



Centennial Coal



***Newstan Colliery
Extension of Mining Project***

Briefing Paper

February 2012



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ABBREVIATIONS

AHD	Australian Height Datum
AHIMS	Aboriginal Heritage Information Management System
Banpu	Banpu Public Company Limited
BOM	Bureau of Meteorology
CCC	Community Consultative Committee
CPP	Coal Preparation Plant
Centennial	Centennial Coal Company
Centennial Newstan	Centennial Newstan Pty Ltd
DA 73-11-98	Development Application 73-11-98
EAR's	Environmental Assessment Requirements
EIS	Environmental Impact Statement
DP&I	Department of Planning and Infrastructure
DTIRIS	Department of Trade and Investment, Regional Infrastructure and Services
EMS	Environmental Management System
EP&A Act	Environmental Planning and Assessment Act 1979
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999
EPL	Environment Protection Licence
GDE	Groundwater Dependent Ecosystem
Heritage Act	Heritage Act 1977
ILUA	Indigenous Land Use Agreement
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	Local Government Area
LMCC	Lake Macquarie City Council

MNES	Matters of National Environmental Significance
Mtpa	Million tonnes per annum
Newstan EIS	Newstan Colliery Life Extension Project Environmental Impact Statement
NREA	Northern Reject Emplacement Area
NGER Act	National Greenhouse and Energy Reporting Act 2007
NOW	NSW Office of Water
NPW Act	National Parks and Wildlife Act 1974
OEH	Office of Environment and Heritage
POEO Act	Protection of the Environment Operations Act 1997
Project	Extension of Mining Project
ROM	Run of Mine
RWMP	Revised Water Management Plan
SEPP	State Environmental Planning Policies
SREA	Southern Reject Emplacement Area
TSC Act	Threatened Species Conservation Act 1995
WMA	Water Management Act 2000
WSP	Water Sharing Plan

Definitions

Newstan Colliery

Newstan Colliery encompasses the Newstan Colliery Surface Site including reject emplacement areas, the extent of existing and approved underground mine workings and the extent of mining leases and exploration licences held by Centennial Newstan.

Newstan Colliery Surface Site

The Newstan Colliery Surface Site encompasses the surface facilities located off Miller Road, Fassifern and includes all buildings, coal handling infrastructure, men and materials access, mine ventilation fans and a water management system.

Awaba Colliery

The Awaba Colliery encompasses the Awaba Colliery Surface Site and the extent of existing and approved underground mine workings.

Awaba Colliery Surface Site

The Awaba Colliery Surface Site includes the surface infrastructure located off Wilton Road at Awaba and includes existing coal handling infrastructure, administration buildings, workshops, mine ventilation fans and a water management system.

1.0 INTRODUCTION

1.1 Background

Newstan Colliery is an existing underground coal mine owned and operated by Centennial Newstan Pty Limited (Centennial Newstan). Newstan Colliery is regionally located approximately 25 kilometres south-west of Newcastle and 140 kilometres north of Sydney within the Lake Macquarie Local Government Area (LGA). The Newstan Colliery Surface Site is located approximately four kilometres north of the township of Toronto.

Newstan Colliery began mining operations in 1887 and has since undertaken extensive mining within the Young Wallsend, Great Northern, Fassifern, Borehole and West Borehole coal seams. The Newstan Colliery produces both a semi soft coking coal and thermal coal for the domestic and export markets.

In 2009 the Newstan Colliery temporarily ceased underground mining production however continued to operate the Newstan Colliery surface site for the handling and processing of coal from other Centennial operations. Underground mining recommenced at the Newstan Colliery in July 2011.

1.2 Project Overview

Centennial Newstan is seeking approval for the Newstan Colliery Extension of Mining Project (the Project) under Part 4 Division 4.1 of the Environmental Planning and Assessment Act 1979 (EP&A Act). Specifically the Project proposes to:

- Expand its underground mining operations both within and beyond the existing approved Newstan Colliery Life Extension Area utilising a combination continuous miner and longwall mining methods;
- Extract up to 4.5 million tonnes per annum (Mtpa) of run of mine (ROM) coal;
- Utilise and upgrade the existing surface infrastructure of the Newstan and Awaba collieries;
- Construct a new men and materials drift at the Awaba Colliery Surface Site for access to the Newstan Colliery underground workings;

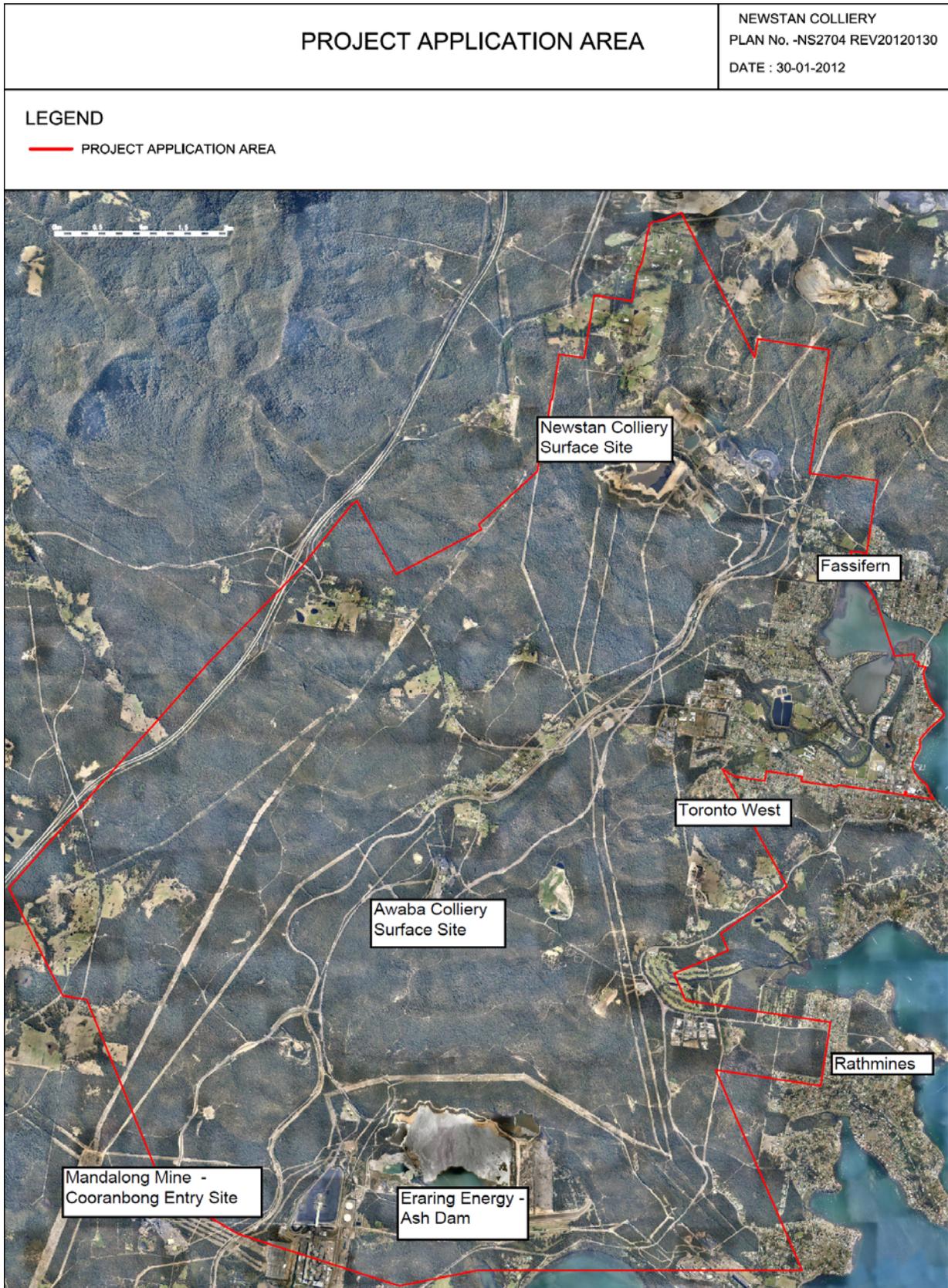
- Install and operate additional surface infrastructure for gas drainage, greenhouse gas capture and abatement, ventilation, support buildings, electrical reticulation, water reticulation, water management, communications and other services;
- Continue to operate the underground water management systems of both the Newstan and Awaba Collieries;
- Operate the Awaba Colliery surface water management system including all existing discharge points;
- Increase manning to 350 employees;
- Transfer water between the Newstan Colliery, the Awaba Colliery and the Mandalong Mine water management system;
- Continue to utilise the existing 'ballast borehole' site and services compound at Awaba;
- Undertake ongoing exploration drilling activities;
- Progressively rehabilitate disturbed areas;
- Continue to operate 24 hours per day seven days per week.

