

**Baralaba  
North  
Continued  
Operations  
Project**

**Environmental  
Impact  
Statement**

**SECTION 1**

**INTRODUCTION**



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## 1 INTRODUCTION

This Environmental Impact Statement (EIS) assesses the proposed Baralaba North Continued Operations Project (herein referred as the BNCOP) and the potential cumulative impacts arising from its development in combination with the existing and approved operations in the immediate vicinity (i.e. Baralaba Coal Mine and approved Baralaba North/Wonbindi North Mine), and in the region (i.e. the Dawson Mine and other elements of the Baralaba Expansion Project including the proposed Baralaba South Project and proposed train load-out [TLO] facility near Moura).

### 1.1 PROJECT PROPONENT

The Proponent for the BNCOP is Cockatoo Coal Limited (CCL) (ABN: 13 112 682 158).

The registered office and postal address for CCL is:

Level 4, 10 Eagle Street  
BRISBANE QLD 4000

CCL is listed on the Australian Stock Exchange (ASX) (ASX Code: COK) and is a metallurgical coal producer with projects in the Bowen Basin, Galilee Basin and Surat Basin in Central Queensland (Qld).

CCL is the owner of the existing Baralaba Coal Mine and the approved Baralaba North/Wonbindi North Mine. The Baralaba Coal Mine and Baralaba North/Wonbindi North Mine are managed by CCL's subsidiaries Baralaba Coal Pty Ltd (Suitable Operator Reference: 339270) and Wonbindi Coal Pty Ltd (Suitable Operator Reference: 558800).

#### **Joint Venture Structure**

Baralaba Coal Pty Ltd is a 62.5 percent (%) owned subsidiary of CCL (through Cockatoo Coal Pty Ltd), with the remaining 37.5% owned by JFE Shoji Trade Corporation (JFE Shoji) (through JS Baralaba Wonbindi Pty Ltd [JSBW]).

Wonbindi Coal Pty Ltd is an 80% owned subsidiary of CCL, with the remaining 20% owned by JFE Shoji (through JSBW).

#### **Environmental Record**

CCL has adhered to its regulatory responsibilities in association with its exploration and mining operations. CCL has not been the subject of any environmental legal proceedings that have resulted in fines or prosecution.

#### **Environmental Policy**

CCL has in place an Environmental Policy and is currently developing an integrated Environmental Management System across all operations to ensure consistent environmental management across the business.

CCL maintains a team of appropriately qualified environmental personnel to ensure compliance with current legislation and environmental planning frameworks.

#### **Health and Safety Policy**

CCL has in place a Health and Safety Policy describing the company's commitments to create a workplace free from injury and harm.

#### **Community Policy**

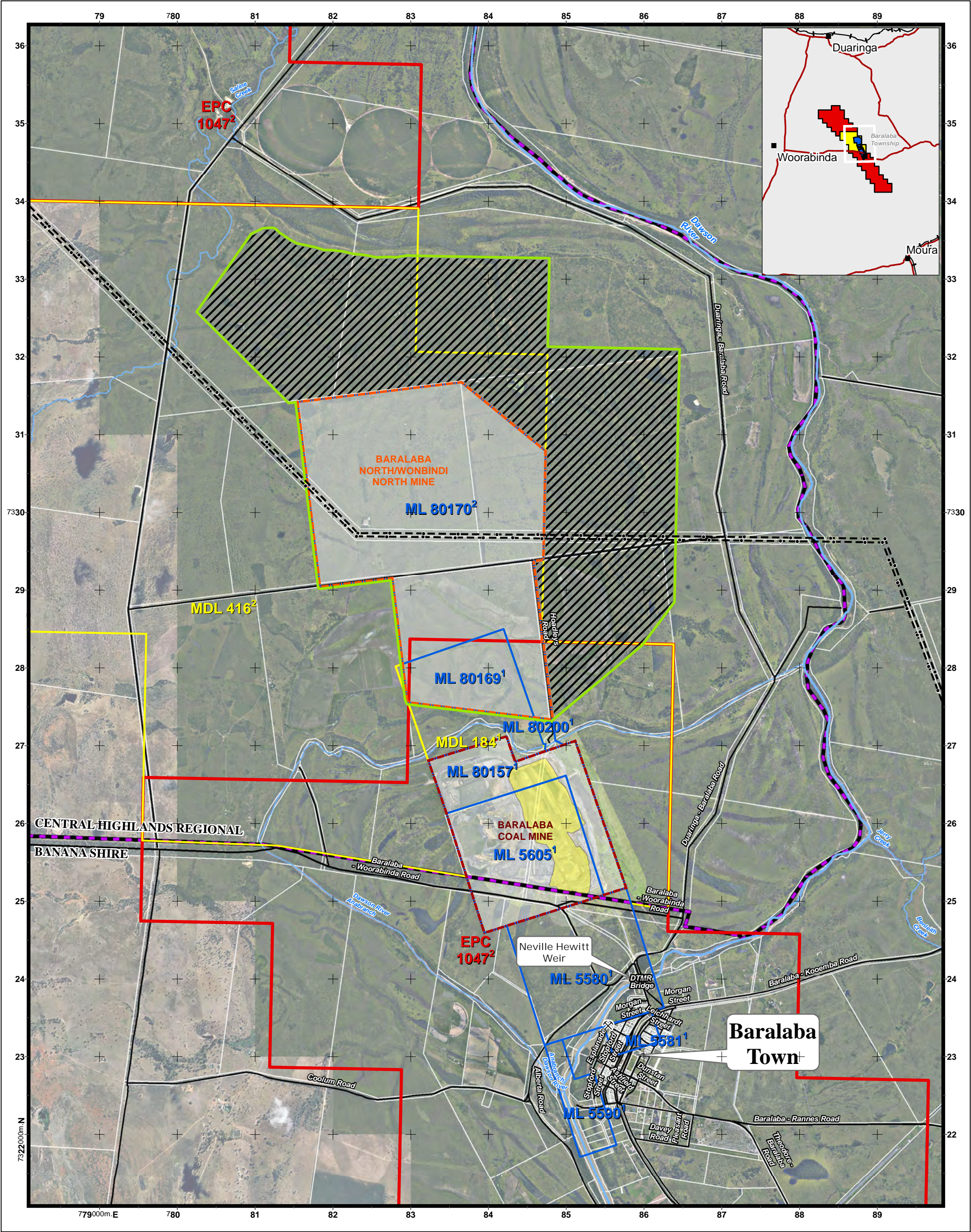
CCL has in place a Community Policy which describes the company's commitments to build and maintain respectful relationships with all stakeholders in the communities in which operations occur at all times. The Community Policy is dated 24 June 2013.

A copy of each of CCL's environmental, health and safety and community policies (dated 24 June 2013) is provided at the end of this section.

### 1.2 PROJECT DESCRIPTION

The BNCOP provides for the continuation and expansion of open cut coal mining and introduction of processing activities at the existing Baralaba Coal Mine (Mining Lease [ML] 80157 and ML 5605) and the approved Baralaba North/Wonbindi North Mine (ML 80169 and ML 80170) (Figure 1-1).

A summary comparison of the existing Baralaba Coal Mine and approved Baralaba North/Wonbindi North Mine with the BNCOP components is provided in Table 1-1.



<div>PROJECT</div> <div>BARALABA NORTH CONTINUED OPERATIONS PROJECT</div>		<div>DISCLAIMER:</div> <div>Cockatoo Coal Ltd has exercised all due care in the production of this map. Cockatoo Coal Ltd makes no warranty or representation to the client or third parties (expressed or implied) in respect to the information conveyed on this map, particularly with regard to any commercial investment decision made on the basis of this map. Use of this map by the client or third parties shall be at their own risk, and extracts from this map may only be published with the permission of Cockatoo Coal Ltd.</div>			<div><div><div><div></div></div><div>N</div></div><div><div>0</div><div>500</div><div>1,000</div><div>1,500</div><div>2,000</div></div><div><div></div><div>Metres</div></div></div>		<div>DATA SOURCES:</div> <div>VECTOR DATA:</div> <div>© DERM - LAND &amp; PROPERTY DATA</div> <div>© GEOSCIENCE AUSTRALIA.</div> <div>PUBLICLY ACCESSIBLE DATA HAS BEEN INCORPORATED INTO THIS MAP (ACCREDITED ABOVE). COCKATOO COAL PROVIDES NO WARRANTY TO THE ACCURACY, COMPLETENESS OR CURRENCY OF THIS DATA.</div>			<div>NOTE:</div> <div>1: HELD BY BARALABA COAL PTY LTD</div> <div>2: HELD BY WONBINDI COAL PTY LTD</div> <div><div><div><div></div><div>Cockatoo Coal Limited</div></div></div></div>		
<div>TITLE</div> <div>Figure 1-1 The BNCOP and other Existing/Approved Operations in the Immediate Vicinity</div>		REV	DESCRIPTION	DATE	SCALE 1:45,000	CURRENT ISSUE SIGNATURES		<div>Legend</div> <div><div>Road</div><div>Watercourse</div><div>Powerline &amp; Power Pole</div><div>Local Government Area</div><div>Cadastral</div><div>Cockatoo Coal ML</div><div>Cockatoo Coal MDL</div><div>Cockatoo Coal EPC</div><div>Baralaba North/Wonbindi North Mine</div><div>Baralaba Coal Mine</div><div>Existing Operational Land</div><div>Baralaba Central Pit</div><div>BNCOP Area/Disturbance</div><div>Footprint</div><div>BNCOP Operational Land</div></div>			<div>STATUS</div> <div>FINAL</div>	
		0	Original map output	12/03/14	SIZE A3	DRAWN	MJS				<div>PROJECT NO</div> <div>Baralaba Nth</div>	
		1	Data Updates	12/03/14	DATUM GDA 94	CHECKED	BJD				<div>DRAWING NO</div> <div>BBN-092-01-02-140409</div>	
		2	Data Updates	09/04/14	PROJECTION MGA Zone 55	APPROVED	BJD					

