



# SECTION 1

## INTRODUCTION

## CONTENTS

1	INTRODUCTION	1-1
1.1	PROJECT OVERVIEW	1-1
1.1.1	Purpose of this Report	1-1
1.1.2	Background	1-2
1.1.3	Project Summary	1-2
1.1.4	Site Location and Tenure	1-9
1.1.5	Interaction with Other Operations and Projects in the Vicinity of the Site	1-9
1.1.6	Proponent	1-13
1.2	SECRETARY'S ENVIRONMENTAL ASSESSMENT REQUIREMENTS	1-13
1.3	PROJECT CONSULTANTS	1-16
1.4	DOCUMENT STRUCTURE	1-16

## LIST OF TABLES

Table 1-1	Project Summary
Table 1-2	Secretary's Environmental Assessment Requirements – Reference Summary
Table 1-3	Content Requirements of an EIS – Clause 7 of Schedule 2 of the EP&A Regulation
Table 1-4	EPBC Act Controlling Provisions – Reference Summary

## LIST OF FIGURES

Figure 1-1	Regional Location
Figure 1-2	Project Location
Figure 1-3	Aerial Photograph of the Wilpinjong Coal Mine and Surrounds
Figure 1-4	Project General Arrangement
Figure 1-5a	Relevant Land Ownership Plan
Figure 1-5b	Relevant Land Ownership Plan Wollar Inset
Figure 1-5c	Relevant Landholder List

## LIST OF PLATES

Plate 1-1	Wilpinjong Coal Mine
Plate 1-2	Front End Loader Handling Coal

## 1 INTRODUCTION

This document is an Environmental Impact Statement (EIS) for the Wilpinjong Extension Project (the Project). The Project would involve the continuation and extension of open cut mining operations at the Wilpinjong Coal Mine (Plate 1-1).

The Wilpinjong Coal Mine is located approximately 40 kilometres (km) north-east of Mudgee, near the Village of Wollar, within the Mid-Western Regional Local Government Area (LGA), in central New South Wales (NSW).

The Wilpinjong Coal Mine is owned and operated by Wilpinjong Coal Pty Ltd (WCPL), a wholly owned subsidiary of Peabody Energy Australia Pty Limited (Peabody Energy).

### 1.1 PROJECT OVERVIEW

#### 1.1.1 Purpose of this Report

This EIS has been prepared to accompany a Development Application made for the Project, in accordance with Part 4 of the NSW *Environmental Planning and Assessment Act, 1979* (EP&A Act).

This EIS considers the potential environmental impacts of the Project in accordance with the Secretary's Environmental Assessment Requirements (SEARs) issued by the NSW Department of Planning and Environment (DP&E) on 9 December 2014 (Attachment 1), the supplementary SEARs issued by the DP&E on 22 June 2015 (Attachment 1) and clauses 6 and 7 of Schedule 2 of the NSW *Environmental Planning and Assessment Regulation, 2000* (EP&A Regulation).

The SEARs were issued in accordance with the requirements of clause 3 of Schedule 2 of the EP&A Regulation. A summary of the SEARs is provided in Section 1.2.



**Plate 1-1: Wilpinjong Coal Mine**

### 1.1.2 Background

The Wilpinjong Coal Mine extracts run-of-mine (ROM) coal that is either processed on site at the Coal Handling and Preparation Plant (CHPP) or bypassed directly to product stockpiles.

Coal products are transported by rail on the existing Sandy Hollow Gulgong Railway to local energy generators and to the Port of Newcastle for export.

The location of the existing Wilpinjong Coal Mine is shown on Figures 1-1 and 1-2, and Figure 1-3 provides an aerial photograph of the existing mine. A description of the existing mining operations and history of approvals is provided in Sections 2.1 and 2.2, respectively.

WCPL is seeking approval from the NSW Minister for Planning for Development Consent under Division 4.1 of Part 4 of the EP&A Act for the Project, which would replace the existing Wilpinjong Coal Mine Project Approval (Project Approval 05-0021).

The approved Wilpinjong Coal Project was referred to the Department of the Environment and Heritage in 2005, and was determined as not a controlled action (EPBC 2005/2309). The proposed action to extend open cut coal mining and processing operations at the Wilpinjong Coal Mine was referred to the Commonwealth Minister in February 2015 (EPBC 2015/7431) (the proposed action).

A delegate of the Commonwealth Minister determined on 12 March 2015 that the proposed action is a 'controlled action' and therefore the action also requires approval under the Commonwealth *Environment Protection and Biodiversity Conservation Act, 1999* (EPBC Act).

The proposed action is to be assessed pursuant to the assessment bilateral agreement with the NSW Government. Therefore, this EIS provides an assessment of potential impacts (in accordance with the supplementary SEARs) to the following controlling provisions considered by the Commonwealth Minister to be relevant to the action:

- EPBC Act listed threatened species and communities; and
- water resources.

A summary indicating where the supplementary SEARs have been addressed in the EIS is provided in Attachment 2.