The proposed Newstan Colliery Extension of Mining Project Application Area as shown in **Figure 1** includes:

- The Newstan Colliery extension of mining area (as is described in Section 4.2);
- The Newstan Colliery Surface Site
- The Newstan Colliery ballast borehole site (located off Forest Road at Awaba);
- The Awaba Colliery Surface Site (including existing approved discharge points);
- Proposed additional ancillary/remote surface facilities/infrastructure areas required to support the Newstan Colliery Extension of Mining Project; and

- The existing and approved Newstan and Awaba Colliery mine workings for water management, mine ventilation, coal transport and men and materials access.

Figure 1 - Newstan Colliery Extension of Mining Project Application Area



1.3 Briefing Paper

This Briefing Paper has been prepared by Centennial Newstan to:

- Provide the Department of Planning and Infrastructure (DP&I) and other relevant regulators with a description of the Project; and
- Identify likely key social and environmental issues associated with the Project.

This Briefing Paper is intended to enable the Director-General to issue Environmental Assessment Requirements (EARs) to assist Centennial Newstan in the preparation of the Environmental Impact Statement (EIS) required to support the Project Application.

The Briefing Paper is generally structured as follows:

- **Section 1:** provides an introduction to the Project;
- **Section 2:** provides a description of the site and an overview of the existing environment;
- **Section 3:** provides an overview of the existing and approved mining operations of the Newstan and Awaba Collieries;
- **Section 4:** provides a description of the Project;
- **Section 5:** summarises the legislation relevant to the Project;
- **Section 6:** provides an overview of the preliminary environmental risks associated with the Project and the proposed assessment methodology for all key environmental issues identified in the preliminary environmental risk assessment for the Project;
- **Section 7:** describes the stakeholder consultation program to be undertaken to ensure all interested parties are consulted with regards to the Project; and
- **Section 8:** provides a justification for the Project.

1.4 The Applicant

Centennial Newstan Pty Limited (Centennial Newstan) is the applicant for this Project. Centennial Newstan is a wholly owned subsidiary of Centennial Coal

Company (Centennial), which is a wholly owned subsidiary of Banpu Public Company Limited (Banpu).

2.0 SITE DESCRIPTION

2.1 Site Locality and Existing Land Uses

2.1.1 Newstan Colliery

Newstan Colliery is regionally located approximately 25 kilometres south-west of Newcastle and 140 kilometres north of Sydney within the Lake Macquarie LGA. The Newstan Colliery Surface Site is located in Fassifern approximately four kilometres north of the township of Toronto.

2.1.2 Newstan Colliery Extension of Mining Area

The majority of the proposed Newstan Colliery extension of mining area is located under undulating, unpopulated bushland. Lake Macquarie and the surrounding residential suburbs of Toronto and Rathmines border the Project Area to the east. To the south lies the Eraring Power Station and associated infrastructure including the Eraring Power Station ash dam. To the west lies the F3 freeway. The Main Northern Railway traverses the Project Area in a north-south direction. The proposed mining area is bordered by previous Newstan Colliery mine workings to the north and north-west while the western area of the proposed mining area is overlaid with mine workings from the Awaba Colliery in the Fassifern and Great Northern coal seams.

2.1.3 Awaba Colliery

The Awaba Colliery surface site is located approximately one kilometre south of the Awaba village and 5.5 kilometres south-west of Toronto, adjacent to the Newstan-Eraring private haul road.

2.2 Landforms and Topography

The topography of the Project Area generally consists of rolling low hills with short side slopes and numerous closely spaced drainage lines, on predominately coarse-grained sediments of the Narrabeen Group and Newcastle Coal Measures. Slope gradients are generally 10 – 25 percent and local relief is between 20 metres and 110 metres AHD.

2.3 Climate

The closest Bureau of Meteorology (BOM) monitoring station operating in the area is situated approximately 23 kilometres to the north east of the Project Area at the Newcastle Nobbys Signal Station. The records from this monitoring station show that rainfall in the region is generally greater in late summer to early winter (February-June). On average March is the wettest month and November is the driest, with the area experiencing an average of 132 days of rain per year. The warmest month of the year on average is January. The area experiences a warm, wet climate typical of the NSW coastal fringe with cool to mild nights and warm to hot days in summer.

2.4 Geology

The mining area of the Newstan Colliery Extension of Mining Project is located in the central part of the Newcastle Coalfield which occupies the north-eastern portion of the Sydney Basin. The target coal resources are contained within the lower part of the Late Permian Newcastle Coal Measures.

The Newcastle Coal Measures are characterised by complex patterns of splitting and coalescence of the various coal seams. This is generally related to the localised presence of alluvial paleochannels within the sedimentary sequence. Within the project area, the Lambton Formation, at the base of the Newcastle Coal Measures, contains the only seams considered to have economic mining potential. The seams of interest are the West Borehole seam, which is the combination of the Nobbys, Dudley, Yard and Borehole seams, and the Young Wallsend seam, which is the combination of the Nobbys and Dudley seams.

The converged West Borehole seam exists in the western part of the project area where it ranges in thickness from 3.5m to 5.5m, with average raw ash content of 32%. The central part of the project area is characterised by complex seam splitting at the Yard seam level with only the Young Wallsend seam plus a variable number of Yard seam plies providing a potentially mineable section. This section ranges in thickness from 1.8m to 3.0m increasing to the east as additional plies of the Yard seam progressively re-attach to the mineable section. The raw ash content of this section varies considerably due to the variable inclusion of non-coal bands between the Yard plies as they re-attach to the section. In the eastern part of the project area, all of the Yard seam plies have combined and re-attached to the Young Wallsend seam forming a potentially mineable section which ranges in thickness from 3.1m to 3.8m, with average raw ash content of 25%.

The coal seams generally dip gently to the southeast at grades of 1 in 20; however localised seam rolls associated with paleochannels and seam splitting are present in the central part of the area. This can increase seam grades locally up to 1 in 10. Depth of cover to the target seam ranges from less than 100m in the north-west of the area to over 400m in the south-east.

Two igneous dykes have been encountered in the Newstan workings, one trending south-east and the other trending east-south-east. Several south-east trending dykes located adjacent to the eastern boundary of the project area have been interpreted from historic marine magnetic surveys. A major igneous sill intrudes the West Borehole Seam in the very west of the project area.

A review of mapped faults at Newstan Colliery and the adjacent Awaba and Myuna Collieries showed a dominant north-westerly direction which is consistent with the regional trend in the Newcastle Coalfield. The majority of these faults strike at 315 +/- 15 degrees and are normal in nature. Approximately 95% of these faults have vertical throws of less than 3 metres. This style and magnitude of faulting is expected to persist across the project area.

2.5 Land Ownership

Land ownership within and surrounding the Project Application Area includes:

- Crown land, Crown roads and Crown reserves;

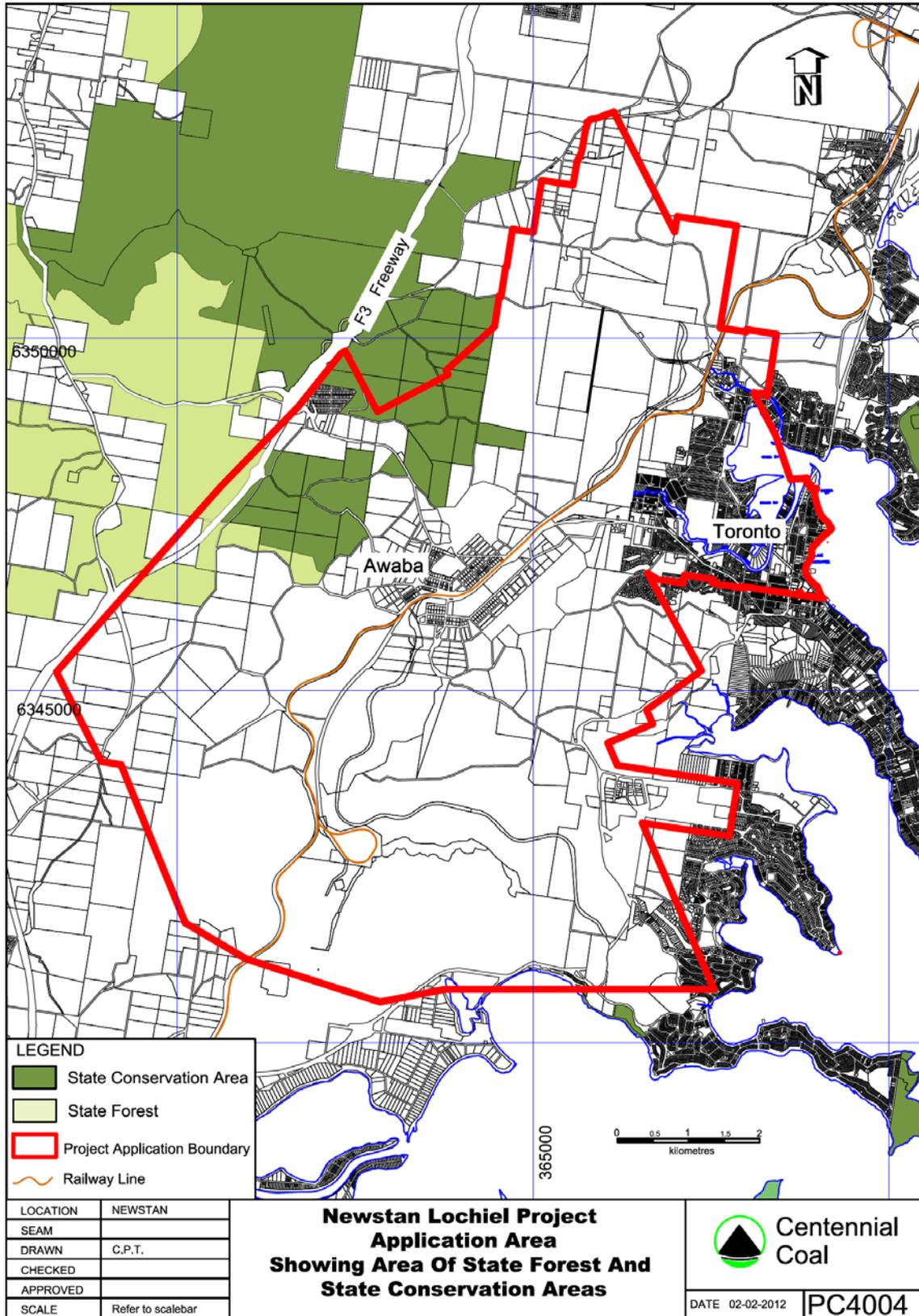
- Privately owned land;
- State Forest Areas managed by Forests NSW;
- State Conservation Areas
- Land owned by the Koopahtoo Local Aboriginal Land Council (LALC)*; and
- Land owned by the State Rail Authority.