**Table 1-1  
Project Summary**

<b>Project Component</b>	<b>Existing Baralaba Coal Mine and Approved Baralaba North/Wonbindi North Mine</b>	<b>Summary of the BNCOP</b>
ROM Coal Production	Run-of-mine (ROM) coal production up to approximately 750,000 tonnes per annum (tpa) from Baralaba Coal Mine and up to approximately 1 million tonnes per annum (Mtpa) from Baralaba North/Wonbindi North Mine.	ROM coal production up to approximately 4.1 Mtpa.
Mine Life	Mining operations for at least 15 years (i.e. until 2028) and up to 30 years.	Fifteen year operations providing approximately 2 years of further operational life (i.e. until 2030), at the increased production rate.
Mining Method	Conventional truck and shovel mining method. Progressive backfilling of mine voids with waste rock behind the advancing open cut mining operations, and where required, continued and expanded placement of waste rock in out-of-pit emplacements adjacent to the pit extents.	Conventional truck and shovel mining method. Progressive backfilling of mine voids with waste rock behind the advancing open cut mining operations, and where required, continued and expanded placement of waste rock in out-of-pit emplacements adjacent to the pit extents.
Mining Operation Hours	24 hours per day, seven days per week.	24 hours per day, seven days per week.
Coal Handling and Preparation	ROM coal hauled to existing ROM pad located on ML 5605. Dry coal screening only.	ROM coal hauled to existing and new ROM pads. Construction and use of a Coal Handling and Preparation Plant (CHPP) to achieve product specifications in line with market demand.
Product Coal Types	Pulverized coal injection (PCI) product and several grades of thermal coal.	Increased proportions of high quality low volatile PCI product (up to 100%) and thermal coal.
Product Coal Transport	Product coal haulage using AB triple road-trains along Middle Road (a network of public roads including Theodore-Baralaba Road) to the existing product coal stockpiles and TLO facility, located approximately 10 kilometres (km) east of Moura, and then transported by rail to the Port of Gladstone.	Road transport of up to 3.5 Mtpa product coal (using AB triple and AAB quad road-trains) along Middle Road to the existing product coal stockpiles and TLO facility, or new product coal stockpiles and TLO facility (subject to separate approvals being in place), and then transported by rail to the Port of Gladstone.
Mine Infrastructure Areas	Administration and maintenance facilities on ML 5605.	Upgrade of administration and maintenance facilities at the Baralaba Coal Mine and establishment of new mine infrastructure areas.
Mine Access	Public access via connection to the Baralaba-Woorabinda Road.	Continued public access via connection to the Baralaba-Woorabinda Road and a new access road connecting the Duaringa-Baralaba Road to the new mine infrastructure areas including CHPP.
Water Supply	The current sources of water include (excluding potable water supplies): <ul style="list-style-type: none"> <li>mine water supplied from pit dewatering (including groundwater inflows);</li> <li>surface runoff water captured and stored within the mine water dam; and</li> <li>water supply 'make-up' sourced directly from the Dawson River as required via a licensed agreement.</li> </ul>	Water would be supplied according to the following priority (excluding potable water supplies): <ul style="list-style-type: none"> <li>mine water supplied from pit dewatering (including groundwater inflows);</li> <li>recycled process water recovered from the CHPP;</li> <li>surface runoff water captured and stored within the mine water dam and process water dam; and</li> <li>water supply 'make-up' sourced directly from the Dawson River as required via a licensed agreement.</li> </ul>
Flood Management	Design 1:1000 Annual Exceedance Probability (AEP) flood levees.	Design 1:1000 AEP flood levees (or sufficiently robust spoil dumps acting as flood levees) and erosion protection levees.
Workforce and Employment	Approximately 135 people currently employed at the Baralaba Coal Mine.	Secures employment for the 135 people currently employed at the Baralaba Coal Mine. The proposed future workforce for the BNCOP is up to approximately 430 people (at peak). At full development, the BNCOP operational workforce would be in the order of 380 on-site personnel, including a mixture of direct CCL employees and contractors.

The main activities associated with the development of the BNCOP would include:

- ROM coal production up to 4.1 Mtpa for 15 years (commencing approximately 1 April 2015 or upon grant of all required approvals), including mining operations associated with:
  - continued development of the Baralaba North pit; and
  - extension of the Baralaba North pit to the north within mineral development licence (MDL) 416 held by Wonbindi Coal Pty Ltd<sup>1</sup>;
- road transport of up to 3.5 Mtpa of product coal (using AB triple and/or AAB quad road-trains) along Middle Road (a network of private and public roads including Theodore-Baralaba Road) to the product coal stockpiles and TLO facility located approximately 10 km east of Moura, or new product coal stockpiles and TLO facility located approximately 3 km east of Moura (subject to separate approvals being in place); and
- use of existing and/or new product coal stockpiles and TLO facility for loading of product coal to trains for transport by rail and export via Gladstone (subject to separate approvals being in place).

Each of the abovementioned components are described in detail in Section 2.

### 1.3 THE ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

This section details the environmental impact assessment process and outlines any opportunities for input and participation, including how and when a properly made submission on the EIS will be addressed and taken into account.

An outline of the project approvals process is described in Section 1.5.2.

#### 1.3.1 Objectives of the EIS

This EIS has been prepared to fulfil the requirements of an EIS in accordance with the provisions of the *Environmental Protection Act 1994* (Qld) (EP Act) and the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act). Importantly, the EIS has been prepared to provide all the information needed to enable the issuing of an Environmental Authority (EA) for the BNCOP.

<sup>1</sup> Note that Mining Lease Application (MLA) 80201 was accepted over the area which applies to the BNCOP Operational Land within MDL 416 on 1 April 2014.

The objectives defined in the Environmental Protection Regulation 2008 (Qld) (EP Regulation) to be met under the EP Act are prescribed in the Final Terms of Reference (ToR) (Attachment 1) for the BNCOP (Section 1.7) and are outlined in Sections 3 and 4.

#### 1.3.2 How to Make a Public Submission

In accordance with sections 51 and 52 of the EP Act, if the Qld Department of Environment and Heritage Protection (DEHP) provide CCL with a notice that the EIS may proceed, CCL will:

- provide written notice about this EIS to each identified affected person, interested person and other advisory agency/group (Tables 1-2, 1-3 and 1-4, respectively) decided by the chief executive (i.e. Director-General of the DEHP);
- publish the notice in a newspaper circulating in the locality of the operational land (e.g. *Central Telegraph*) along with *The Courier Mail* and *The Australian* inviting submissions from the general public; and
- make a copy of this EIS available on a website (e.g. [www.baralabacoal.net.au](http://www.baralabacoal.net.au)).