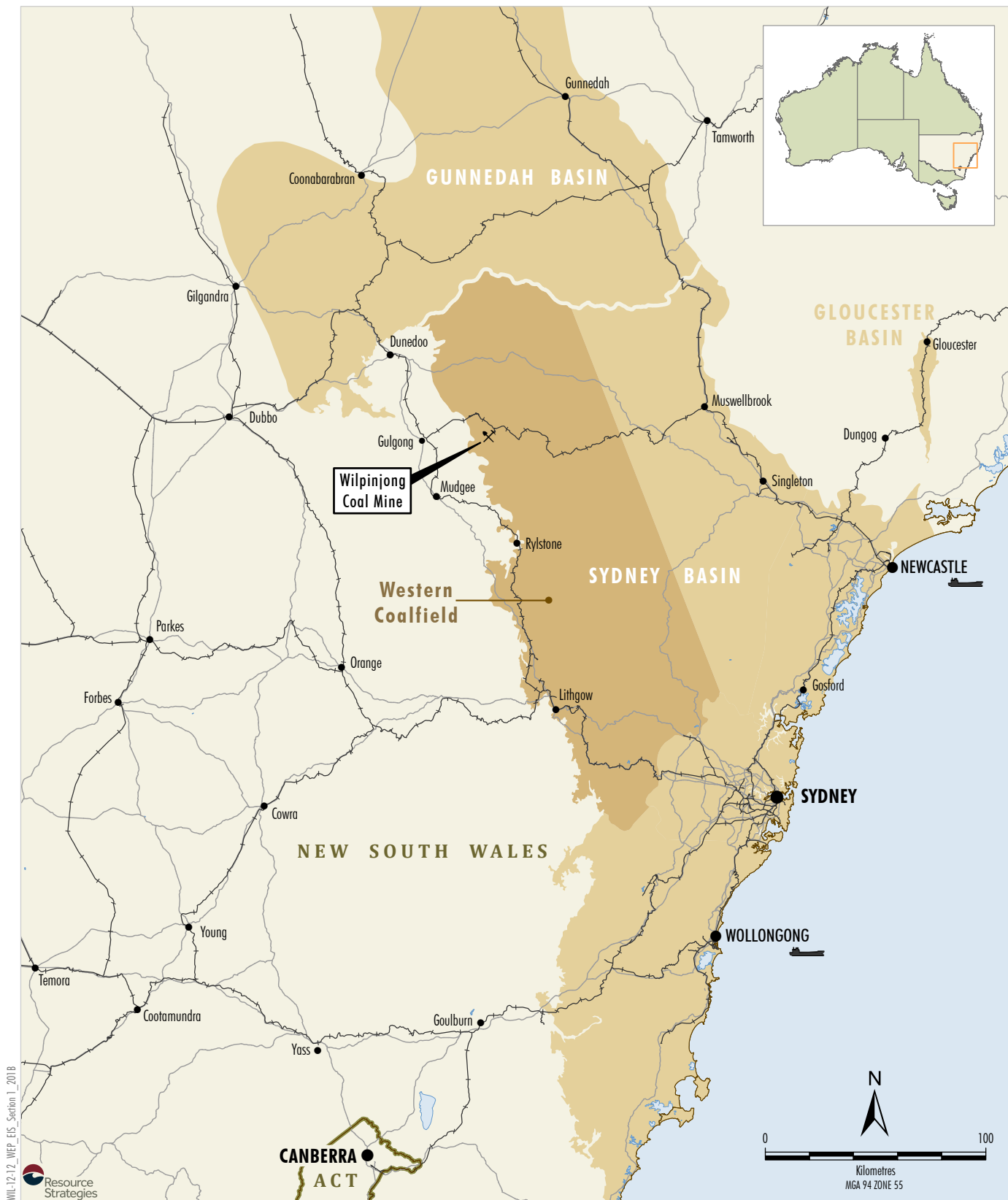
### 1.1.3 Project Summary

The proposed life of the Project is approximately 17 years and would extend the life of the approved Wilpinjong Coal Mine by approximately seven years (i.e. from approximately 2026 to 2033).

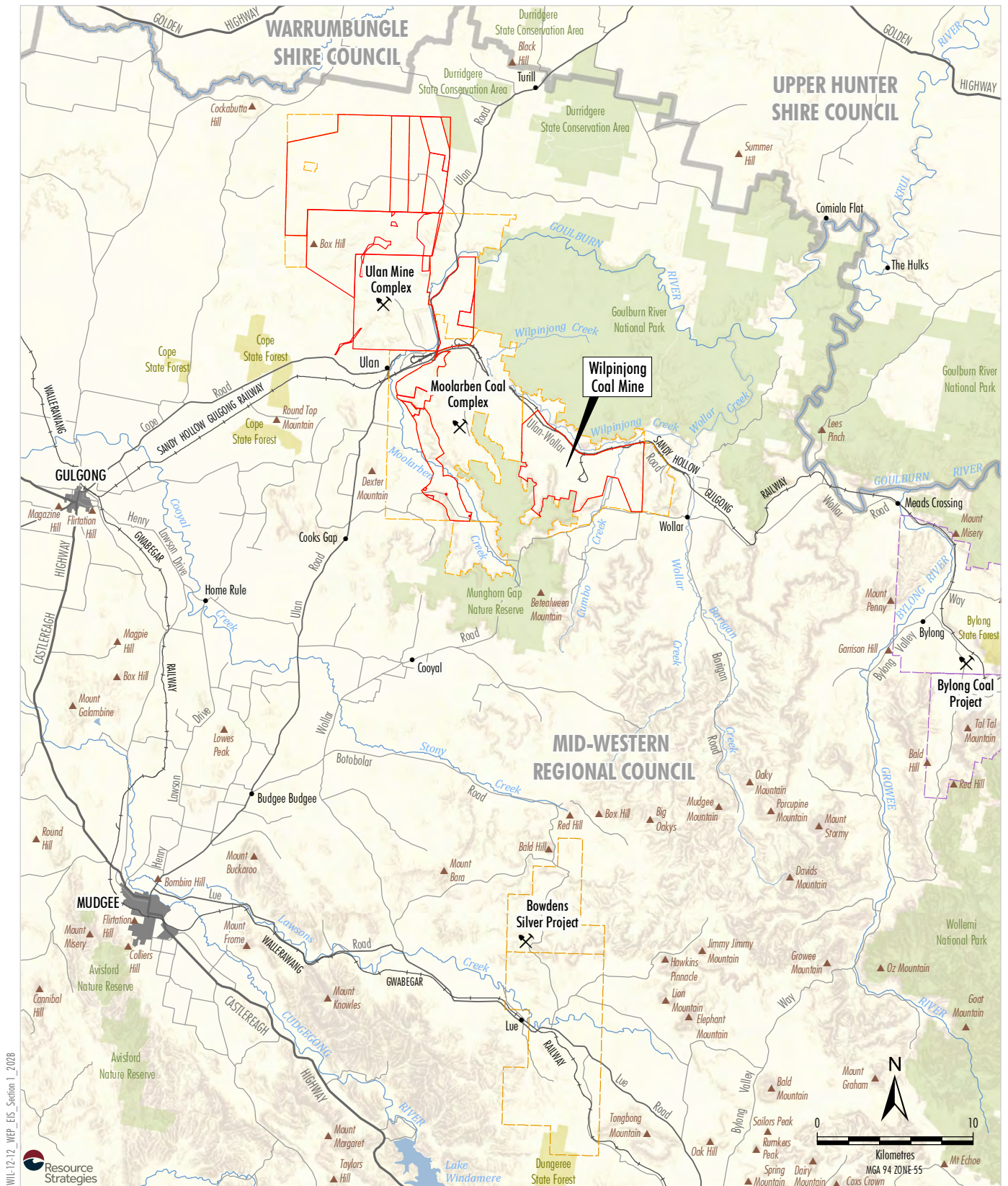
The main activities associated with the Project would include:

- open cut mining of ROM coal from the Ulan Coal Seam and Moolarben Coal Member in Mining Lease (ML) 1573 and in new Mining Lease Application (MLA) areas in Exploration Licence (EL) 6169 and EL 7091;
- approximately 800 hectares (ha) of open cut extensions, including (Figure 1-4):
  - approximately 500 ha of incremental extensions to the existing open cut pits in areas of ML 1573 and EL 6169; and
  - development of a new open cut pit of approximately 300 ha in EL 7091 (Pit 8);
- continued production of up to 16 million tonnes per annum (Mtpa) of ROM coal (Plate 1-2);
- continued use of the approved Wilpinjong Coal Mine CHPP and general coal handling and rail loading facilities and other existing and approved supporting mine infrastructure;
- rail transport of approximately 13 Mtpa of thermal product coal to domestic and export customers (within existing maximum and annual average daily rail limits);
- relocation of a section of the TransGrid Wollar to Wellington 330 kilovolt (kV) electricity transmission line (ETL) to facilitate mining in Pit 8;
- various local infrastructure relocations to facilitate the mining extensions (e.g. realignment of Ulan-Wollar Road and associated rail level crossing, relocation of local ETLs and services);
- construction and operation of additional mine access roads to service new mining facilities located in Pits 5 and 8;