The majority of land within the Project area is Crown land.

** In 2010 the Koopahtoo LALC was dissolved and the NSW Aboriginal Land Council became the controlling authority for the Koopahtoo LALC assets.*

Figure 2 details the locations of State Forest and State Conservation Areas within the Project Application Area. No State Conservation Areas are proposed to be undermined as a result of this Project.

Figure 2 - State Forest and State Conservation Areas within the Project Application Area



2.5.1 Newstan Colliery

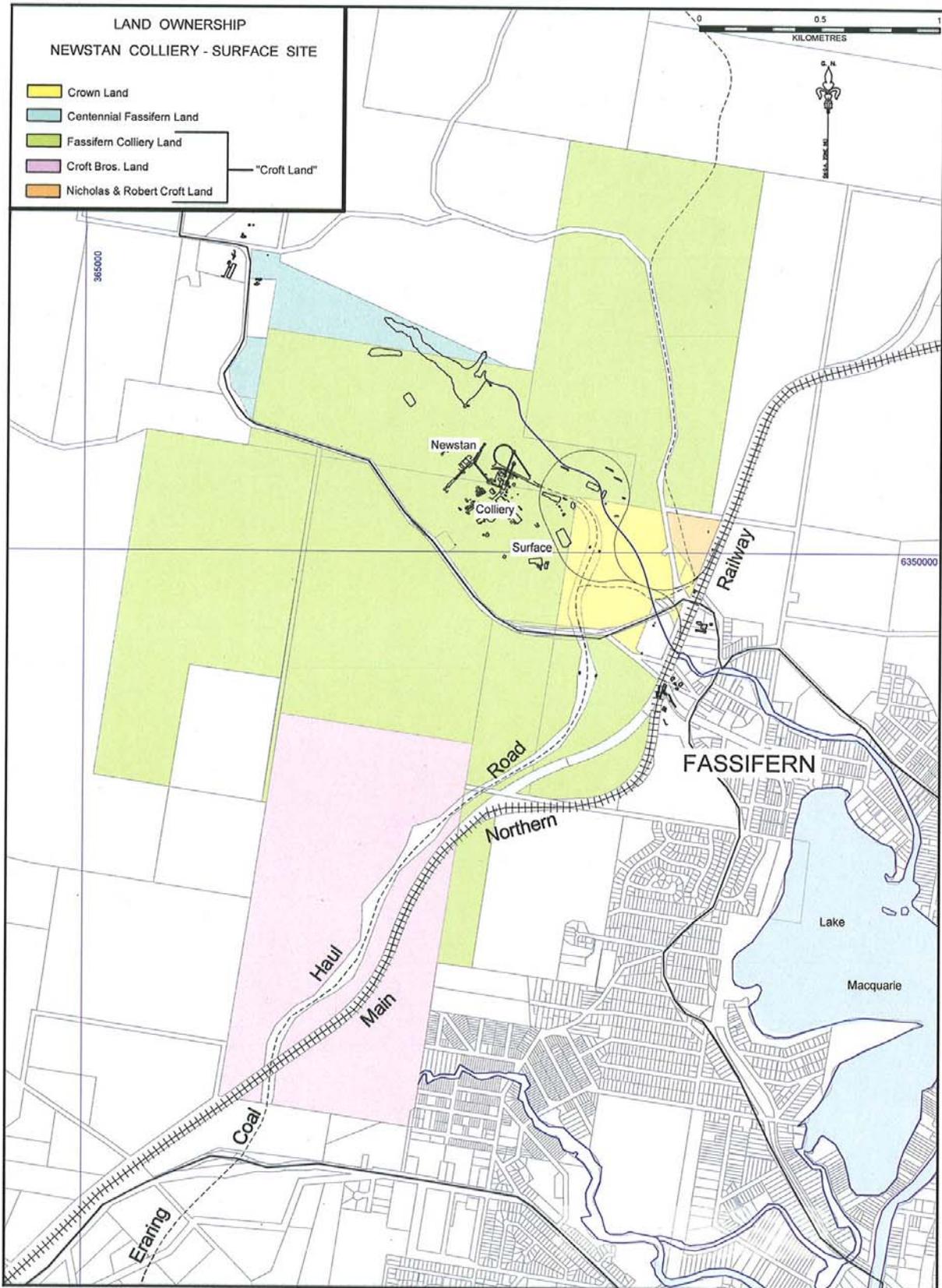
The Newstan Colliery Surface Site occupies mainly freehold land. The remainder of the land is Crown land. Land title descriptions and ownership associated with the Newstan Colliery Surface Site is listed in **Table 1** and shown in **Figure 3** below.

Table 1 – List of Land Titles for the Newstan Colliery Surface Site

Lot	DP	Owner
C	381399	Centennial Fassifern Pty Limited
441	583057	Fassifern Colliery Pty Limited
442	583057	Fassifern Colliery Pty Limited
443	583057	Fassifern Colliery Pty Limited
148	728974	Centennial Fassifern Pty Limited
390	1064199	Centennial Fassifern Pty Limited
64	755207	Fassifern Colliery Pty Limited
1	121470	Fassifern Colliery Pty Limited
630	816256	Crown Land
631	816256	Crown Land
11	1031778	Fassifern Colliery Pty Limited
13	1031778	Fassifern Colliery Pty Limited
100	1149240	Fassifern Colliery Pty Limited
103	1149241	Fassifern Colliery Pty Limited
104	1149241	Fassifern Colliery Pty Limited
15	1031778	Fassifern Colliery Pty Limited

17	1031778	Fassifern Colliery Pty Limited
18	1031778	Fassifern Colliery Pty Limited
20	1031778	Fassifern Colliery Pty Limited
27	755207	Fassifern Colliery Pty Limited
66	755207	Fassifern Colliery Pty Limited
100	1127677	Croft Bros. Pty Limited
591	607932	Nicholas & Robert Croft
234	755207	Crown Land
5	46737	Crown Land
6	46737	Crown Land

Figure 3 – Newstan Colliery Surface Site Land Ownership



The site of the Newstan Colliery ballast borehole, is located off Forest Road at Awaba on land (Lot 194 DP 755207) owned by the Koombahtoo LALC. Centennial Newstan holds a registered land lease with the Koombahtoo LALC for the construction and ongoing operation of the ballast borehole and services site.