Copies of the EIS will be made available for inspection at several locations including, but not necessarily limited to, the following:

Department of Environment and Heritage  
Protection  
Floor 3, 400 George Street  
BRISBANE QLD 4000

Department of Environment and Heritage  
Protection  
Ground Floor, 136 Goondoon Street  
GLADSTONE QLD 4680

Central Highlands Regional Council  
Administration Centre  
Corner Egerton and Borilla Streets  
EMERALD QLD 4720

Banana Shire Council  
Administration Office  
Gillespie Street  
MOURA QLD 4718

Cockatoo Coal Limited  
Level 4, 10 Eagle Street  
BRISBANE QLD 4000

Baralaba Mine Community Office  
27 Stopford Street  
BARALABA QLD 4702

**Table 1-2**  
**Affected Persons Identified for the BNCOP**

<b>Affected Person(s)/Party</b>	<b>Address(es)</b>	<b>Description</b>
<b><i>Native Title Act 1993 (Cth)</i></b>		
Gaangalu Nation People	C/- Frank Mannix D&G Lawyers PO Box 1830 AITKENVALE QLD 4814	Registered Native Title Claim (QC12/9-1 Gaangalu Nation)
<b><i>Local Government</i></b>		
Central Highlands Regional Council	PO Box 21 EMERALD QLD 4720	Relevant local government authority for the BNCOP Operational Land
<b><i>Freehold/Leasehold/State Land Owners</i></b>		
Property owners	'Willeroo' BARALABA QLD 4702	<i>Operational Land</i> Lot 7 KM44  <i>Adjoining Land</i> Lot 6 KM44 Lot 2 SP235019 Lot 3 SP235019
	'Dawson Dell' BARALABA QLD 4702	<i>Operational Land</i> Lot 11 KM46
	'Coominglah' BARALABA QLD 4702	<i>Operational Land</i> Lot 13 KM182 Lot 14 KM183 Lot 26 KM256  <i>Adjoining Land</i> Lot 15 KM183
	PO Box 80 BARALABA QLD 4702	<i>Operational Land</i> Lot 9 KM45 Lot 1 RP814083
	'Anabank' BARALABA QLD 4702	<i>Operational Land</i> Lot 10 KM45  <i>Adjoining Land</i> Lot 5 KM154
	'Anabank' BARALABA QLD 4702	<i>Adjoining Land</i> Lot 2 RP814083
	MS 914 MOURA QLD 4718	<i>Adjoining Land</i> Lot 24 RP620666 Lot 25 RP620666
<b><i>Easement Holders</i></b>		
Central Highlands Regional Council	PO Box 21 EMERALD QLD 4720	Duaringa-Baralaba Road Hoadleys Road Other Minor Roads/Laneways Dawson River Anabranh
Powerlink Queensland	PO Box 1193 VIRGINIA QLD 4014	Lot A RP616373 Lot C RP616373 Lot B KM238 Lot A KM195 Lot A KM196 Lot A KM201 Lot B KM252
<b><i>Coal Tenement Holders</i></b>		
Queensland Coking Coal Pty Ltd	Unit 1/13 Manilla Street EAST BRISBANE QLD 4169	EPC 1237
<b><i>Petroleum Tenement Holders</i></b>		
Arrow Energy Pty Ltd	GPO Box 5262 BRISBANE QLD 4001	EPP 831
OME Resources Australia Pty Ltd	Level 30, 275 George Street BRISBANE QLD 4000	ATP 758

EPC - Exploration Permit for Coal.

EPP - Exploration Permit for Petroleum.

**Table 1-3**  
**Interested Persons Identified for the BNCOP**

<b>Interested Person(s)</b>	<b>Address(es)</b>
Local Government - Banana Shire Council	PO Box 412 BILOELA QLD 4715
	34 Gillespie Street MOURA QLD 4718
Qld Government - Department of Environment and Heritage Protection (DEHP)	GPO Box 2454 BRISBANE QLD 4001
	PO Box 413 ROCKHAMPTON QLD 4700
Qld Government - Department of Natural Resources and Mines (DNRM)	GPO Box 2454 BRISBANE QLD 4001
Qld Government - Department of Transport and Main Roads (DTMR)	GPO Box 1412 BRISBANE QLD 4001
	PO Box 1787 EMERALD QLD 4720
	PO Box 62 MACKAY QLD 4740
Product Coal Road Transport Route Property Owner	Lot 1 RP616586 Lot 3 RP909511 Lot 41 FN508
Product Coal Road Transport Route Property Owner	Lot 1 SP119855
Product Coal Road Transport Route Property Owner	Lot 39 FN508 Lot 40 FN508
Product Coal Road Transport Route Property Owner	Lot 26 FN399
Product Coal Road Transport Route Property Owner	Lot 1 SP128480
Product Coal Road Transport Route Property Owner	Lot 2 RP128480 Lot 3 RP128480
Product Coal Road Transport Route Property Owner	Lot 3 FN207 Lot 1 RP620104 Lot 31 FN193 Lot 12 CP895590
Product Coal Road Transport Route Property Owner	Lot 10 FN207
Product Coal Road Transport Route Property Owner	Lot 31 FN138 Lot 32 FN138
Product Coal Road Transport Route Property Owner	Lot 34 FN217 Lot 15 FN217
Product Coal Road Transport Route Property Owner	Lot 27 FN153
Product Coal Road Transport Route Property Owner	Lot 26 FN153 Lot 135 FN143 Lot 2 RP801031 Lot 9 RP620647
Product Coal Road Transport Route Property Owner	Lot 1 RP801031
Product Coal Road Transport Route Property Owner	Lot 102 SP107139
Product Coal Road Transport Route Property Owner	Lot 1 SP131479
Product Coal Road Transport Route Property Owner	Lot 11 SP131479
Product Coal Road Transport Route Property Owner	Lot 118 SP126061
Product Coal Road Transport Route Property Owner	Lot 51 MPH14611
Product Coal Road Transport Route Property Owner	Lot 2 SP183303
Product Coal Road Transport Route Property Owner	Lot 140 FN137 Lot 141 FN137
Product Coal Road Transport Route Property Owner	Lot 77 FN312 Lot 78 FN153 Lot 11 FN153

**Table 1-3 (Continued)**  
**Interested Persons Identified for the BNCOP**

<b>Interested Person(s)</b>	<b>Address(es)</b>
Product Coal Road Transport Route Property Owner	Lot 33 FN138
Product Coal Road Transport Route Property Owner	Lot 3 FN198
Product Coal Road Transport Route Property Owner	Lot 1 CP895590
Product Coal Road Transport Route Property Owner	Lot 2 RP620104
Product Coal Road Transport Route Property Owner	Lot 18 FN208
Product Coal Road Transport Route Property Owner	Lot 20 FN208
Product Coal Road Transport Route Property Owner	Lot A AP4392 Lot B AP4392
Product Coal Road Transport Route Property Owner	Lot 3 RP883984 Lot 4 RP883984
Product Coal Road Transport Route Property Owner	Lot 1 RP614144 Lot 4 RP616065
Product Coal Road Transport Route Property Owner	Lot 6 FN180
Product Coal Road Transport Route Property Owner	Lot 7 SP118885
Reserve for Crossing Road	Lot 43 FN176

**Table 1-4**  
**Other Advisory Agencies/Groups Identified for the BNCOP**

<b>Other Advisory Agencies/Groups</b>	<b>Address(es)</b>
Department of the Environment (DotE)	GPO Box 787 CANBERRA ACT 2601
Department of State Development, Infrastructure and Planning (DSDIP)	PO Box 15009 CITY EAST QLD 4002
Department of Energy and Water Supply (DEWS)	GPO Box 1401 BRISBANE QLD 4001
Department of Local Government, Community Recovery and Resilience	PO Box 15009 BRISBANE QLD 4002
Department of Housing and Public Works	GPO Box 690 BRISBANE QLD 4001
Department of Sciences, Information Technology, Innovation and the Arts (DSITIA)	GPO Box 5078 BRISBANE QLD 4001
Department of Aboriginal and Torres Strait Islander and Multicultural Affairs (DATSIMA)	PO Box 15397 CITY EAST QLD 4002
Department of National Parks, Recreation, Sport and Racing	PO Box 15187 CITY EAST QLD 4002
Department of Tourism, Major Events, Small Business and the Commonwealth Games	PO Box 15168 CITY EAST QLD 4002
Department of Natural Resources and Mines (DNRM)	GPO Box 806 MACKAY QLD 4740
Department of Agriculture, Fisheries and Forestry (DAFF)	GPO Box 46 BRISBANE QLD 4001
Department of Environment and Heritage Protection (DEHP)	PO Box 3028 EMERALD QLD 4720
	PO Box 5065 GLADSTONE QLD 4680

**Table 1-4 (Continued)**  
**Other Advisory Agencies/Groups Identified for the BNCOP**

Other Advisory Agencies/Groups	Address(es)
Department of Education, Training and Employment (DETE)	LMB 527 GPO BRISBANE QLD 4001
	PO Box 15168 CITY EAST QLD 4002
	PO Box 15033 CITY EAST QLD 4002
Queensland Health	PO Box 946 ROCKHAMPTON QLD 4700
Department of Community Safety	GPO Box 1425 BRISBANE QLD 4001
QR National	GPO Box 448 BRISBANE QLD 4001
Enterprise Whitsundays	PO Box 479 CANNONVALE QLD 4802
SunWater Limited	PO Box 15536 CITY EAST QLD 4002
Construction, Forestry, Mining and Energy Union	PO Box 508 SPRING HILL QLD 4004
Department of Justice and Attorney General	PO Box 820 LUTWYCHE QLD 4030
Queensland Treasury and Trade	GPO Box 611 BRISBANE QLD 4001
Department of Public Safety Business Agency	GPO Box 1440 BRISBANE QLD 4001
Road Accident Action Group	PO Box 6835 MACKAY MAIL CENTRE QLD 4741
Mackay Conservation Group	PO Box 826 MACKAY QLD 4740
Fitzroy Basin Association	PO Box 139 ROCKHAMPTON QLD 4700
Capricorn Conservation Council	PO Box 4011 ROCKHAMPTON QLD 4700

Properly made written submissions in relation to this EIS will be invited from any person and must be received within the EIS submission period. The commencement and conclusion dates for the EIS submission period will be prescribed in the notice.