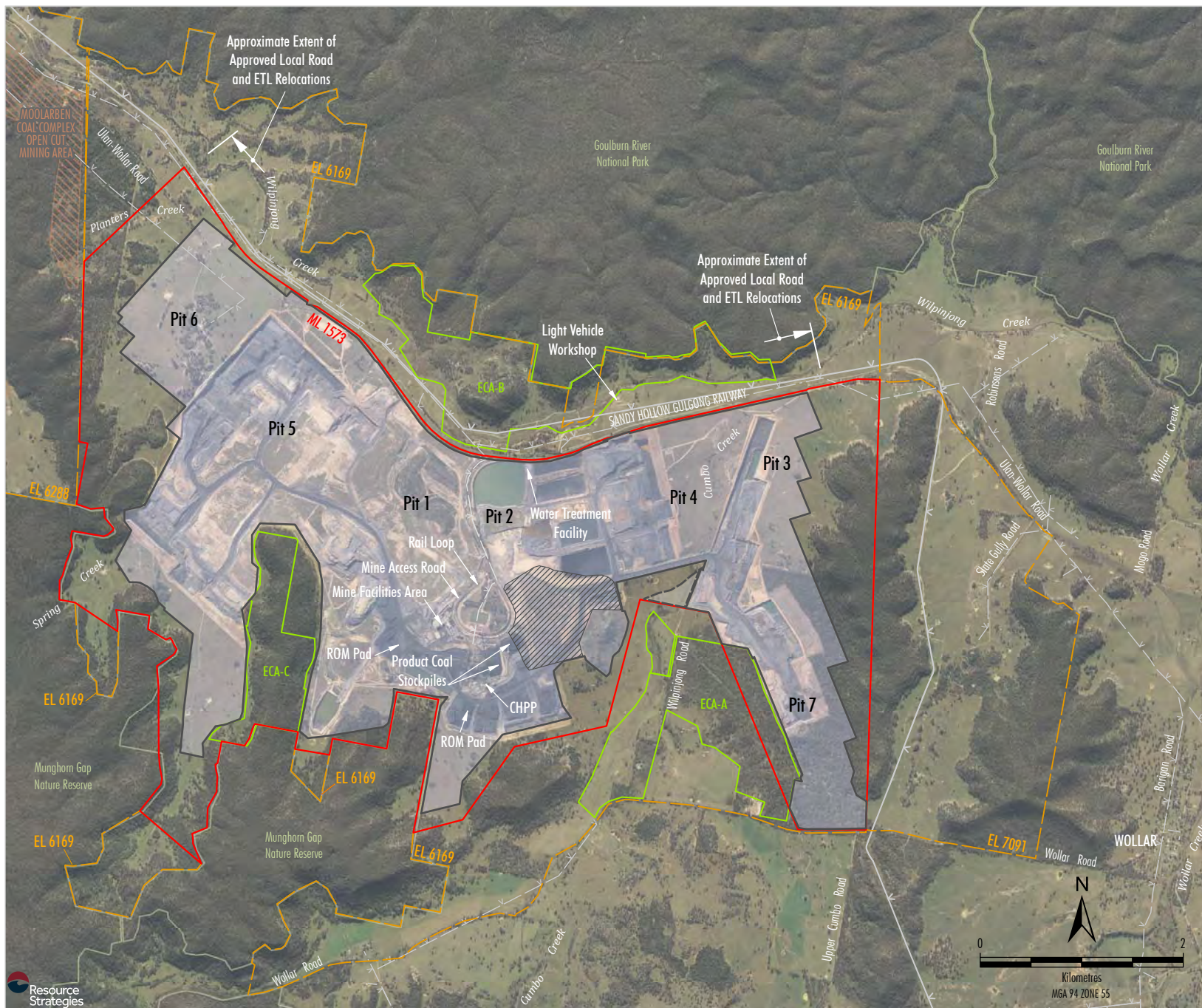
**Figure 1-1**



**Peabody**  
**WILPINJONG EXTENSION PROJECT**  
**Project Location**

**Figure 1-2**



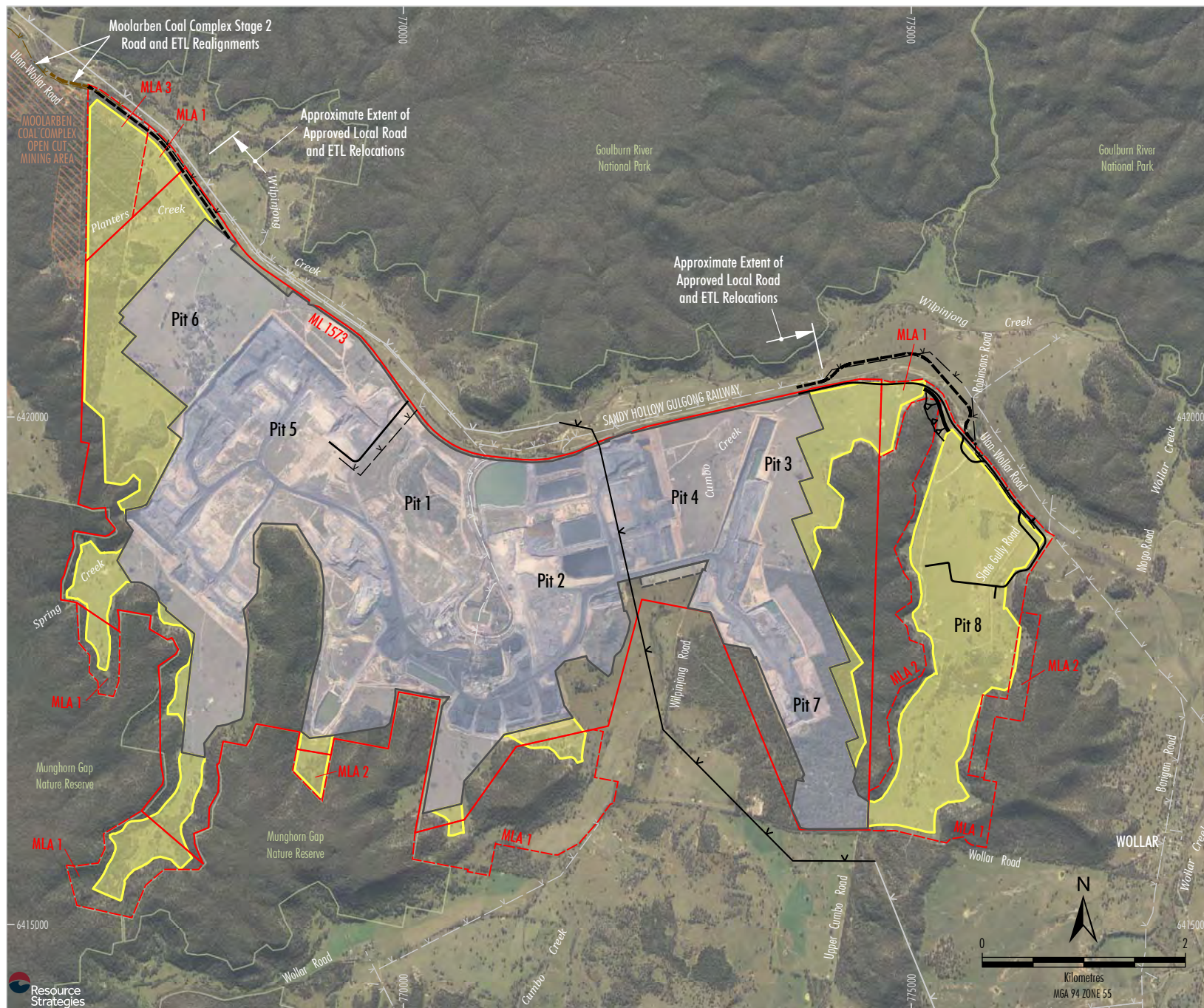


- LEGEND**
- Mining Lease Boundary
  - Exploration Licence Boundary
  - Approved/Existing Open Cut and Contained Infrastructure Area
  - Approved Block Bank and Cumbo Creek Relocation Disturbance Area
  - Approved Elevated In-Pit Waste Rock Emplacement Area
  - Existing Local ETL
  - Existing TransGrid 330 kV ETL
  - Enhancement and Conservation Area
- Source: WCPL (2015); NSW Dept of Industry (2015)  
 Orthophoto: WCPL (Jun 2015; Jun 2014)

**Peabody**  
 WILPINJONG EXTENSION PROJECT  
 Aerial Photograph of the  
 Wilpinjong Coal Mine and Surrounds

**Figure 1-3**





**LEGEND**

- Mining Lease Boundary
- Mining Lease Application Boundary
- Approved/Existing Open Cut and Contained Infrastructure Area
- Relocated Block Bank and Cumbo Creek Disturbance Area
- Proposed Open Cut Extension Area
- Proposed Public Road Realignment
- Proposed Pit 3/8 Haul Road
- Proposed Service Road
- Proposed Local ETL Realignment/Relocation
- Proposed Relocated TransGrid 330 kV ETL
- Existing Local ETL
- Existing TransGrid 330 kV ETL

Source: WCPL (2015); NSW Dept of Industry (2015)  
 Orthophoto: WCPL (Jun 2015; Jun 2014)

**Peabody**  
 WILPINJONG EXTENSION PROJECT  
 Project General Arrangement

**Figure 1-4**



- construction and operation of new ancillary infrastructure in support of mining including: mine infrastructure areas, ROM pads, haul roads, electricity supply, communications installations, light vehicle roads, access tracks, remote crib huts, up-catchment diversions, dams, pipelines and other water management structures;
- extension of the approved mine life by approximately seven years (i.e. from approximately 2026 to 2033);
- a peak operational workforce of approximately 625 people;
- ongoing exploration activities; and
- other associated minor infrastructure, plant and activities.

Table 1-1 provides a summary comparison of the approved Wilpinjong Coal Mine and Project components.

It should be noted that the action that requires assessment under the EPBC Act relates to those aspects of the proposed Project that would include extension of open cut mining operations and consequent additional disturbance areas, and associated surface infrastructure that is necessary to support the extension of open cut mining.

The action does not include the approved Wilpinjong Coal Mine that has either been previously referred and determined not to be a Controlled Action or previously determined not to require referral under the EPBC Act but has received all relevant State approvals. In addition, the elements of the Project which require EPBC Act approval exclude the continuation of mining operations in the open cut pits and associated activities which are currently authorised by existing approvals (including modifications and exploration activities).