2.5.2 Awaba Colliery

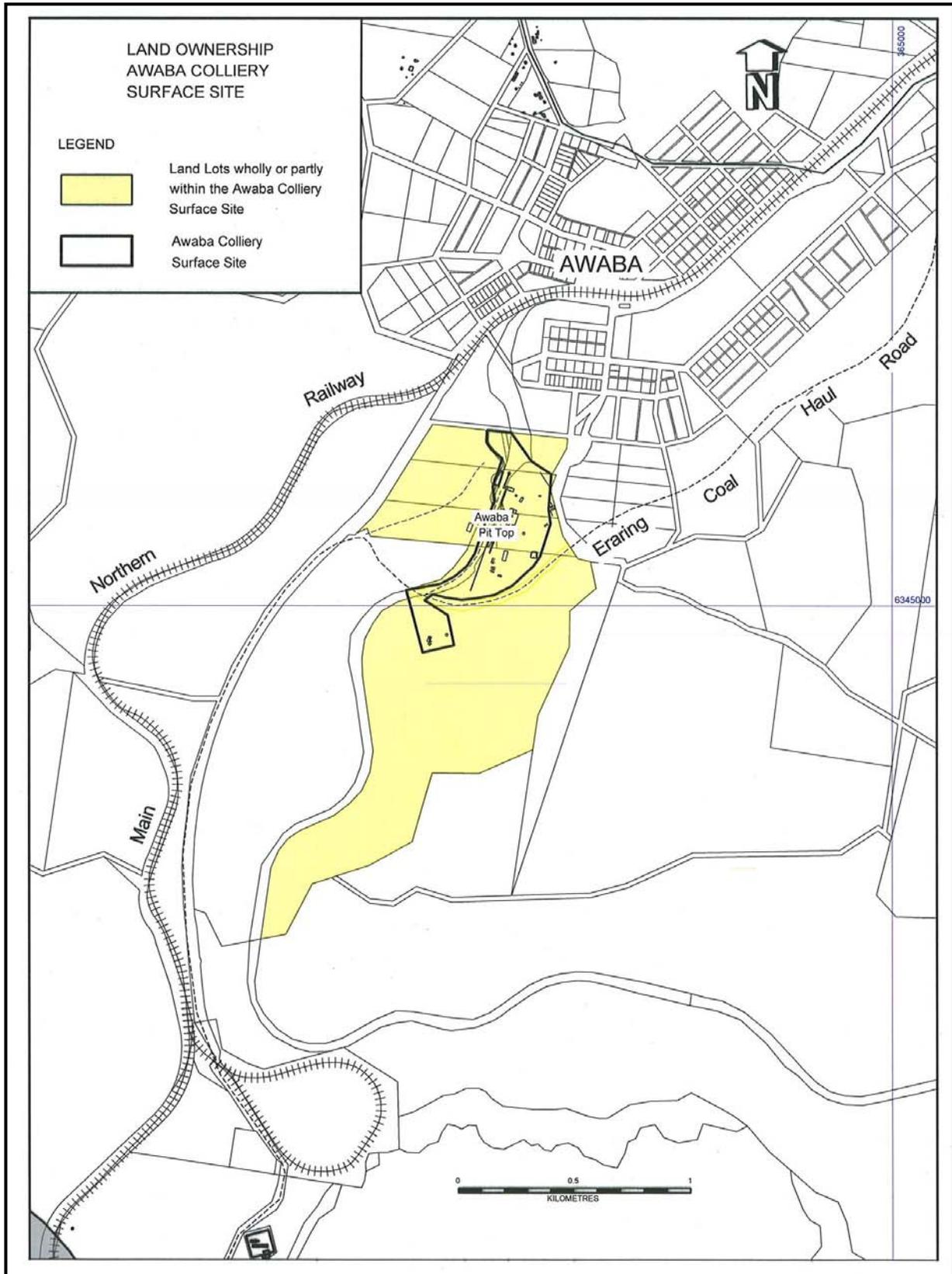
The Awaba Colliery Surface Site is located on privately owned land, Crown Land and land owned by the Lake Macquarie City Council (LMCC). Land title descriptions and ownership associated with the Awaba Colliery surface site is listed in **Table 2** and shown in **Figure 4** below.

Table 2 – List of Land Titles for the Awaba Colliery Surface Site

Lot	DP	Owner
1	582126	The State of New South Wales
1	816752	The State of New South Wales
7305	1149082	The State of New South Wales
214	755207	The State of New South Wales
215	755207	The State of New South Wales
5	239629	The State of New South Wales
6	239629	Alfred Le Motle
7	239629	Lake Macquarie City Council
8	239629	Lake Macquarie City Council
9	239629	The State of New South Wales
10	239629	The State of New South Wales

212	755207	The State of New South Wales
213	755207	The State of New South Wales
216	755207	The State of New South Wales

Figure 4 – Awaba Colliery Surface Site Land Ownership



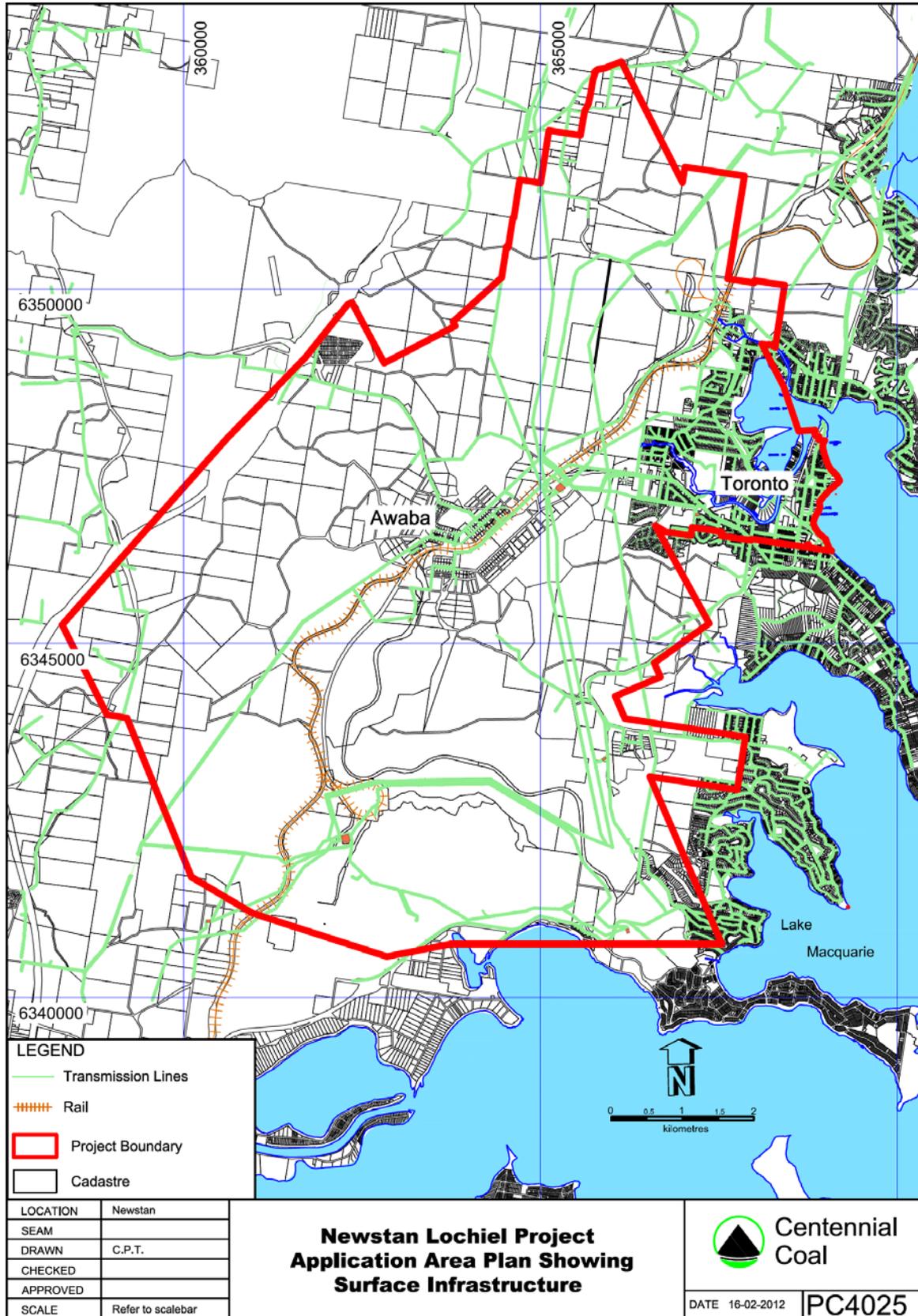
2.6 Public Utilities and Infrastructure

Public and private infrastructure and utilities (non-Centennial owned) within the Newstan Colliery Extension of Mining Project Area include:

- Electricity transmission lines and sub stations;
- Water and sewerage lines
- Communication towers and cables
- Paved and unsealed roads;
- Main Northern Railway Line;
- Residential and industrial buildings;
- A number of recreational clubs and associated infrastructure
- Quarries; and
- Awaba Waste Management Facility.

Figure 5 details the location of known infrastructure within the Project Application Area.

Figure 5 - Known Infrastructure Within the Project Application Area



2.7 Ecology

2.7.1 Potential Threatened Flora

Based on suitable habitat available within the Project Application Area, a search of the NSW Wildlife Atlas database, and on a Protected Matters Search a list of potentially occurring significant flora species from the locality was compiled which included threatened flora species (Endangered or Vulnerable) and flora populations listed under the Threatened Species Conservation Act 1995 or Environment Protection and Biodiversity Conservation Act 1999. A total of 16 threatened species and one endangered population were identified as having potential to be recorded within the locality and are detailed in **Table 3** below.