A properly made submission is one that:

- is written;
- is signed by or for each person ("signatory") who made the submission;
- states the name and address of each signatory;
- is made to the chief executive; and
- is received on or before the last day of the EIS submission period.

EIS submissions should be addressed to:

The Chief Executive  
 Department of Environment and Heritage  
 Protection  
 GPO Box 2454  
 BRISBANE QLD 4001

Attention: The EIS Coordinator  
 (Baralaba North Continued  
 Operations Project)

or by emailing [eis@ehp.qld.gov.au](mailto:eis@ehp.qld.gov.au).

It is a statutory requirement for all submissions to be forwarded to CCL so that each submission can be considered and a response provided by CCL to the DEHP. This EIS, public submissions and CCL's responses to the public submissions will be taken into account in the decision-making process.

Additional detail on the Environmental Impact Assessment process is provided in Attachment 2. For further information regarding the Environmental Impact Assessment process, contact the EIS Coordinator on 13 QGOV (13 74 68) or email [eis@ehp.qld.gov.au](mailto:eis@ehp.qld.gov.au).

## 1.4 PUBLIC CONSULTATION PROCESS

Consultation with key Qld State Government agencies, specifically in relation to the BNCOP, commenced in September 2013. CCL continues to consult with relevant Government agencies on a regular basis in relation to its current mining operations at the Baralaba Coal Mine, Baralaba North/Wonbindi North Mine and other Baralaba projects.

The public consultation process has been undertaken cognisant of the requirements in Preparing an Environmental Impact Statement Guideline for Proponents (DSDIP, 2013).

A Public Consultation Report is provided in Appendix M of this EIS. A summary of the public consultation process conducted by CCL prior to the EIS lodgement and proposed post EIS lodgement is described below.

### 1.4.1 Prior to EIS Lodgement

A chronology of key consultation points with the public up to lodgement of the EIS, including government agencies, property owners and the community in general, is summarised below.

#### September 2013

- **11 September 2013** – Pre-lodgement meeting for the BNCOP held with the DEHP.
- **20 September 2013** – Community Bulletin (including invitation to attend the Community Information Sessions) distributed and made available on a website (e.g. [www.baralabacoal.net.au](http://www.baralabacoal.net.au)).
- **20 September 2013** – Letter sent to Banana Shire Council providing briefing material, invitation to attend the Community Information Sessions and requesting an opportunity to meet and present an overview of the BNCOP.
- **23 September 2013** – Letter sent to Central Highlands Regional Council providing briefing material, invitation to attend the Community Information Sessions and requesting an opportunity to meet and present an overview of the BNCOP.

- **23 September 2013** – Application to prepare a voluntary EIS for the BNCOP submitted with supporting Project Description to the DEHP.
- **24 September 2013** – One-on-one meetings held with local landowners (including affected persons).

#### October 2013

- **8 October 2013** – Meeting held with DNRM to discuss the groundwater investigation program, groundwater modelling and assessment approach for the BNCOP EIS.
- **14 October 2013** – Community Information Session held at RSL Community Hall in Baralaba.
- **15 October 2013** – Community Information Session held at Kianga Community Hall in Moura.
- **16 October 2013** – Meeting held with the Banana Shire Council Mayor and Councillors to provide an overview of the BNCOP.
- **18 October 2013** – Pre-lodgement meeting for the BNCOP held with the DotE.
- **20 October 2013** – Attendance at Qld Government Community Cabinet Meeting in Emerald to brief the Deputy Premier, Ministers and Directors-General about the BNCOP.
- **21 October 2013** – Referral for the BNCOP under the EPBC Act submitted to the DotE.
- **24 October 2013 to 7 November 2013** – Invitation for public comment on the EPBC Act Referral for the BNCOP.
- **29 October 2013** – Progress meeting held with DEHP to discuss the status of the approval to prepare a voluntary EIS for the BNCOP and Draft ToR requirements.
- **29 October 2013** – Discussions held with members of the local community for the BNCOP Non-Indigenous Cultural Heritage Assessment.

#### November 2013

- **5 November 2013** – Notice of Decision received from the DEHP granting approval to prepare a voluntary EIS.

### December 2013

- **2 to 5 December 2013** – As part of the Social Impact Assessment undertaken for the BNCOP (Appendix M), meetings and discussions were held with the following stakeholders:
  - Banana Shire Council;
  - Baralaba State School;
  - Moura Chamber of Commerce and Progress Association;
  - Queensland Ambulance Service;
  - Queensland Police Service;
  - Middle Road Land Holders;
  - Baralaba Multipurpose Health Service;
  - Baralaba Community Aged Care Association;
  - Central Highlands Regional Council;
  - Baralaba Resident Action Group;
  - Landcare; and
  - Woorabinda Aboriginal Shire Council.
- **12 December 2013** – Controlled Action decision under the EPBC Act received from the Commonwealth DoE.
- **13 December 2013** – Draft ToR for the BNCOP and prescribed fee submitted to the DEHP.

### January 2014

- **January 2014** – Establishment of Community Advisory Group (CAG):
  - Cnr Nev Ferrier – Chair;
  - Maureen Clancy – Banana Shire Council;
  - Jerome Winslade – Baralaba Police;
  - Robert Hoadley – Landholder;
  - Kim House – Landholder;
  - Steve Swan – Landholder;
  - Jocelyn Austin – Baralaba Aged Care;
  - Mina McGuire – Moura Progress and Chamber of Commerce Member; and
  - Polly Bromley (Local Business Owner).
- **13 January 2014** – A copy of the public notice with invitation for public comment on the Draft ToR for the BNCOP was provided to all affected and interested persons and other advisory agencies/groups (Tables 1-2, 1-3 and 1-4).

- **13 January 2014 to 24 February 2014** – Public notice published with invitation for public comment on the Draft ToR for the BNCOP.

### February 2014

- **4 February 2014** – Meeting with CAG was held to discuss progress of the BNCOP EIS (full meeting minutes provided in Attachment 3). Queries were raised in regards to:
  - the potential flood impacts due to levee bank construction; and
  - increased heavy traffic through Baralaba Township.
- **28 February 2014** – DEHP provided CCL with all submissions made on the Draft ToR. Submissions were received from the following government agencies, regional bodies and members of the community:
  - Aurizon;
  - Banana Shire Council;
  - Central Highlands Regional Council;
  - DoE;
  - DATSIMA;
  - DAFF;
  - Department of Communities, Child Safety and Disability Services;
  - DETE;
  - DEHP;
  - Department of Housing and Public Works;
  - Department of Justice and Attorney General;
  - Department of National Parks, Recreation, Sport and Racing;
  - DNRM;
  - DSDIP;
  - Department of Tourism, Major Events, Small Business and Commonwealth Games;
  - DTMR;
  - Fitzroy Basin Association;
  - Product Coal Road Transport Route Property Owner;
  - Powerlink Queensland;
  - Queensland Police Service; and
  - Queensland Treasury and Trade.

### March 2014

- **4 March 2014** – Meeting with CAG was held to discuss issues raised at previous meeting and progress of the BNCOP EIS. A site tour was also undertaken (full meeting minutes provided in Attachment 3). Queries were raised in regards to:
  - flood levee construction;
  - results of the air quality and greenhouse gas assessment (specifically potential impacts of dust); and
  - traffic and road transport.
- **7 March 2014** – CCL provided DEHP with responses to all submissions made on the Draft ToR and an amended ToR as a result of the submissions.
- **19 March 2014** – Meeting with product coal road transport route landholders was held to discuss the use of Middle Road for the BNCOP. Queries were raised in regards to:
  - impacts on safety, dust deposition, and fuel/oil leaks contamination to water sources due to road runoff;
  - floodway impacts due to haul route upgrade;
  - land devaluation;
  - air quality monitoring; and
  - issues with road maintenance.