**Plate 1-2: Front End Loader Handling Coal**

**Table 1-1  
Project Summary**

Project Component	Summary of Existing/Approved Wilpinjong Coal Mine	Summary of the Project
Mining Method	<ul style="list-style-type: none"> <li>Open cut mining operation extracting ROM coal.</li> </ul>	<ul style="list-style-type: none"> <li>Unchanged.</li> </ul>
Open Cut Extent	<ul style="list-style-type: none"> <li>Seven<sup>1</sup> contiguous open cut pits and associated contained infrastructure area comprising approximately 1,990 ha.</li> </ul>	<ul style="list-style-type: none"> <li>Eight open cut pits, including a new open cut pit in Slate Gully (Pit 8).</li> <li>Approximately 800 ha of open cut extensions.</li> </ul>
Annual ROM Coal Production	<ul style="list-style-type: none"> <li>16 Mtpa of ROM coal.</li> </ul>	<ul style="list-style-type: none"> <li>Unchanged.</li> </ul>
Waste Rock Management	<ul style="list-style-type: none"> <li>Waste rock is placed predominantly within mine voids.</li> </ul>	<ul style="list-style-type: none"> <li>Unchanged.</li> </ul>
Annual Waste Rock Production	<ul style="list-style-type: none"> <li>Annual waste rock production of approximately 34.1 million bank cubic metres (Mbcm).</li> </ul>	<ul style="list-style-type: none"> <li>Approximately 43 Mbcm.</li> </ul>
Coal Washing and Handling	<ul style="list-style-type: none"> <li>Beneficiation of ROM coal in the CHPP.</li> <li>Facilities for the handling and stockpiling of both washed and unwashed (bypass) coal.</li> </ul>	<ul style="list-style-type: none"> <li>Unchanged.</li> </ul>
Product Coal	<ul style="list-style-type: none"> <li>Approximately 12.6 Mtpa of thermal product coal for domestic electricity generation and export.</li> </ul>	<ul style="list-style-type: none"> <li>Approximately 13 Mtpa.</li> </ul>
Coal Transport	<ul style="list-style-type: none"> <li>An average of six and a maximum of 10 laden trains per day leaving the mine.</li> </ul>	<ul style="list-style-type: none"> <li>Unchanged (WCPL intends to retain current daily train movement limits but remove the current annual limit for total product coal railed [Section 2.9]).</li> </ul>
	<ul style="list-style-type: none"> <li>Transport via the Sandy Hollow Gulgong Railway.</li> </ul>	<ul style="list-style-type: none"> <li>Unchanged.</li> </ul>
Coal Rejects (tailings and coarse rejects)	<ul style="list-style-type: none"> <li>Coal rejects placed predominantly within mine voids.</li> <li>Tailings filter press to allow co-disposal of the tailings with coarse rejects.</li> </ul>	<ul style="list-style-type: none"> <li>Unchanged.</li> </ul>
Water Supply	<ul style="list-style-type: none"> <li>Make-up water demand to be met from runoff recovered from mine operational areas, recovery from tailings, open cut dewatering, advanced dewatering of pit areas and supply from a borefield.</li> <li>Recovery of water from tailings via tailings filter press.</li> </ul>	<ul style="list-style-type: none"> <li>No change to key sources of water supply.</li> </ul>
Water Disposal	<ul style="list-style-type: none"> <li>Mine water treated in a reverse osmosis plant/water treatment facility and discharged to Wilpinjong Creek in accordance with Environment Protection Licence (EPL) 12425.</li> </ul>	<ul style="list-style-type: none"> <li>No change to key aspects of water disposal.</li> </ul>
Mine Life	<ul style="list-style-type: none"> <li>21 years (from the date of grant of ML 1573).</li> </ul>	<ul style="list-style-type: none"> <li>28 years (seven year extension).</li> </ul>
Hours of Operation	<ul style="list-style-type: none"> <li>Open cut mining, handling and processing of ROM coal at the CHPP and train loading at the Wilpinjong Coal Mine is currently undertaken 24 hours per day, seven days per week.</li> </ul>	<ul style="list-style-type: none"> <li>Unchanged.</li> </ul>



**Table 1-1 (Continued)  
Project Summary**

Project Component	Summary of Existing/Approved Wilpinjong Coal Mine	Summary of the Project
General Infrastructure	<ul style="list-style-type: none"> <li>Access roads, electricity supply and distribution, rail loop, CHPP, train loading infrastructure, ROM coal stockpiles, coal handling equipment, diesel storage, administration, workshop, ablution buildings, stores, heavy vehicle workshop, and parking and washdown facilities.</li> </ul>	<ul style="list-style-type: none"> <li>Continued use of existing approved infrastructure and modifications/extensions to support the Project as required.</li> <li>Realignment of a 330 kV ETL, Ulan-Wollar Road and associated rail level crossing and local ETLs and services.</li> </ul>
Operational Workforce	<ul style="list-style-type: none"> <li>Approximately 550 people.</li> </ul>	<ul style="list-style-type: none"> <li>Approximately 625 people at peak.</li> </ul>

<sup>1</sup> Note that for the purposes of WCPL internal mine planning, Pit 3 has been divided into two separate pits (Pit 3 in the north and Pit 7 in the south) (Figure 1-3).

#### 1.1.4 Site Location and Tenure

Operations at the approved Wilpinjong Coal Mine are covered by the existing ML 1573. Exploration activities for future operations are covered under EL 6169 and EL 7091. The Project would extend into three new MLA areas within both EL 6169 and EL 7091 (Figure 1-4).

WCPL has lodged MLAs with the Division of Resources and Energy (DRE) (within the NSW Department of Industry, Skills and Regional Development [NSW Department of Industry]) for Project development areas outside of the existing ML. WCPL will also renew existing ELs and ML 1573 as required.

Relevant land ownership information for land parcels within the immediate vicinity of the Project is provided on Figures 1-5a, 1-5b and 1-5c. The Project Development Application area (Figure 1-5a) includes those lands listed in the real property descriptions provided in support of the Development Application submitted to the DP&E (Attachment 3).