Table 3 – Potential Threatened Flora with the Project Application Area

Scientific Name	Common Name	TSC Act Status	EPBC Act Status
Species			
Acacia bynoeana	Bynoe’s Wattle	E	V
Angophora inopina	Charmhaven Apple	V	V
Caladenia tessellate	Tessellated Spider Orchid	E	V
Callistemon linearifolius	Crimson Bottlebrush	V	-
Corybas dowlingii	Red Helmet Orchid	E	-
Cryptostylis hunteriana	Leafless Tongue-Orchid	V	V
Cynanchum elegans	White-flowered Wax Plant	E	-
Diuris praecox	Rough Doubletail	V	V

Grevillea parviflora subsp. Parviflora	Small-flower Grevillea	V	V
Maundia triglochinos	-	V	-
Melaleuca biconvexa	Biconvex Paperbark	V	V
Pterostylis gibbosa	Illawarra Greenhood	E	E
Pultenaea maritime	Coast Headland Pea	V	-
Rhizanthella slateri	Eastern Underground Orchid	V	E
Syzygium paniculatum	Magenta Lilly Pilly	E	V
Tetradlea juncea	Black-eyed Susan	V	V
Population			
Eucalyptus parramattensis subsp. parramattensis population in the Wyong and Lake Macquarie Local Government Areas.		E Pop	-

2.7.2 Potential Threatened Fauna Species

Following literature and database reviews, the potential use of the Project Application Area by threatened fauna species (as listed under the TSC Act 1995 and/or EPBC Act 1999) was assessed. 17 threatened fauna species, detailed in **Table 4** below, have the potential to occur within the Project Application Area.

Table 4 - Potential Threatened Fauna within the Project Application Area

Scientific Name	Common Name	TSC Act Status	EPBC Act Status
Chalinolobus dwyeri	Large-eared Pied Bat	V	V

Miniopterus australis	Little Bent-wing Bat	V	-
Miniopterus schreibersii oceanensis	Large Bent-wing Bat	V	-
Mormopterus norfolkensis	East Coast Freetail-bat	V	-
Petaurus norfolcensis	Squirrel Glider	V	-
Pteropus poliocephalus	Grey-headed Flying -fox	V	V
Saccolaimus flaviventris	Yellow-bellied Sheathtail Bat	V	-
Tyto novaehollandiae	Masked Owl	V	-
Tyto tenebricosa	Sooty Owl	V	-
<i>Calyptorhynchus lathami</i>	Glossy Black-cockatoo	V	-
Callocephalon fimbriatum	Gang-gang Cockatoo	V	-
Lathamus discolor	Swift Parrot	E	E
Ninox connivens	Barking Owl	V	-
Climacteris picumnus	Brown Treecreeper	V	-
Anthochaera Phrygia	Regent Honeyeater	E	E
Dasyurus maculatus maculatus	Spotted-tailed Quoll	V	E
Petaurus australis	Yellow-bellied Glider	V	-

2.7.3 Vegetation Communities

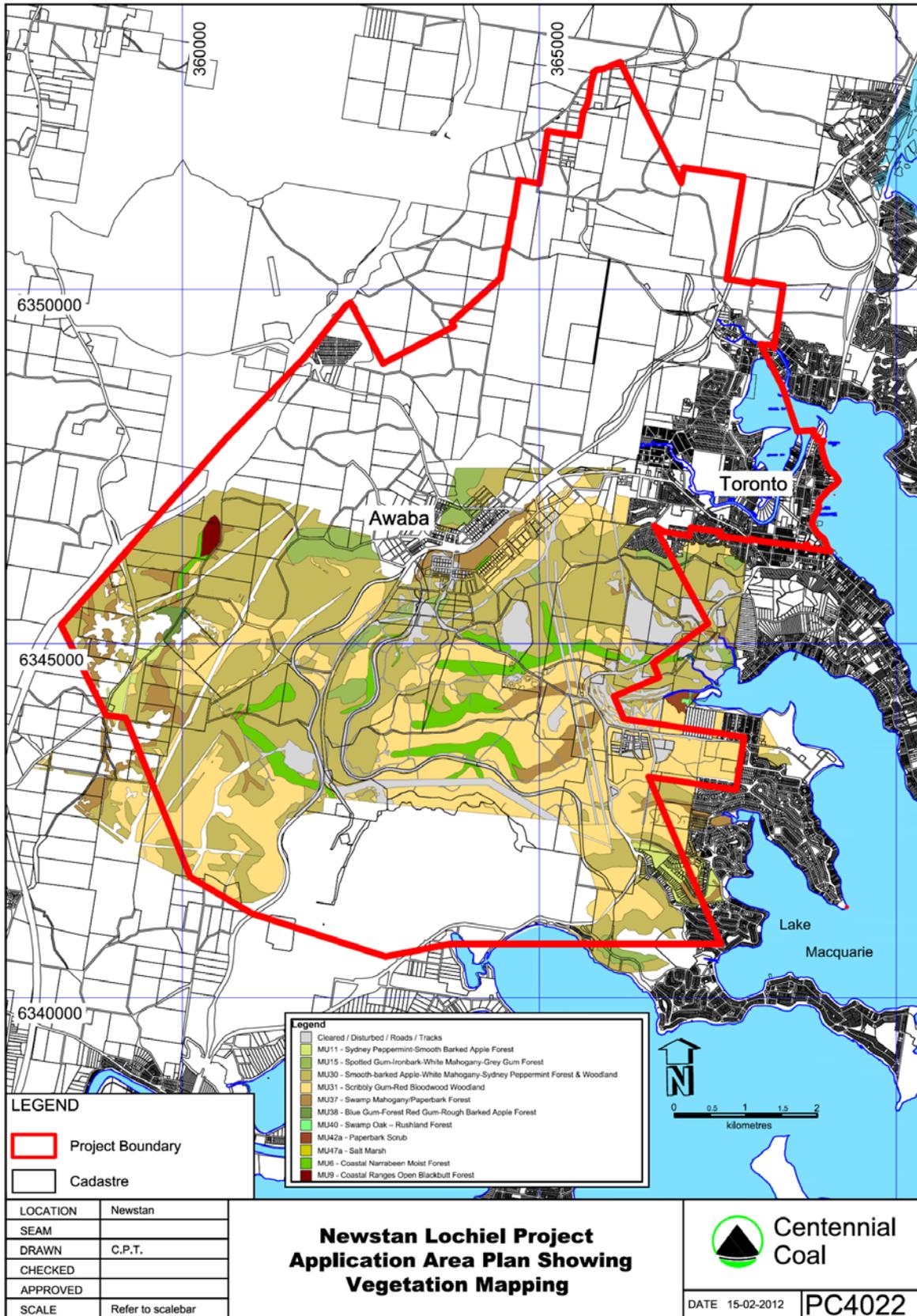
Eleven vegetation communities have been mapped within the Project Application Area and are detailed in **Table 5** and shown on **Figure 6** below.

Table 5 - Vegetation Communities within the Study Area

Vegetation Community Name	Analogous to LHCCREMS MU	Corresponds to TSC Act EEC
Coastal Narrabeen Moist Forest	MU 6	
Coastal Ranges Open Forest	MU 9	
Coastal Sheltered Apple - Peppermint Forest	MU 11	
Coastal Foothills Spotted Gum - Ironbark Forest	MU 15	
Coastal Plains Smooth-barked Apple Woodland	MU 30	
Coastal Plains Scribbly Gum Woodland	MU 31	
Swamp Mahogany - Paperbark Forest	MU 37	Swamp Sclerophyll Forest of the Floodplains of the North Coast, Sydney Basin and Southeast Corner Bioregions
Redgum - Rough-barked Apple Forest	MU 38	River Flat Eucalypt Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and Southeast Corner Bioregions
Swamp Oak - Rushland Forest	MU 40	Swamp Oak Floodplain Forest of the New South Wales North Coast,

		Sydney Basin and Southeast Corner Bioregions.
Riparian Melaleuca Swamp Woodland & Melaleuca Scrub	MU 42 MU 42a	Swamp Sclerophyll Forest of the Floodplains of the North Coast, Sydney Basin and Southeast Corner Bioregions
Saltmarsh	MU 47a	Coastal Saltmarsh in the New South Wales North Coast, Sydney Basin and Southeast Corner Bioregions.