### April 2014

- **1 April 2014** – Meeting with CAG was held to discuss progress of the BNCOP EIS (full meeting minutes provided in Attachment 3). Queries were raised in regards to:
  - groundwater and surface water impacts due to the BNCOP and TLO facility (subject to separate assessment and approval); and
  - air quality and noise monitoring and predicted impacts.
- **2 April 2014** – Final ToR issued by DEHP and public notice published.
- **10 April 2014** – Meeting with DEHP prior to lodgement of the EIS.

### 1.4.2 Post EIS Lodgement

As described in Section 1.3.2, if the DEHP provide CCL with a notice that the EIS may proceed, CCL will give written notice to each identified affected person, interested person and other advisory agency/group (Tables 1-2, 1-3 and 1-4) decided by the chief executive (i.e. Director-General of the DEHP).

After giving written notice, CCL will publish the notice with invitation for public comment and make a copy of the EIS available on a website (e.g. [www.baralabacoal.net.au](http://www.baralabacoal.net.au)).

Copies of the EIS will be made available for inspection at several locations (Section 1.3.2). Additional copies (e.g. DVD) of this EIS can be obtained by contacting CCL on (07) 4998 1611.

Additional detail on the Environmental Impact Assessment process including public consultation post EIS lodgement is provided in Attachment 2.

## 1.5 PROJECT APPROVALS

### 1.5.1 Relevant Legislation and Policy Requirements

Table 1-5 provides a summary of the legislative requirements (e.g. approvals and agreements) for the BNCOP to be constructed and operated.

Some elements listed in Table 1-5 are subject to separate assessment and approval.

Additional detail on the project approvals process before construction can commence is provided in Attachment 2.

### 1.5.2 Project Approvals Process

This EIS is the key document supporting approval under the EP Act, *Mineral Resources Act 1989* (Qld) (MR Act) and EPBC Act. The key steps involved in obtaining approval for the BNCOP (including the EIS preparation and approval process) are outlined below and illustrated in Figures 1-2 and 1-3.

Further details regarding the project approvals process is provided in Attachment 2.

**Table 1-5**  
**Summary of Relevant Legislative Requirements**

Legislation	Administering Authority	Relevance to the BNCOP
<b>Commonwealth Legislation</b>		
<i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)	DotE	The BNCOP was determined to be a Controlled Action on 12 December 2013.  The potential impacts of the BNCOP on the Matters of National Environmental Significance (MNES) protected by controlling provisions will be assessed under DEHP's EIS process. That process is accredited under the bilateral agreement (section 45 of the EPBC Act) between the Commonwealth and Qld Governments. Accordingly, assessment under Part 8 of the EPBC Act is not required for the BNCOP.
<i>National Greenhouse and Energy Reporting Act 2007</i> (NGER Act)	DotE	CCL triggers the threshold value relevant to greenhouse gas emissions (50 kilotonnes per annum) (section 13[1] of the NGER Act). As such CCL would register on the National Greenhouse and Energy Register, which is administered by the Greenhouse and Energy Data Officer.
<b>State (Qld) Legislation</b>		
<i>Environmental Protection Act 1994</i> (EP Act)  Environmental Protection Regulation 2008 (EP Regulation)  Environmental Protection (Waste Management) Regulation 2000 (EPR Waste)	DEHP	CCL would lodge an Application to Amend an EA once the EIS Assessment Report has been issued. The EA for the BNCOP would provide approvals for the Environmentally Relevant Activities (ERAs) (listed under the EP Regulation) relevant to the BNCOP.  CCL would prepare a Plan of Operations to be submitted to DEHP at least 20 business days prior to commencement of any mining activities.  CCL would obtain a Regulated Waste Transport Licence and Waste Tracking Certificate for the transport of regulated (trackable) waste listed in Schedule 1 of the EPR Waste.
<i>Mineral Resources Act 1989</i> (MR Act)	DNRM	A ML would be required under the MR Act for the BNCOP Operational Land within MDL 416, EPC 1047, and EPC 1237. CCL will lodge a MLA for these areas with the Qld Mining Registrar.  CCL would also comply with the notifiable road use regime as set out in Chapter 10 of the MR Act in relation to haulage associated with the BNCOP.  The granting of the ML for BNCOP is conditional upon CCL entering into co-development agreements with holders of petroleum leases (Arrow Energy Pty Ltd and OME Resources Australia Pty Ltd) under section 318CB of the MR Act.
<i>State Development and Public Works Organisation Act 1971</i> (SDPWO Act)	DSDIP	The BNCOP is a component of CCL's Baralaba Expansion Project which was declared a 'Prescribed Project' pursuant to section 76E of the SDPWO Act on 31 July 2013 by the Qld Minister for State Development, Infrastructure and Planning.
<i>Water Act 2000</i>  Water Resource (Fitzroy Basin) Plan 2011  Fitzroy Basin Resource Operations Plan 2011	DNRM	CCL currently holds 400 ML (median priority – Zone M), 50 ML (high priority – Zone D) and 50 ML (median security – Zone D) of volumetric licence water allocation from the Dawson River under the <i>Water Act 2000</i> , which are applied and operated in accordance with the Water Resource (Fitzroy Basin) Plan 2011 and Fitzroy Basin Resource Operations Plan 2011.  The existing water management systems at the Baralaba Coal Mine and Baralaba North/Wonbindi North Mine would be progressively augmented as water management requirements change over the life of the BNCOP.

**Table 1-5 (Continued)**  
**Summary of Key Legislative Requirements**

Legislation	Administering Authority	Relevance to the BNCOP
<b>State (Qld) Legislation (Continued)</b>		
<i>Nature Conservation Act 1992</i> (NC Act) Nature Conservation (Protected Plants) Conservation Plan 2000 Nature Conservation (Wildlife Management) Regulation 2006	DEHP	CCL would comply with the NC Act requirements, by preparing a Species Management Program (under section 332 of the Nature Conservation [Wildlife Management] Regulation 2006) as the BNCOP would disturb animal breeding places. The Species Management Program must be approved by the DEHP.
<i>Explosives Act 1999</i>	DNRM	CCL would obtain authorities to possess, store and use explosives in accordance with the <i>Explosives Act 1999</i> .
<i>Aboriginal Cultural Heritage Act 2003</i> (ACH Act)	DATSIMA	CCL has entered into a Cultural Heritage Investigation Management Agreement, covering the BNCOP area, with the Gaangalu Nation which was approved as a Cultural Heritage Management Plan under the ACH Act on 12 August 2013.
<i>Transport Operations (Road Use Management) Act 1995</i>	DTMR	The use of Middle Road for coal haulage would be through existing and amended (as required) public road use agreements with Banana Shire Council and the DTMR.
<i>Transport Infrastructure Act 1994</i> (TI Act) Transport Infrastructure (State-controlled Roads) Regulation 2006	DTMR	CCL would obtain Ancillary Works and Encroachment Approvals for State-controlled Roads required for transport of coal to the TLO facility. CCL would also obtain approval to interfere with a railway corridor. These approvals are subject to separate assessment.
<i>Strategic Cropping Land Act 2011</i> (SCL Act)	DNRM	CCL has been granted a Strategic Cropping Land (SCL) Protection Decision under section 99 of the SCL Act. CCL will comply with the requirements of SCL Protection Decision SCLRD2013/000161.  CCL has lodged a SCL Protection Decision Application for the additional areas of SCL within the BNCOP Disturbance Footprint.  The SCL Act will be repealed under the Regional Planning Interests Bill 2013.
<i>Waste Reduction and Recycling Act 2011</i>	DEHP	A Beneficial Use of Waste Approval is required for any waste (as per the definition of waste in section 13 of the EP Act) that is to be re-used or recycled at the BNCOP.
<i>Sustainable Planning Act 2009</i> (SP Act) Sustainable Planning Regulation 2009 Banana Shire Planning Scheme 2005	DSDIP Central Highlands Regional Council	In accordance with Schedule 4 - Table 5, Item 2 of the Sustainable Planning Regulation 2009, works conducted on a ML are exempt from assessment under the SP Act.  Development approvals under the SP Act may be required for any works to be carried out on local government roads in association with the BNCOP. CCL would obtain all relevant approvals and comply with the <i>Local Government Act 2009</i> (Qld) and any relevant local laws in respect of these works.
<i>Petroleum Act 1923</i>	DNRM	Co-development agreements between CCL and the holders of the petroleum tenements (Figure 2-18) would be developed as part of CCL's larger Baralaba Expansion Project. These agreements would include the processes required to resolve any issues associated with co-existing coal mining and coal seam gas extraction including any interactions with oil/gas pipelines.
<b>Policies, Provisions, Codes and Standards</b>		
Banana Shire Planning Scheme 2005	Banana Shire Council	CCL would obtain an Operational Works Permit from the Banana Shire Council to allow for access into the Dawson Highway overpass. This permit is subject to separate assessment and approval.