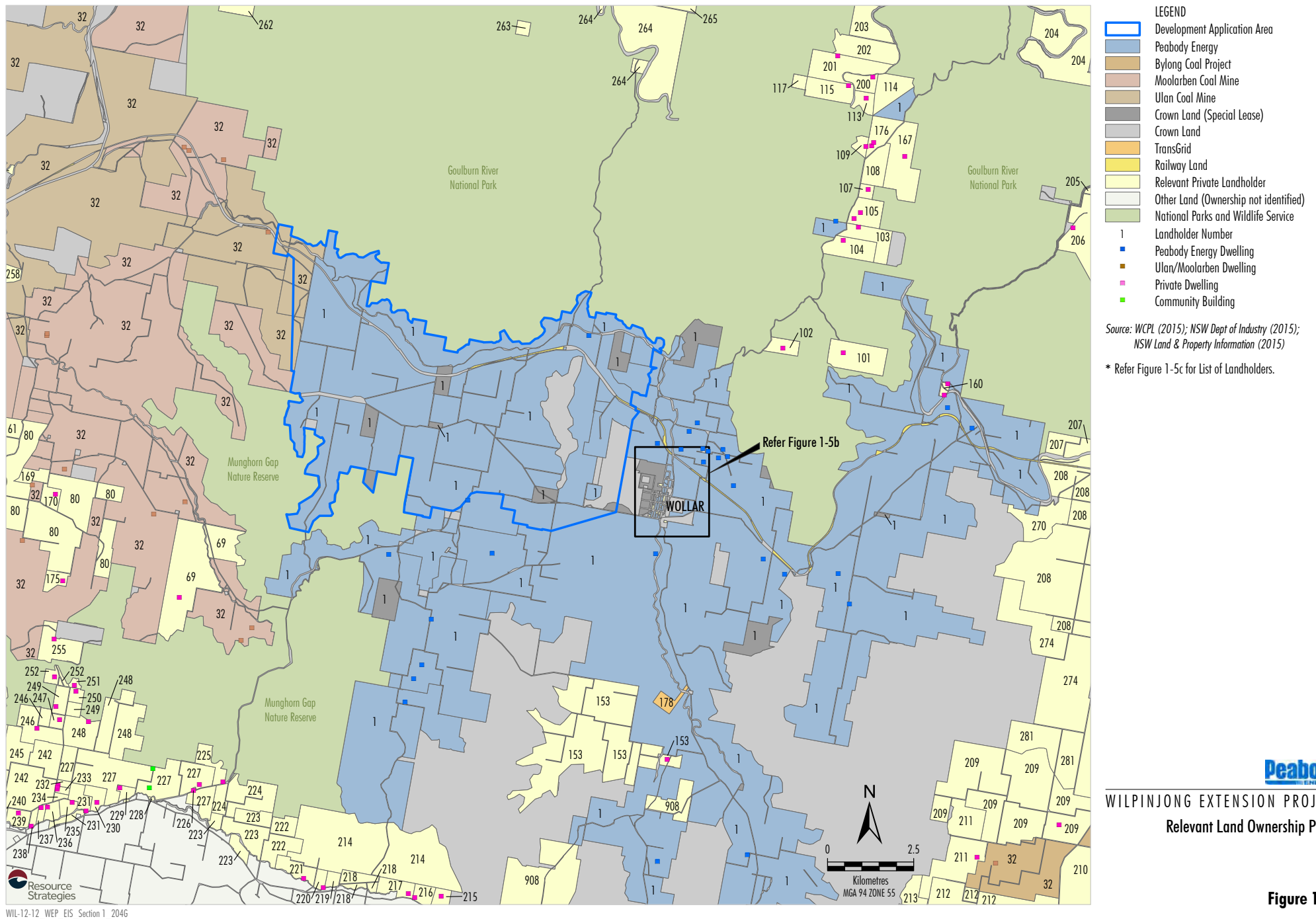
The Project Development Application area is within the Mid-Western Regional LGA. A description of the land zoning under the Mid-Western Regional Council (MWRC) Local Environmental Plan (LEP) 2012 in the Development Application area is provided in Section 6.2.

#### 1.1.5 Interaction with Other Operations and Projects in the Vicinity of the Site

Existing and proposed mining and processing operations and exploration activities in the vicinity of the Project that may potentially interact with the Project comprise:

- The Ulan Mine Complex, operated by Ulan Coal Mines Limited (UCML).
- The Moolarben Coal Complex, operated by Moolarben Coal Operations Pty Ltd on behalf of the Moolarben Joint Venture (Moolarben Coal Mines Pty Ltd, Sojitz Moolarben Resources Pty Ltd and a consortium of Korean power companies). For ease of reference in this EIS, Moolarben Coal Operations Pty Ltd and Moolarben Coal Mines Pty Ltd will be collectively referred to as Moolarben Coal. Moolarben Coal Operations Pty Ltd and Moolarben Coal Mines Pty Ltd are wholly owned subsidiaries of Yancoal Australia Limited.
- The Bowdens Silver Project, proposed by Kingsgate Bowdens Pty Limited.
- The Bylong Coal Project, proposed by KEPSCO Bylong Australia Pty Ltd (KEPCO).
- The approved Cobbora Coal Project, owned by Cobbora Holding Company Pty Limited.

Descriptions of potential Project interactions and cumulative impacts with these other developments are provided in Section 2.5, and where relevant, Section 4 and supporting appendices.



**Figure 1-5a**





REF NO	LANDHOLDER
1	PEABODY ENERGY
32	ULAN/MOOLARBEN/CASCADE COAL CONTROLLED LAND
61	J SZYMKARCZUK
69	DJ & JG STOKES
80	RB COX
101	NAB PIERCE
102	W FILIPCZYK
103	MR MOLLOY
104	J & IBD HARTIG
105	DL & EH TOOMBS
107	RJ LEE
108	PA CROSSE
109	MO VAISEY
113	AJ BRETT, S & D HILT
114	C WARE, N PARKER
115	T AUDRETSCH
117	S MCHUGH
150	E TINDALE, A MCDONALD & WS WILSON
153	TW MARSKELL
160	B SMILES & A SMILES-SCHMIDT
167	GJ JAUQUES
169	J ASZTALOS
170	MB COX
175	SF & MR ANDREWS
176	S RAYNER
178	TRANSGRID
200	BJ HUGHES, CA BEINSSSEN, K ASLETT
201	SJ CUTHBERT
202	SV MCGUINNESS & RL PRYOR
203	WP PRATT, CB & EA TOBIN
204	RON POTTER (FARMS) PTY LTD
205	AJ O'BRIEN
206	EA HUNT
207	AL DUNN
208	JUSTIN KENNEDY LEWIS PTY LIMITED
209	ICELINK PTY LIMITED
210	TIMNATH PTY. LIMITED
211	MJ & BH PERRY
212	BONGALONG PTY LTD
213	IWI CATTLE CO.PTY.LIMITED
214	A ISAAC
215	TM LARKIN & ET MONAGHAN
216	RJ WAUGH
217	AE MCDONALD
218	RE, MR & H LUESCHER
219	JA LUCKETT
220	V & N STANKOVIC