Figure 6 – Mapped Vegetation Communities within the Project Application Area



2.8 Surface Water

Within the Project Application Area, there are several creek systems, including:

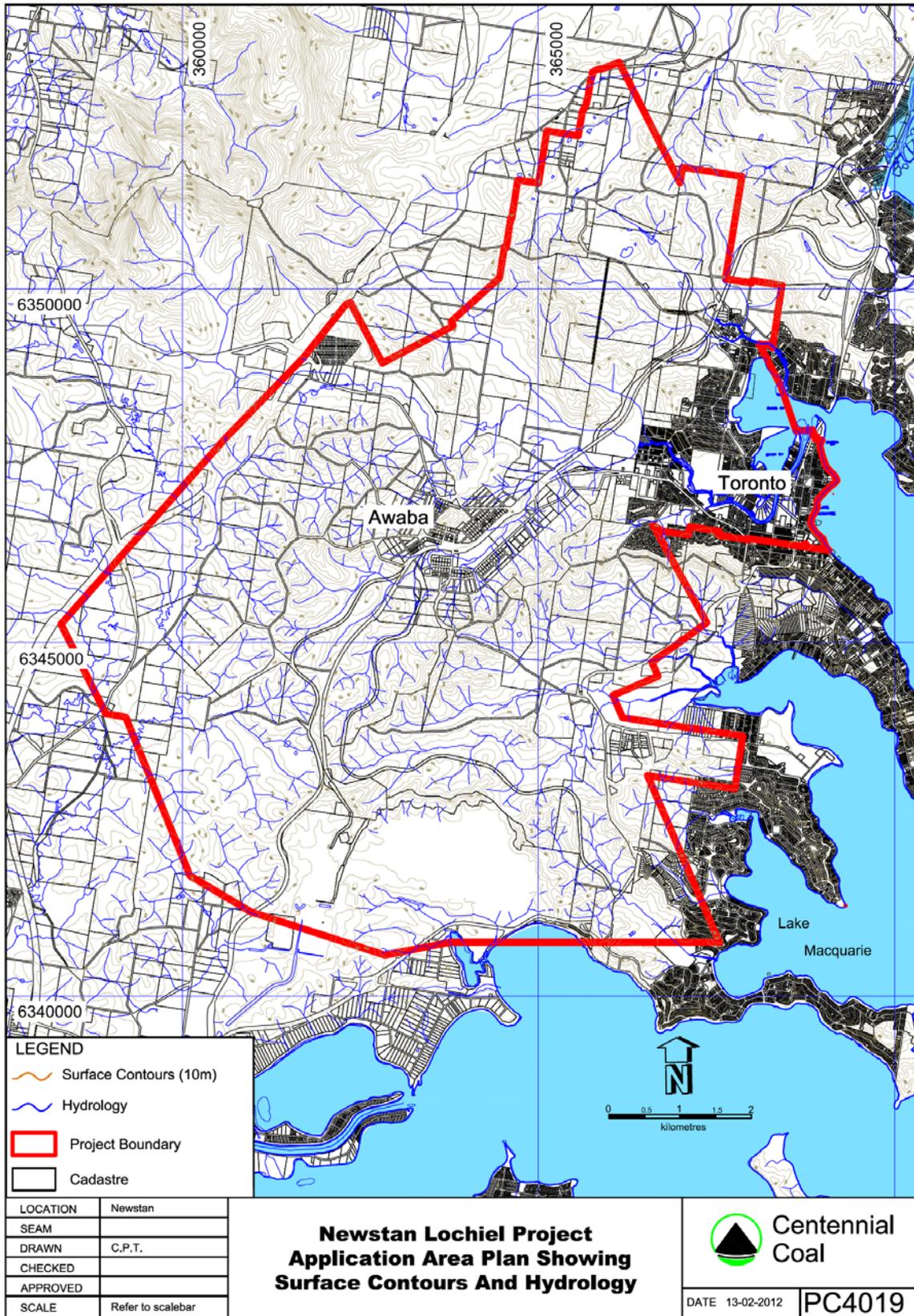
- LT creek which flows in an easterly direction into Fennel Bay;
- Stockyard Creek and three tributaries of Kilaben Creek which all flow in an easterly direction into Kilaben Bay;
- Stony Creek which flows in a north easterly direction along the railway line south of Awaba, and eventually into Fennell Bay; and
- Lords Creek and its associated tributaries which flow in a westerly direction into Jigadee Creek.

The majority of the creeks are ephemeral with some sections of the lower reaches being perennial flowing into estuarine waters. **Figure 7** details the surface hydrology within the Project Application Area.

2.9 Archaeology

A number of Archaeological sites are located throughout the Project Application Area which includes rockshelters, grinding grooves, scarred trees, and artefact scatters.

Figure 7 - Surface Hydrology within the Project Application Area



3.0 CURRENT APPROVED OPERATIONS

3.1 Newstan Colliery

Newstan Colliery was granted Development Consent DA 73-11-98 by the then Minister for Urban Affairs and Planning on 14 May 1999 under Part 4 of the EP&A Act. Centennial Newstan is approved under DA 73-11-98 to undertake the following activities:

- Extraction of up to 4 Mtpa of ROM coal from within the Newstan Colliery Life Extension Area;
- Process up to 4 Mtpa of ROM coal through the Newstan Colliery CPP;
- Export up to 3 Mtpa of coal through the Newstan Colliery rail loading facilities by train;
- Transport up to 2 Mtpa of coal by truck to the Eraring Power Station using the existing Newstan-Eraring private haul road;
- Receive ROM coal from the Mandalong Mine by truck;
- Receive up to 880,000 tpa of coal from the Awaba Colliery by truck;
- Transport reject material from the Newstan Colliery CPP to the Northern Reject Emplacement Area;
- Transport reject material from the Newstan Colliery CPP to the Southern Reject Emplacement Area (SREA);
- Construction of the SREA to RL60; and
- Operate activities 24 hours per day 7 days a week.

3.2 Awaba Colliery

Awaba Colliery was granted Project Approval (PA 10_0038) on 13 May 2011 by the Planning and Assessment Commission of NSW. The Awaba Colliery Project Approval approves the Awaba Colliery to:

- Continue bord and pillar development and pillar extraction by continuous miners within the "Main South Area";

- Extend bord and pillar development and pillar extraction by continuous miners into the “East B” Area;
- Produce, handle and distribute up to 880,000 tonnes of ROM coal per annum (financial year) using existing surface facilities;
- Continue the use of existing ancillary surface facilities;
- Expand the existing Pollution Control Dam; and
- Continue the delivery of coal to the Newstan Colliery and/or the Eraring Power Station using the existing private haul road/transport facilities.

The Awaba Colliery is scheduled to cease mining operations by the end of 2011 with the demolition of surface infrastructure anticipated to commence in 2012.

3.3 Infrastructure

3.3.1 Newstan Colliery

The existing Newstan Colliery Surface Site is located adjacent to Miller Road, near the township of Fassifern. The Newstan Colliery surface infrastructure includes:

- An administration building;
- A bathhouse with adequate facilities and services for up to 350 people;
- A CPP and coal storage bins with a design capacity in excess of 4 million tonnes per annum;
- Various workshops, service buildings and material storage sheds;
- Visitor and employee parking areas;
- A men and materials drift winder for access to underground workings;
- A coal conveyor drift and coal conveyor drive house to transport coal from the underground workings to the surface;
- Ventilation fans;
- A ballast borehole at Awaba;
- Coal stockpile areas;

- A rail loop;
- Reject emplacement areas; and
- A comprehensive water management control system and associated infrastructure.

The Newstan Colliery also operates a range of ancillary surface infrastructure for the provision of water, electricity, ventilation and communications to the site and removal of gas from the underground workings.

3.3.2 Awaba Colliery

The Awaba Colliery surface site is located off Wilton Road at Awaba. Surface infrastructure at the Awaba Colliery comprises:

- A mine access drift;
- Coal handling and preparation infrastructure;
- Workshop, services and administration buildings; and
- Water management and pollution control infrastructure.

Centennial Newstan has approval for the construction and operation of a ventilation fan at the Awaba Colliery Surface Site that has yet to be constructed. Construction of the ventilation fan is anticipated to commence in June 2012.

3.4 Mining Method and Equipment

Newstan Colliery has previously undertaken underground mining using a combination of continuous miner and longwall mining methods. These methods range from first workings development to secondary extraction. A range of ancillary equipment is also utilised in the underground workings including equipment for the transport of men and materials underground.

3.5 Coal Handling and Transport

ROM coal produced by the Newstan Colliery is transported underground from the working face to the surface and delivered to the Newstan CPP by a conveyor system. ROM coal may be temporarily stored in the existing 80,000 tonne ROM coal storage area, near the CPP, prior to being conveyed to the CPP via a 4,000 tonne feed bin.

Coal products from the CPP are either delivered to:

- The truck loading bin for trucking of domestic thermal coal to the Eraring Power Station via the Newstan-Eraring private haul; or
- The stockpile areas within the Newstan Colliery rail loop where it is loaded on to trains and transport to the port of Newcastle, Port Kembla or the Vales Point Power Station.

3.5.1 Domestic Coal Transportation

Domestic coal is delivered by conveyor from the CPP to the 2000 tonne truck loading bin prior to being loaded onto trucks and transported to Eraring Power Station via the Newstan-Eraring private haul road.

Domestic coal may also be stockpiled within the Newstan rail loop before it is loaded onto trains by front end loaders. The coal is then transported by rail to the Vales Point Power Station.

3.5.2 Export Coal Transportation

Export coal product produced from the Newstan Colliery CPP is transported by truck from the 2000 tonne truck loading bin and stockpiled within the central portion of the

existing rail loop. Coal is then loaded by front end loaders onto the trains for transportation along the Main Northern Railway to the port of Newcastle or Port Kembla. The existing export coal stockpile capacity within the rail loop is approximately 180,000 tonnes, with trains ranging in size from 2,100 tonnes to a maximum of 3,000 tonnes.