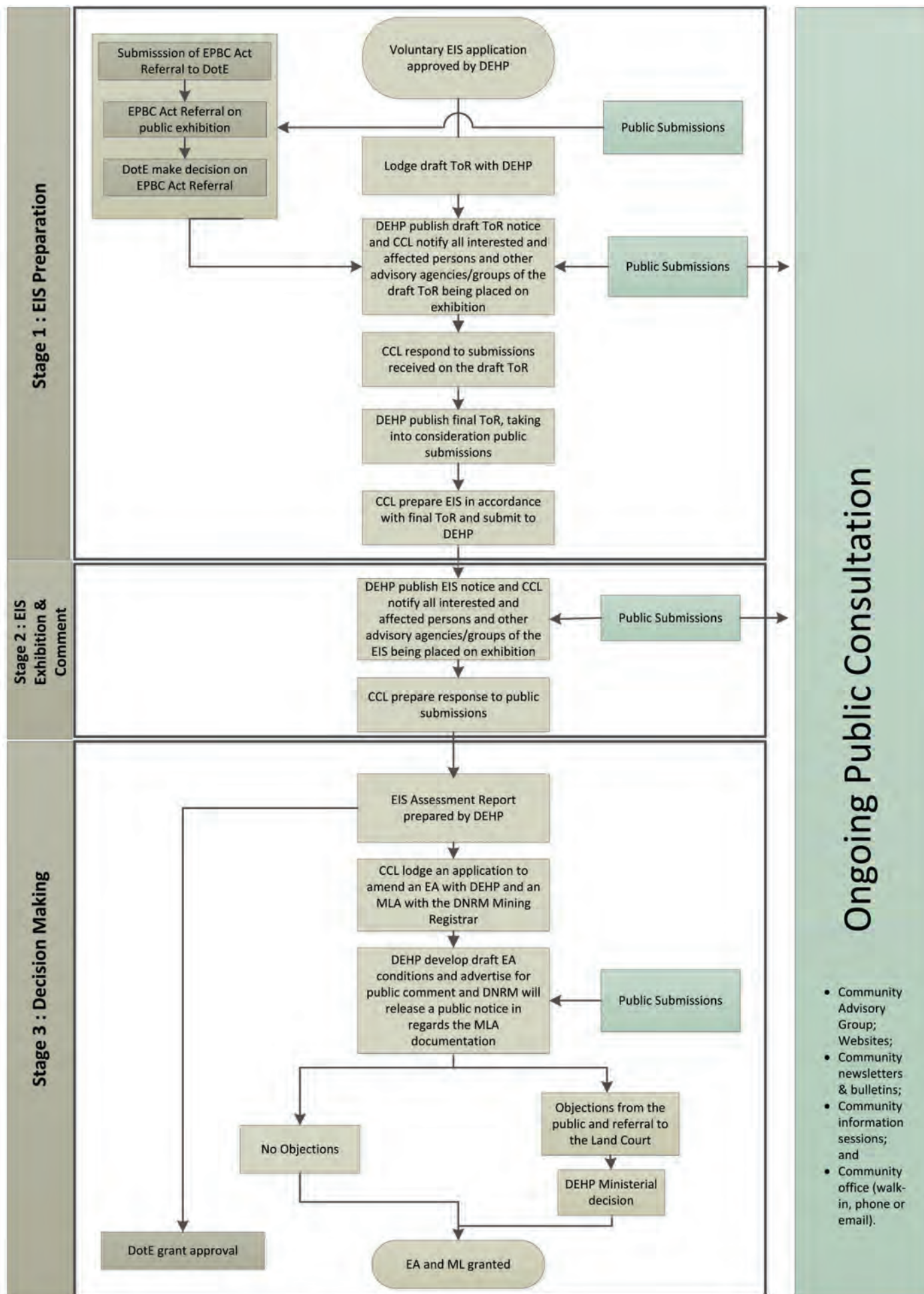
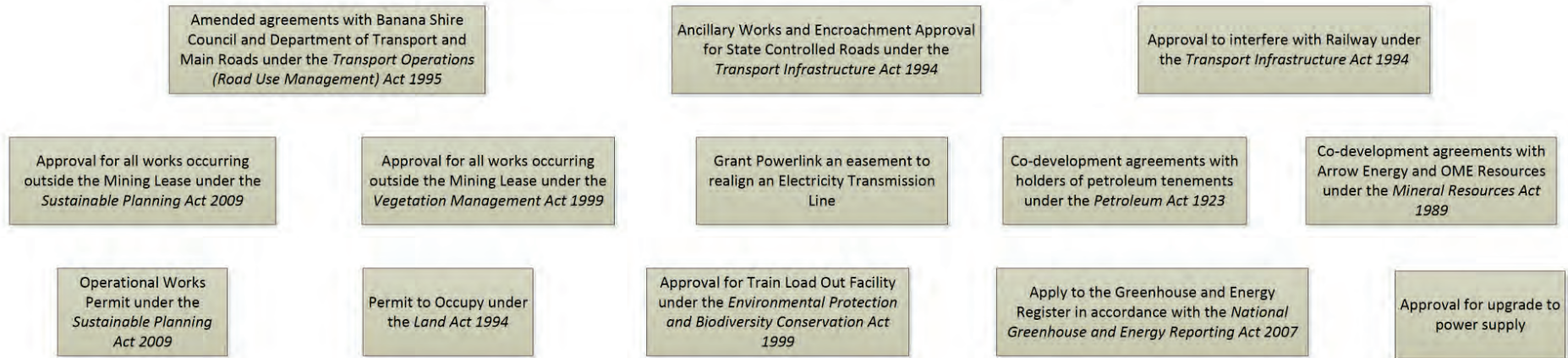
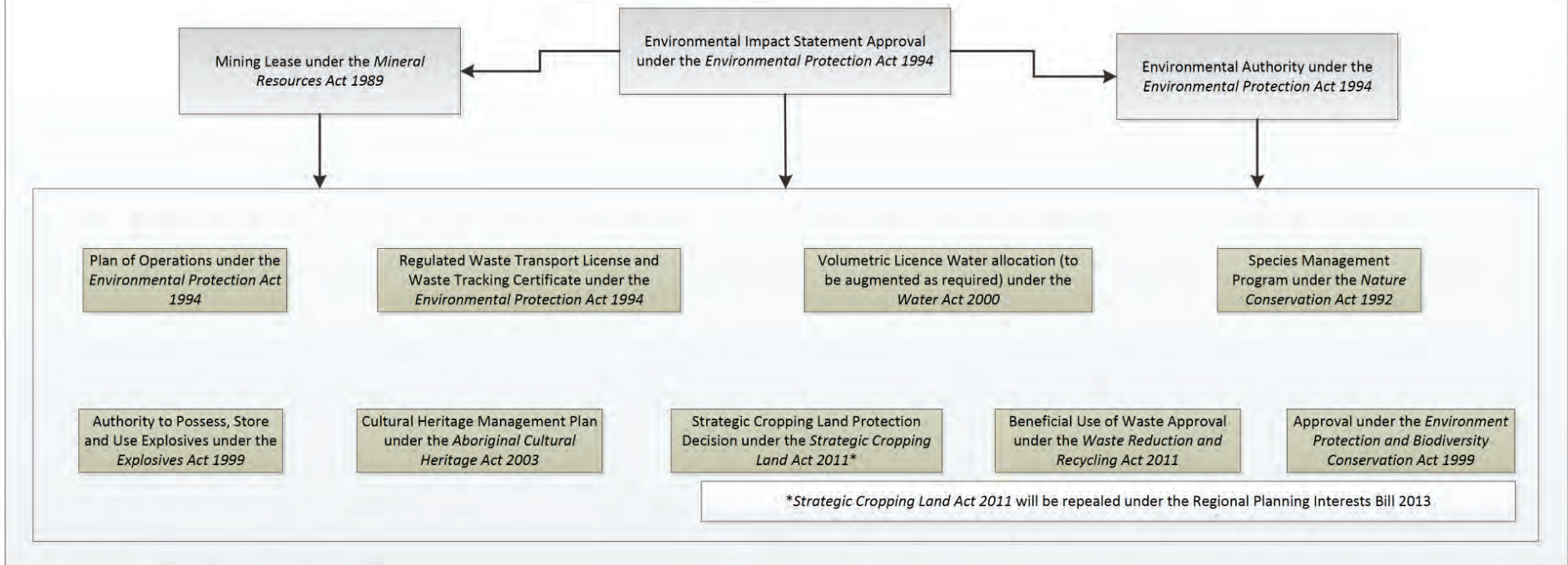


Figure 1-2 Environmental Impact Assessment Process

### Baralaba Expansion Project (Prescribed Project under the SDPWO Act)



### Baralaba North Continued Operations Project



**Figure 1-3 Key Approvals Flowchart**

### **Voluntary EIS**

On 5 November 2013 the DEHP approved CCL's application to prepare a voluntary EIS under section 72 of the EP Act.