REF NO	LANDHOLDER
221	HC & E VON BISCHOFFSHAUSEN
222	RT & JM BILES
223	NAGERA PTY LIMITED
224	CR & VK HARTAS
225	JW CAMPBELL
226	RD BALL
227	JB & J BAKER
228	KA ROSS
229	DE & JI SMITH
230	TA & RN STAIT
231	MR FIELD
232	J TAYLOR
233	CDR & ASE MARTIN
234	MP & KA REEDY
235	PJ HOLLOW & SG MCNALLY
236	JIM & CG STEVENSON
238	M ANDONOVSKI
239	MJ BRYANT
240	KJ & SJ DUGGAN
242	RR HOLLOW
245	FS FAZIO
246	AJ & JA BOLAND
247	DA BOLAND
248	GA, MA, CJ & CM LANG
249	AP & DE BOLAND
250	CJ WARD
251	PD FRENCH & LE SATTLER
252	CM POOLMAN, A&W CREIGHTON
255	YR JONES
258	ICI AUSTRALIA OPERATIONS PTY LIMITED
262	JE MULLINS & CD IMRIE
263	T NEVELL
264	TURILL TC PTY LTD
265	J & SJ HORVATH
270	MT PENNY PROPERTIES PTY LTD
274	GEBLE PTY LTD
281	LOCAWAY PTY LTD
900	THE TRUSTEES OF THE ROMAN CATHOLIC CHURCH FOR THE DIOCESE OF BATHURST
903	MJ HARDIMAN & DM HOGAN
908	AE & AW LYNCH
914	S NICOD
921	EH TOOMBS
933	CR FAULKNER
942	RWM & SM SCHNEIDER
952	BJ & DM O'HARA
959	CJ CLARKE

\* Refer to Figures 1-5a and 1-5b for Land Ownership Plan and Wollar Inset.

Source: WCPL (2015); NSW Land & Property Information (2015)



### 1.1.6 Proponent

The Project is being developed by WCPL (ABN: 87 104 594 694), a wholly owned subsidiary of Peabody Energy.

The registered office for Peabody is:

Peabody Energy Australia Pty Ltd  
100 Melbourne Street  
SOUTH BRISBANE QLD 4101

### 1.2 SECRETARY'S ENVIRONMENTAL ASSESSMENT REQUIREMENTS

The SEARs for the Project were issued by the DP&E on 9 December 2014 and 22 June 2015 (Attachment 1).

A summary of the SEARs is provided in Tables 1-2 and 1-3, as well as the relevant section of the EIS where the SEARs are addressed.

In addition, a summary indicating where controlling provisions under the EPBC Act have been addressed in the EIS is provided in Table 1-4, and a summary indicating where the supplementary SEARs have been addressed in the EIS is provided in Attachment 2.

**Table 1-2  
Secretary's Environmental Assessment Requirements – Reference Summary<sup>1</sup>**

Summary of EIS Requirements	EIS Reference
<b>General Requirements</b>	
The EIS must include:	
• Form requirements in clause 6 of Schedule 2 of the EP&A Regulation.	Front of EIS and Attachment 3
• Content requirements in clause 7 of Schedule 2 of the EP&A Regulation.	Refer to Table 1-3
• Description of the Project, including staging of the Project.	Section 2
• Plans of proposed surface infrastructure and facilities.	Section 2
• A waste management strategy.	Sections 2.10 and 2.15
• A water management strategy.	Section 2.12
• A rehabilitation strategy.	Section 5
• Interaction of the Project with existing, approved and proposed mining operations.	Section 2.5
• A list of approvals that must be obtained before the development may commence.	Section 6 and Attachments 5 and 6
• A description of the existing environment.	Section 4
• Assessment of the potential environmental impacts of all stages of the Project, including cumulative impacts.	Section 4

**Table 1-2 (Continued)**  
**Secretary's Environmental Assessment Requirements – Reference Summary<sup>1</sup>**

Summary of EIS Requirements	EIS Reference
<ul style="list-style-type: none"> <li>A description of the measures that would be implemented to mitigate and/or offset the potential impacts of the Project including: <ul style="list-style-type: none"> <li>whether the measures are consistent with industry best practice and represent the full range of reasonable and feasible mitigation measures;</li> <li>the likely effectiveness of the measures; and</li> <li>contingency plans.</li> </ul> </li> </ul>	Sections 4, 5 and 7
<ul style="list-style-type: none"> <li>A description of the measures that would be implemented to monitor and report on the environmental performance of the Project.</li> </ul>	Sections 4, 5 and 7
<ul style="list-style-type: none"> <li>A consolidated summary of all proposed environmental management and monitoring measures.</li> </ul>	Section 7
<ul style="list-style-type: none"> <li>Consideration of relevant environmental planning instruments.</li> </ul>	Section 6 and Attachments 5 and 6
<ul style="list-style-type: none"> <li>Project justification.</li> </ul>	Section 6.7
<ul style="list-style-type: none"> <li>An estimate of the capital investment value of the Project.</li> </ul>	Attachment 7
<ul style="list-style-type: none"> <li>An estimate of the jobs that would be created during each stage of the Project.</li> </ul>	Sections 2.17 and 4.16
<b>Specific Issues</b>	
<ul style="list-style-type: none"> <li>Noise.</li> </ul>	Sections 4.3, 4.5 and 4.14 and Appendix A
<ul style="list-style-type: none"> <li>Air.</li> </ul>	Sections 4.4, 4.6 and 4.18 and Appendix B
<ul style="list-style-type: none"> <li>Water.</li> </ul>	Sections 4.7 and 4.8 and Appendices C and D
<ul style="list-style-type: none"> <li>Biodiversity.</li> </ul>	Section 4.9 and Appendices E and F
<ul style="list-style-type: none"> <li>Heritage.</li> </ul>	Sections 4.10 and 4.11 and Appendices G and H
<ul style="list-style-type: none"> <li>Land.</li> </ul>	Section 4.12, Appendices I, K, and L and Attachment 8
<ul style="list-style-type: none"> <li>Transport.</li> </ul>	Section 4.13 and Appendix J
<ul style="list-style-type: none"> <li>Visual.</li> </ul>	Section 4.15 and Appendix O
<ul style="list-style-type: none"> <li>Social and Economic.</li> </ul>	Sections 4.16 and 4.17 and Appendices M and N
<ul style="list-style-type: none"> <li>Public Safety.</li> </ul>	Section 4.19 and Appendices P and Q
<b>Consultation</b>	
<ul style="list-style-type: none"> <li>Describe the consultation that was carried out, identify issues raised during this consultation, and explain how these issues have been addressed in the EIS.</li> </ul>	Section 3

<sup>1</sup> The complete version of the SEARs is presented in Attachment 1.