DA 73-11-98 approves the stockpile to be progressively increased in size up to 400,000 tonnes and the rail loading capacity to a maximum of 4,000,000 tonnes per annum subject to the construction and operation of an automatic train loadig facility once coal exports through the rail loop exceed 3 Mtpa. The approval further allows for train sizes to be increased to a maximum of 4,000 tonnes a train and the facility to be used to load up to 8 trains per day, 24 hours per day, 365 days per year.

3.5.3 Reject Management

Fine reject material, produced from the washing of coal through the Newstan CPP is pumped to the approved Newstan Colliery SREA. The SREA has an approved development area of 75 hectares, which equates to an emplacement volume of approximately 12.3 million cubic metres. The SREA has been designed to be developed in a series of stages to minimise the land area that needs to be cleared at any time. This sequential development also allows a free-draining and stable final landform to be readily achieved if emplacement in this area ceases at any stage of the development. A filter wall and bore are strategically located within the confines of the tailings dam which allows excess water to be decanted from the tailings dam into underground workings. The decanted water is recycled for reuse in the mine and the CPP.

Coarse reject material is transported by truck from the CPP to the SREA for emplacement or use in the construction of the dam wall. Some coarse reject material is transported to the Northern Reject Emplacement Area (NREA) where it is used as a capping material in the rehabilitation process.

3.6 Water Management

The water management system at Newstan Colliery is comprised of both surface and underground water and is a complex system that has been progressively developed over the life of the mine. The water management system has been designed to:

- Maximise the separation of clean and dirty water systems;
- Manage water discharge from site, in terms of volume and quality, to a level that is acceptable for environmental management and community expectations;
- Minimise water discharges from the premises by maximising, where practicable, opportunities for the reuse and recycling of water on site; and
- Manage discharge to natural waterways in accordance with conditions of the Environmental Protection Licence or as agreed to by the Office of Environment and Heritage.

3.7 Approvals, Leases and Licences

3.7.1 Newstan Colliery Development Consents

Newstan Colliery was granted Development Consent by the (then) Minister for Urban Affairs and Planning on the 14 May 1999 for the range of activities detailed and assessed within the Newstan Colliery Life Extension Project Environmental Impact Statement (Newstan EIS). Modifications to DA 73-11-98 include:

- Approval to allow for the continuation of underground mining within longwall panel 24 and the relocation of an approved, however not yet constructed, ventilation shaft and associated service corridors granted on 23 September 2007;
- Approval to wash coal from the Centennial Mandalong Mine at Newstan Colliery granted on 27 November 2009; and
- Approval to wash coal from the Centennial Awaba Colliery at Newstan Colliery, the acceptance of stone reject material from the Centennial Mandalong Mine at Newstan Colliery and the establishment of a 30,000 tonne emergency coal stockpile granted on 26 November 2010.

In 2011, Centennial Newstan submitted an application to DP&I to modify DA 73-11-98 to allow for the recommencement of mining using bord and pillar mining methods within an area referred to as Main West. At the time of submitting this document, approval for the Main West Mining Project has not yet been obtained. **Figure 8** details the currently approved development consent area for the Newstan Colliery. **Table 6** contains a list of the current consents relevant to the Newstan Colliery operation.

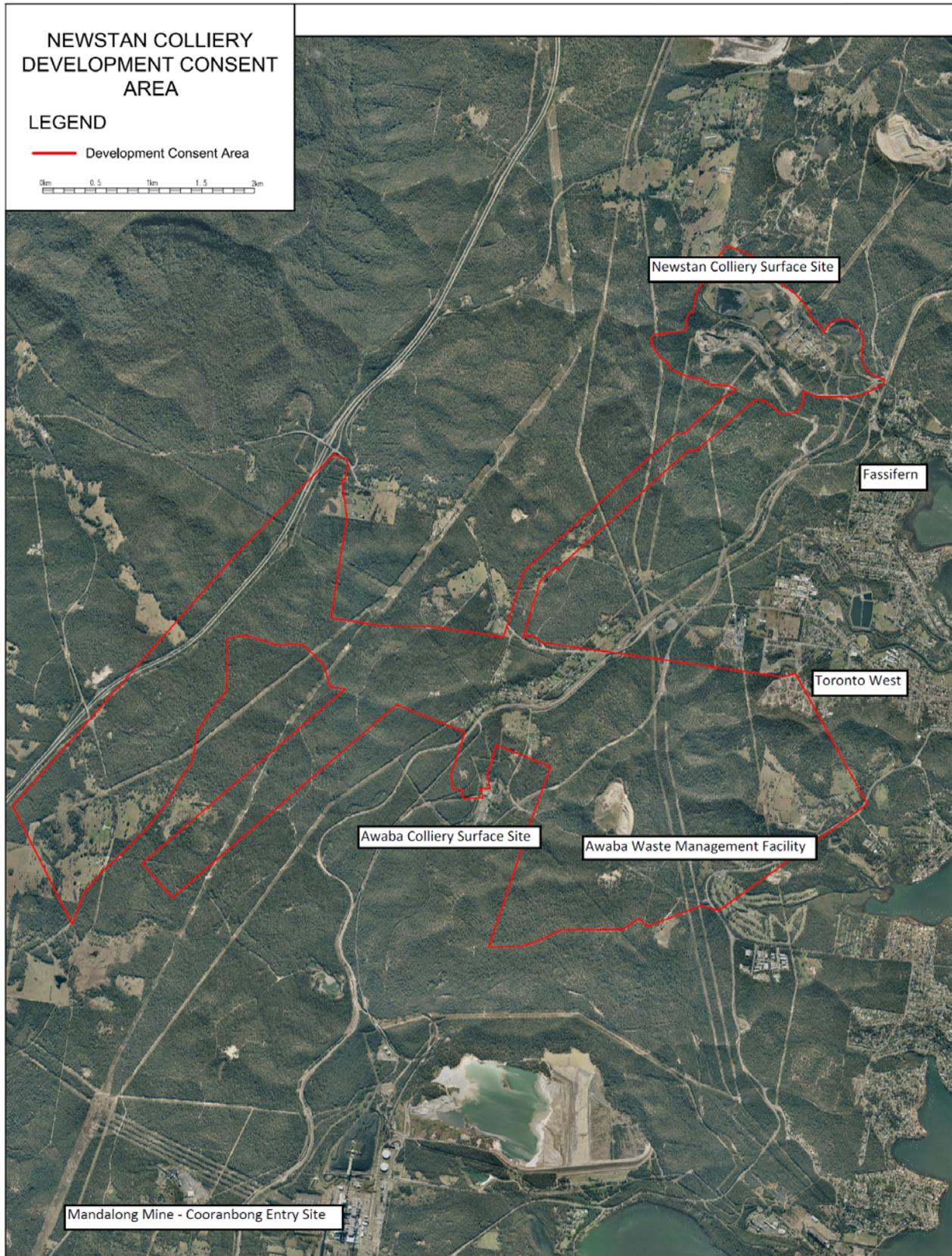
Table 6 – Newstan Colliery Development Consents

Reference	Description	Expiry date
DA 73-11-98	Approves the extension of Newstan underground coalmine and upgrade of associated surface facilities on May 14 1999 (modified in 2007, 2009 and 2010).	6/07/2020
DA 83/877	Authorises the transport of coal via the Newstan–Eraring private haul road to Eraring and to the Newstan CHPP from Awaba Colliery surface facilities.	N/A
DA 93/00080	Allows the development of coal storage and a rail loading area.	N/A
DA 88/0645	Permits the establishment of a coal storage area and water management facilities adjacent to rail loop.	N/A
DA 99/02806/1N	Permits the establishment of an emergency egress and bulk materials delivery facility.	N/A
DA 95/00152	For addition to lease area for land under ML 1380.	N/A

3.7.2 Awaba Colliery Project Approvals

Awaba Colliery was granted Project Approval (PA 10_0038) on 13 May 2011 by the Planning and Assessment Commission of NSW for the Awaba Colliery Mining Project. The Awaba Colliery Project Approval expires on 31 December 2015.

Figure 8 – Newstan Colliery Development Consent Area



3.7.3 Centennial Newstan Mining Leases and Exploration Licences

Centennial Newstan holds a number of mining authorities that comprises several exploration licences, authorisations, consolidated mining leases, private land leases, mining purpose leases and subleases of mining leases. **Table 7** contains a list of the mining leases and **Table 8** contains a list of exploration licences relevant to the current and proposed Newstan Colliery operations. The relevant mining leases and exploration licences are detailed on **Figure 9** and **Figure 10** respectively.