### **Assessment of Significance under the EPBC Act**

The BNCOP was referred to the DotE under the EPBC Act on 21 October 2013. On 12 December 2013 the BNCOP was determined to be a Controlled Action. DotE advised that the bilateral assessment under section 45 of the EPBC Act applies to the BNCOP.

### **Terms of Reference**

CCL submitted the Draft ToR to the DEHP for review and public comment, in accordance with section 41 of the EP Act, on 13 December 2013. The Draft ToR was placed on public exhibition from 13 January 2014 until 24 February 2014 and notices were placed in the *Central Telegraph* (a newspaper circulating in the locality of the operational land), the *Courier Mail* and *The Australian*.

All interested and affected persons and other advisory agencies/groups identified at that time were notified of the availability and location of the Draft ToR in accordance with sections 42 and 43 of the EP Act. DEHP provided CCL with all submissions made on the Draft ToR.

CCL provided a response to all issues raised in the submissions made on the Draft ToR and provided DEHP with the amended ToR as a result of the submissions.

DEHP published the Final ToR on 2 April 2014 under section 46 of the EP Act.

### **Preparation of the EIS**

CCL has prepared this EIS in accordance with the requirements of the Final ToR (Attachment 1). Technical assessment reports were prepared by relevant specialists to assist in determining the environmental impact of the BNCOP (technical assessments available in Appendices A to Q).

Peer reviews of all technical assessments identified in the Final ToR as critical matters were also undertaken (Attachment 4). The technical assessments are detailed in Section 1.8.

CCL intends to lodge a MLA with the Qld Mining Registrar prior to submission of the EIS. The MLA will be over part of the areas of MDL 416, EPC 1047 and EPC 1237.

This approach is subject to acceptance by the Qld Mining Registrar and should this not be accepted, then the process in Figure 1-2 will be followed.

### **Public Exhibition**

This EIS would be placed on public exhibition for a period of no less than 30 days and notices would be placed in the *Central Telegraph* (a newspaper circulating in the locality of the operational land), the *Courier Mail* and *The Australian*.

All interested and affected persons would be notified of the availability and location of the EIS in accordance with section 51 of the EP Act.

During this period the public would be able to comment on the EIS and make submissions to the DEHP. All submissions made on the EIS would be made available to CCL to provide an opportunity to respond and provide DEHP with any amendments to the EIS.

### **EIS Assessment Report**

DEHP will produce an EIS Assessment Report considering all submissions made on the EIS during the public consultation period. The EIS Assessment Report will assess the adequacy of the EIS in addressing the Final ToR and the EP Act standard criteria. DEHP will also make recommendations about the suitability of the BNCOP and recommend conditions that should form part of the approval.

CCL would lodge an Application to Amend an EA once the EIS Assessment Report has been issued.

### **Environmental Authority and MLA Exhibition**

DEHP will issue a draft EA for the BNCOP. The MLA documentation and draft EA decision would be advertised for a minimum of 20 business days. During this period the public may lodge objections to the draft EA and MLA.

### **EPBC Act Approval**

The BNCOP was referred to DotE for a decision on whether the BNCOP is a Controlled Action requiring approval under the EPBC Act. On 12 December 2013, DotE determined that the BNCOP is a Controlled Action, requiring approval under the EPBC Act. The controlling provisions for the BNCOP are sections 18 and 18A (listed threatened species and communities) and sections 24D and 24E (water resources).

The potential impacts of the BNCOP on MNES protected by those controlling provisions will be assessed under DEHP's Environmental Impact Assessment process. That process is accredited under the bilateral agreement (section 45 of the EPBC Act) between the Commonwealth and Qld Governments. Accordingly, assessment under Part 8 of the EPBC Act is not required for the BNCOP.

Following receipt of the DEHP EIS Assessment Report, the Commonwealth Minister would make an Approval Decision.

An EPBC Act Controlling Provisions Assessment is provided in Appendix Q.

### **Final Decision**

If there are no public objections, the ML and EA will be granted by DEHP.

If there are objections to the MLA and/or draft EA that cannot be resolved they will be referred to the Land Court of Qld. The application (ML and/or EA) will be granted or the application refused.

### **Ongoing Public Consultation**

In addition to the designated public consultation periods, consultation and input from the public will continue to be encouraged by CCL throughout the environmental impact assessment process. This will continue to be achieved through websites, community newsletters and bulletins, community information sessions, CAG and the CCL community office.

A Public Consultation Report is provided in Appendix M of this EIS.

## **1.6 ACCREDITED PROCESS FOR CONTROLLED ACTIONS UNDER COMMONWEALTH LEGISLATION**

CCL referred the BNCOP to the DotE (formerly the Commonwealth Department of Sustainability, Environment, Water Population and Communities [SEWPaC]) for a decision on whether it is a Controlled Action under the EPBC Act.

On 12 December 2013, the BNCOP was declared a Controlled Action under the EPBC Act (EPBC 2013/7036).

The controlling provisions for the BNCOP, with regard to its potential impacts on MNES are:

- sections 18 and 18A of the EPBC Act (listed threatened species and communities); and
- sections 24D and 24E of the EPBC Act (water resources).

The EIS has been prepared pursuant to the bilateral agreement between the Commonwealth and Qld Governments for the purposes of the Commonwealth Government's assessment under section 45 of the EPBC Act.

An EPBC Act Controlling Provisions Assessment is provided in Appendix Q of this EIS.

## **1.7 FINAL TERMS OF REFERENCE**

Following exhibition of the Draft ToR from 13 January to 24 February 2014 and CCL's response to all submissions made (dated 7 March 2014), the Final ToR for the BNCOP were issued by the DEHP on 2 April 2014 (Attachment 1).

A reconciliation summary of the Final ToR with reference to relevant sections of this EIS is provided in Table 1-6.

## **1.8 PROJECT CONSULTANTS**

This EIS was prepared by Resource Strategies Pty Ltd with specialist input provided by the following organisations and specialists:

- CCL (*project design, objectives and rationale, justification and consideration of alternatives, mine scheduling, resource economics, geological model, environmental risk review, hazards and safety analysis, public consultation, Indigenous cultural heritage liaison; rehabilitation, final landform and environmental monitoring and management commitments*);
- Cardno (*road transport assessment*);
- Coffey Environments (*social impact assessment*);
- Converge Heritage and Community (*non-Indigenous cultural heritage assessment*);
- Eco Logical Australia – Dr Peter Hancock (*stygo fauna assessment*);
- Environmental Earth Sciences – Dr Anna Sheldon (*contaminated land assessment*);