**Table 1-3**  
**Content Requirements of an EIS – Clause 7 of Schedule 2 of the EP&A Regulation**

Summary of Clause 7 of Schedule 2 of the EP&A Regulation	EIS Reference
The EIS must include:	
• Summary of the EIS.	Executive Summary
• Objectives of the Project.	Section 6.7.1
• Analysis of any feasible alternatives to the Project, including the consequences of not carrying out the Project.	Section 6.7
• Description of the Project.	Section 2
• Description of the environment likely to be affected by the Project.	Section 4
• The likely impact on the environment of the Project.	Section 4
• Description of the measures proposed to mitigate any adverse effects of the Project on the environment.	Sections 4, 5 and 7
• A list of any approvals that must be obtained under any other Act or law before the Project may lawfully be carried out.	Section 6.4
• Compilation (in a single section of the EIS) of the measures proposed to mitigate any adverse effects of the Project on the environment.	Section 7
• Justification of the Project, having regard to biophysical, economic and social considerations, including the principles of ecologically sustainable development (ESD).	Section 6.7

**Table 1-4**  
**EPBC Act Controlling Provisions – Reference Summary**

EPBC Act Controlling Provisions <sup>1</sup>	EIS Reference
Threatened species and ecological communities, including:	
• White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland (Box-Gum Woodland).	Section 4.9 and Appendix E
• <i>Anthochaera phrygia</i> (Regent Honeyeater).	
• <i>Ozothamnus tessellatus</i> .	
• <i>Lathamus discolor</i> (Swift Parrot).	
• <i>Dasyurus maculatus maculatus</i> (Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll: south-eastern mainland population).	
• <i>Chalinolobus dwyeri</i> (Large-eared Pied Bat, Large Pied Bat).	
• <i>Nyctophilus corbeni</i> (South-eastern Long-eared Bat).	
Water resources:	
• Impacts to the surface water quality and/or hydrology of Wollar, Wilpinjong and Cumbo Creek.	Section 4.8 and Appendix D
• Impacts to Groundwater, Groundwater Users and Groundwater Dependant Ecosystems (GDEs).	Sections 4.7 and 4.9 and Appendices C and E
• Cumulative impacts on water resources.	Sections 4.7 and 4.8 and Appendices C and D

<sup>1</sup> Refer to Attachment 1.

### 1.3 PROJECT CONSULTANTS

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

- Palaris (*mine scheduling, sequencing and final landform*);
- WCPL (*project design, alternatives and justification, preliminary hazard analysis, background data, resource economics, consultation, rehabilitation and environmental monitoring and management*);
- SLR Consulting (*noise and blasting assessment*);
- Todoroski Air Sciences (*air quality and greenhouse gas assessment*);
- HydroSimulations (*groundwater assessment*);
- Groundwater Imaging Pty Ltd (*transient electromagnetic [TEM] survey*);
- Groundwater Exploration Services (*groundwater investigations*);
- WRM Water & Environment (*surface water assessment*);
- Hunter Eco (*terrestrial flora baseline report [development site], terrestrial flora baseline report [potential offset areas] and biodiversity assessment report and biodiversity offset strategy*);
- Biodiversity Monitoring Services (*terrestrial fauna baseline report [development site], terrestrial fauna baseline report [potential offset areas]*);
- Bio-Analysis (*aquatic ecology assessment*);
- South East Archaeology (*Aboriginal cultural heritage assessment*);
- Niche Environment and Heritage (Niche) (*historical heritage assessment*);
- McKenzie Soil Management (*land and soil assessment*);
- GTA Consultants (*road transport assessment*);
- Geo-Environmental Management (*geochemistry assessment*);
- Lloyd Consulting (*land contamination assessment*);

- Deloitte Access Economics (*economic assessment*);
- Elliott Whiteing (*social impact assessment*);
- Marc & Co (*visual simulations*);
- Safe Productions Solutions (*environmental risk assessment*); and
- McCullough Robertson (*legal review*).

In addition to the above, peer review was undertaken by the following specialists (Attachment 4):

- Mr Richard Heggie (*noise and blasting*);
- Mr Nigel Holmes (*air quality*);
- Dr Frans Kalf (*groundwater*);
- Emeritus Professor Thomas McMahon (*surface water*); and
- Dr Brian Fisher (*economics*).

### 1.4 DOCUMENT STRUCTURE

This EIS comprises a main text component and supporting studies, which includes Appendices A through Q. An overview of the main text is presented below:

Section 1	Provides an introduction to the Project and the EIS.
Section 2	Describes the various components and stages of the Project.
Section 3	Describes the consultation undertaken in relation to the EIS and ongoing community involvement.
Section 4	Details the environmental assessment for the Project including a description of the existing environment, an assessment of potential impacts and a description of measures that would be implemented to avoid, minimise, mitigate, offset, manage and/or monitor the potential impacts of the Project.
Section 5	Describes the rehabilitation strategy for the Project.
Section 6	Outlines the statutory provisions relevant to the Project, describes the alternatives considered and provides a Project justification.

- Section 7 Provides a summary of the proposed environmental management, mitigation, monitoring and reporting in relation to the Project.
- Section 8 Lists documents referenced in Sections 1 to 7 of this EIS.
- Section 9 Defines abbreviations, acronyms and terms used in Sections 1 to 7 of this EIS.

Attachments to the main text are also provided as follows:

- Attachment 1 Secretary's Environmental Assessment Requirements.
- Attachment 2 Matters of National Environmental Significance Cross Reference Table.
- Attachment 3 Development Application Area and Real Property Descriptions.
- Attachment 4 Peer Review Letters.
- Attachment 5 Planning Instruments Addendum.
- Attachment 6 Aquifer Interference Policy Considerations and Water Licensing Addendum.
- Attachment 7 Capital Investment Value Estimate Report.
- Attachment 8 Geotechnical Advice.
- Attachment 9 Community Information.
- Attachment 10 Site Verification Certificate.
- Attachment 11 Relevant Division of Resources and Energy Correspondence.
- Attachment 12 Aboriginal Cultural Heritage Assessment Additional Assessment Information.

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

- Appendix A Noise and Blasting Assessment.
- Appendix B Air Quality and Greenhouse Gas Assessment.
- Appendix C Groundwater Assessment.
- Appendix D Surface Water Assessment.
- Appendix E Biodiversity Assessment Report and Biodiversity Offset Strategy.
- Appendix F Aquatic Ecology Assessment.
- Appendix G Aboriginal Cultural Heritage Assessment.
- Appendix H Historical Heritage Assessment.
- Appendix I Land and Soil Assessment.
- Appendix J Road Transport Assessment.
- Appendix K Geochemistry Assessment.
- Appendix L Land Contamination Assessment.
- Appendix M Economic Assessment.
- Appendix N Social Impact Assessment.
- Appendix O Visual Assessment.
- Appendix P Environmental Risk Assessment.
- Appendix Q Preliminary Hazard Analysis.