the latest approval decisions (approved and refused) for implications to Centennial and management and mitigation strategies adopted.
  - d) Strategic risks and mitigation
- 5. In regard to the environmental performance, the following sections are submitted by the GM E&A 3 weeks prior to the scheduled meeting date (meetings are set by the Committee Chair)
  - a) Statistical performance
  - b) Serious incidents/exceedences
  - c) Investigations and their follow-up
  - d) EMS implementation
  - e) Audit program
  - f) Training and assessment
  - g) Contractor management
  - h) Corporate standards development
  - i) Operational and industry matters
  - j) Relationship with regulator
  - k) Strategic risks

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- I) Any recommendations for action or strategic issues relating to Environment performance
- m) Any other matter identified by the Committee

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### **Continuous Improvement**

### 1. BUSINESS IMPROVEMENT

**Purpose:** To maintain a focus on the key deliverables under the environment and approvals strategic plan, develop strategies for licence to operate and identify key strategic environmental and social risks and opportunities for operations and projects.

Co-ordinator: General Manager Environment and Approvals

**Process:** The steps in this process are:

- The General Manager Environment and Approvals, Group Environment Manager and Group Approvals Manager will meet in the first week of May each year for a strategic planning session. This session will draw on the outcomes of annual reporting under the BMF.
- 2. Each team member will undertake a Business Improvement Project that aligns with the Strategic Plan. A Process Improvement Team will be formed as per the process outlined in this BMF.
- 3. A Process Improvement Plan will be developed in accordance with the process outlined in this BMF.
- 4. The General Manager Environment and Approvals approves the Process Improvement Plan and seeks support from the Executive General Manager Risk and Compliance for input into relevant business plan(s) and budget(s).
- 5. The relevant team member will report weekly and monthly against the Process Improvement Plan as per the requirements of this BMF.

### 2. BUSINESS MANAGEMENT FRAMEWORK REVIEW

Purpose: To ensure the BMF is reviewed on an annual basis.

**Co-ordinator:** General Manager Environment and Approvals

**Process:** The steps in the process are:

- 1. In October each year the Coordinator initiates this process of BMF review.
- 2. This review will include consideration of performance against each element of the BMF, performance against KRAs, performance against plan and may include input from other areas of the business in the review.
- 3. The Coordinator will circulate the updated BMF for review by the environment and approval team.
- 4. A new BMF will be in place by 1 January each year.

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# 3. PERFORMANCE REVIEW AND PERFORMANCE MANAGEMENT

**Purpose:** To ensure performance against relevant role descriptions and the requirements of the BMF are reviewed on an annual basis.

Co-ordinator: General Manager Environment and Approvals, GEM, GAM

**Process:** The steps in the process are:

- 1. By the 31 January each year, the relevant manager will meet with and set the Key Result Areas for the reporting year. These KRAs will be SMART (specific, measurable, achievable, result orientated and time constrained).
- 2. KRAs for team members are reviewed by the General Manager Environment and Approvals for sign off.
- 3. Within 2 weeks of the end of each quarter, the relevant manager will review progress against the KRAs. Where progress is not consistent with expectations, the management strategies outlined in the Centennial Coal Performance Management Guidelines and Procedures Manual will be initiated.
- 4. The on line performance management system will be used to measure and monitor team performance.

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