**Table 1-6**  
**Final Terms of Reference – Reconciliation Summary**

<b>Terms of Reference</b>	<b>Section of EIS</b>
1. General Approach	Noted
2. Mandatory Requirements of an EIS	Sections 1, 2, 3, 4, 5, 6, 7 and 8
3. Further Requirements of an EIS	Sections 1.4, 3, 4 and 6, Appendix M, and Attachment 2
4. Executive Summary	Executive Summary
5. Introduction	Section 1
5.1 Project Proponent	Section 1.1
5.2 The Environmental Impact Assessment Process	Section 1.3, and Attachment 2
5.3 Project Approvals Process	Section 1.5, and Attachment 2
6. Project Description	Section 2
6.1 Proposed Development	Sections 2.1 and 2.4
6.2 Site Description	Section 2.2
6.3 Climate	Section 2.3
6.4 Proposed Construction and Operations	Sections 2.4 to 2.8
7. Assessment of Critical Matters	Section 3
7.1 Critical Matters	Noted
7.2 Matters of National Environmental Significance	Sections 3.1, 3.2 and 3.3, Appendices A, B, C, D, F and Q, and Attachment 4
7.3 Flora and Fauna	Sections 3.1, 4.3 and 5, Appendices A, B, F, P and Q, and Attachment 4
7.4 Water Quality	Section 3.2, Appendices B, C, D, E, P and Q, and Attachment 4
7.5 Water Resources	Section 3.3, Appendices A, B, C, D, F, P and Q, and Attachment 4
7.6 Flooding and Regulated Dams	Sections 2.8 and 3.4, Appendices C, F and O, and Attachment 4
7.7 Air	Section 3.5, Appendices G, I and M, and Attachment 4
7.8 Noise and Vibration	Section 3.6, Appendices H and I, and Attachment 4
7.9 Transport	Section 3.7, Appendix I, and Attachment 4
8. Assessment of Routine Matters	Section 4
8.1 Routine Matters	Noted
8.2 Land	Sections 4.1, 4.2, 4.5 and 5, and Appendices J and K
8.3 Biosecurity	Sections 3.1 and 4.3, Appendices A, B and Q, and Attachment 2
8.4 Waste Management	Sections 3.2, 3.5.5 and 4.4, Appendix E, and Attachments 2 and 4
8.5 Cultural Heritage	Section 4.5, Appendix L, and Attachment 2
8.6 Social and Economic	Sections 4.6 and 4.7, Appendices M and N, and Attachment 3
8.7 Hazards and Safety	Section 4.8, Appendix O, and Attachment 2
9. Appendices to the EIS	Appendices A to Q
Acronyms and Abbreviations	Section 8
A1. Policies and Guidelines	Section 7
A2. Matters of National Environmental Significance	Sections 3.1, 3.2 and 3.3, Appendices A, B, C, D, F and Q, and Attachment 4

- frc environmental (*aquatic ecology assessment*);
- Gillespie Economics – Mr Rob Gillespie (*economic assessment*);
- Groundwater Exploration Services – Mr Andy Fulton (*groundwater investigation program*);
- Groundwater Imaging – Dr David Allen (*transient electromagnetic [TEM] survey*);
- HydroSimulations – Dr Noel Merrick (*groundwater modelling and assessment*);
- Marc & Co. (*visual simulations*);
- McCullough Robertson (*legal review*);
- RPS Australia East Pty Ltd (*terrestrial ecology post summer and post winter baseline survey report*);
- Simpson Engineering Group – Mr Mark Simpson (*noise and vibration assessment*);
- SKM (*preliminary conceptual groundwater model*);
- Soil Mapping & Monitoring Pty Ltd – Mr Jon Burgess (*soil and land suitability assessment*);
- Terrenus Earth Sciences – Dr Ian Swane (*geochemistry assessment*);
- Todoroski Air Sciences – Mr Aleks Todoroski (*air quality and greenhouse gas assessment*);
- Water Solutions Pty Ltd (*flood modelling and assessment*); and
- WRM Water & Environment Pty Ltd – Dr David Newton (*site water balance and surface water assessment*).

All technical assessments relating to critical matters identified in the Final ToR have been subject to peer review by specialists in their respective fields including:

- Cenwest Environmental Services – Professor David Goldney (*terrestrial ecology assessment peer review*);
- Evans & Peck – Dr Steve Perrens (*site water balance and surface water assessment peer review*);
- GTA Consultants (*road transport assessment peer review*);
- Kalf & Associates – Dr Frans Kalf (*groundwater modelling and assessment peer review*);
- Redfin AquaSciences – Mr Stephan Gabas (*aquatic ecology peer review*);
- Renzo Tonin Associates – Mr Peter Karantonis (*noise and vibration assessment peer review*);
- RGS Environmental – Dr Alan Robertson (*geochemistry assessment peer review*);
- Simpson Engineering Group – Mr Mark Simpson (*air quality and greenhouse gas assessment peer review*); and
- WRM Water & Environment Pty Ltd – Dr David Newton (*flood modelling and assessment peer review*).

## 1.9 DOCUMENT STRUCTURE

The EIS comprises a main text component and supporting studies, which include Appendices A to Q. An overview of the main text is presented below:

- |           |  |
|-----------|--|
| Section 1 | Provides an introduction to the proponent, the BNCOP and the function of the EIS as part of the assessment and approvals process.  |
| Section 2 | Describes the various components and stages of development of the BNCOP (construction and operations), as well as a description of the existing site and climate.  |
| Section 3 | Details the environmental assessment, objectives and performance outcomes of critical matters (i.e. flora and fauna, water quality, water resources, flooding and regulated dams, air, noise and vibration and transport) for the BNCOP. |
| Section 4 | Details the environmental assessment, objectives and performance outcomes of routine matters (i.e. land, biosecurity, waste management, cultural heritage, social impacts, economy and hazards and safety) for the BNCOP.                |
| Section 5 | Describes the rehabilitation and offset strategy for the BNCOP.  |
| Section 6 | Provides a consolidated description of the commitments to implement management measures for the BNCOP, including proposed EA conditions.   |

- Section 7      Lists documents referenced in Sections 1 to 6 of the EIS, including guidelines and policies.
- Section 8      Defines abbreviations, acronyms and terms used in Sections 1 to 6.

Attachments to the main text are provided as follows:

- Attachment 1      Final Terms of Reference
- Attachment 2      Regulatory Approvals
- Attachment 3      Community Information
- Attachment 4      Peer Review Letters

Appendices A to Q contain supporting documentation, including a number of specialist/technical reports:

- Appendix A      Terrestrial Ecology Assessment
- Appendix B      Aquatic Ecology Assessment
- Appendix C      Site Water Balance and Surface Water Assessment
- Appendix D      Groundwater Modelling and Assessment
- Appendix E      Geochemistry Assessment
- Appendix F      Flood Modelling and Assessment
- Appendix G      Air Quality and Greenhouse Gas Assessment
- Appendix H      Noise and Vibration Assessment
- Appendix I      Road Transport Assessment
- Appendix J      Soil and Land Suitability Assessment
- Appendix K      Contaminated Land Assessment
- Appendix L      Non-Indigenous Cultural Heritage Assessment
- Appendix M      Social Impact Assessment
- Appendix N      Economic Assessment
- Appendix O      Hazards and Safety Assessment
- Appendix P      Stygofauna Assessment
- Appendix Q      EPBC Act Controlling Provisions Assessment

# Environmental Policy



**COCKATOO COAL** is committed to being an environmentally responsible coal company by avoiding, minimising or mitigating environmental impacts.

Cockatoo Coal will:

- Display visible leadership by considering environmental aspects throughout all phases of project development.
- Comply with all relevant legislation and regulations.
- Plan, implement, monitor and review appropriate environmental management systems and processes.
- Identify and control hazards and impacts resulting from Cockatoo Coal's operations that may affect the natural environment.
- Promote the efficient use of natural resources.
- Consider the needs of the communities in which we operate throughout all phases of our projects.
- Engage with stakeholders and consider their views in project planning and operations.

Cockatoo Coal's commitment to the environment extends to our staff and the communities in which we operate.

24 June 2013

Andrew Lawson  
Managing Director

David Vink  
Chief Operating Officer

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# Health & Safety Policy



**COCKATOO COAL** is committed to creating a workplace, free from injury and harm.

Cockatoo Coal will:

- Display leadership and commitment.
- Comply with all relevant legislation, regulations, codes of practice and standards.
- Plan, implement, monitor and review the Health and Safety Management System based on the identification and management of risks within the workplace.
- Identify and control hazards and impacts resulting from Cockatoo Coal's operations.
- Provide a safe and healthy workplace and working conditions for all, including employees, contractors and visitors.
- Provide training and support to enable all employees to work safely.
- Conduct investigations into all reported incidents and ensure corrective actions are implemented.
- Consult with employees and contractors to ensure understanding of the Health and Safety Management System and enhance effectiveness of policies and procedures.
- Regularly communicate and provide feedback to ensure high standards of health and safety and a culture of continuous improvement.

24 June 2013

Andrew Lawson  
Managing Director

David Vink  
Chief Operating Officer

# Community Policy



**COCKATOO COAL** is committed to building and maintaining respectful relationships with all stakeholders in the communities which we operate.

Cockatoo Coal will:

- Acknowledge that engaging with the community and stakeholders is critical to our business and must continue through the life of our projects.
- Provide accurate & timely information to the community and stakeholders.
- Explain decisions at all stages of the consultation process.
- Actively listen & acknowledge other points of view in project planning and operations.
- Respect individual & cultural differences at all times.
- Consider the needs of the communities in which we operate throughout all phases of our projects.
- Ensure communication with stakeholders is conducted using plain English and is simple and concise.

Cockatoo Coal, our employees and contractors are responsible for ensuring appropriate and respectful interactions with stakeholders and communities in which we operate at all times.

24 June 2013

Andrew Lawson  
Managing Director

David Viñk  
Chief Operating Officer