Table 7 – Centennial Newstan Mining Leases

Lease	Expiry Date
CCL727	11/08/27
CCL746	31/12/28
CCL763	09/06/22
CCL764	18/05/21
ML1380	18/09/16
ML1452	06/07/20
ML1480	20/07/23
ML1587	23/10/27
MPL304	25/03/14
MPL305	25/03/14
MPL327	05/08/15
MPL328	05/08/15
PLL497	24/08/17

Table 8 – Exploration Licences

Licence	Expiry Date	Holder
A399	17/11/2012	Centennial Newstan Pty Limited
EL4443 (Part)	23/10/2012	Centennial Mandalong Pty Limited
EL4444 (Part)	23/10/2012	Centennial Myuna Pty Limited
EL5138	09/10/2011	Centennial Newstan Pty Limited
EL6641	23/10/2012	Centennial Newstan Pty Limited

The Newstan Colliery has eleven benefiting unregistered subleases with adjoining mining lease holders to mine various coal seams. Recent changes to the Mining Act 1992 have resulted in all the subleases held by Centennial Newstan being deregistered. Newstan Colliery is in the process of making application to have the various subleases reregistered.

Figure 9 – Centennial Mining Leases Relevant to the Newstan Colliery

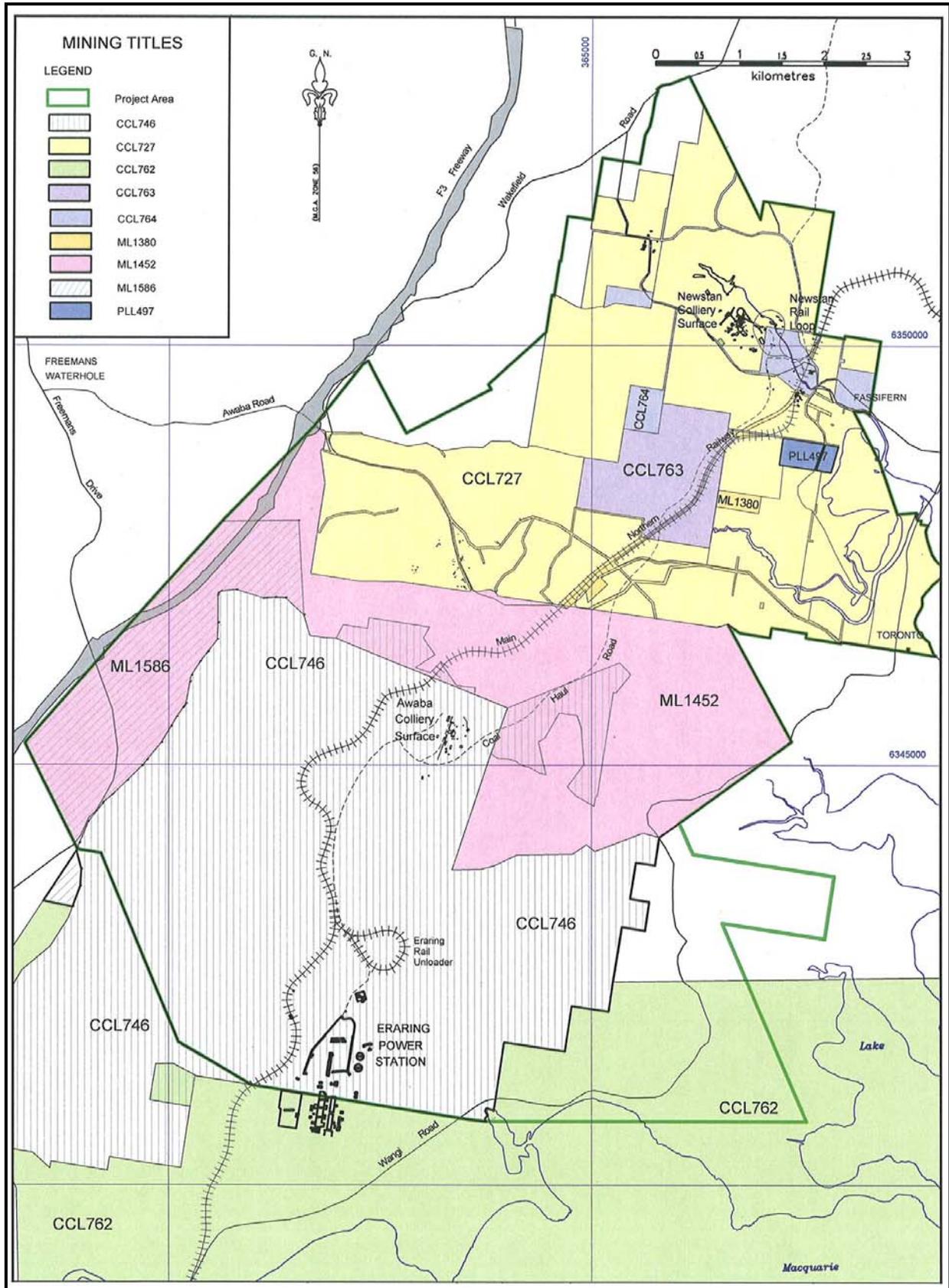
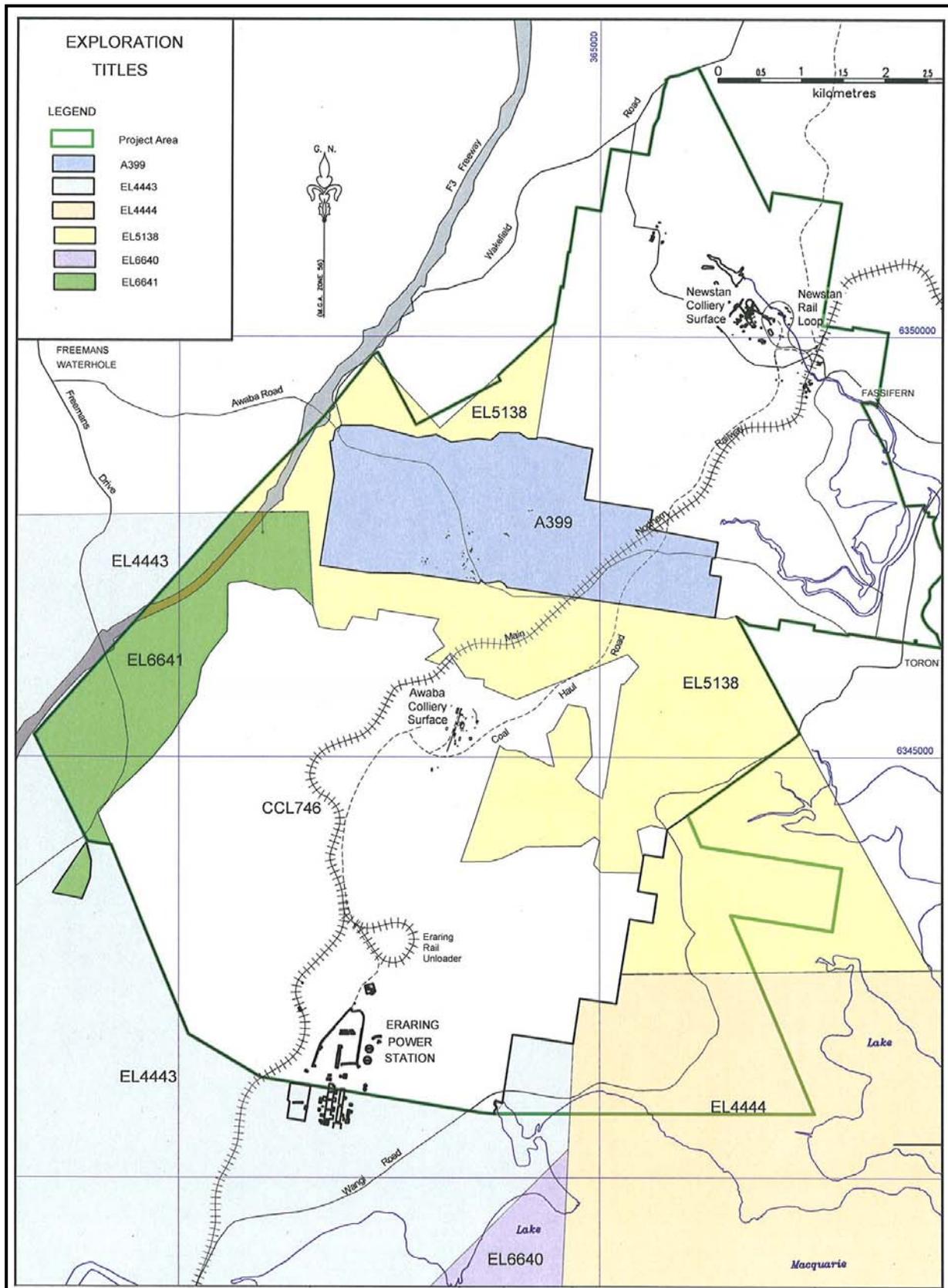


Figure 10 – Centennial Exploration Licences Relevant to the Newstan Colliery



3.7.4 Environmental Protection Licences

Newstan Colliery currently holds EPL 395. Awaba Colliery currently holds EPL 443.

3.8 Environmental Management System

The Newstan and Awaba Collieries have an established Environmental Management System (EMS) that has been developed in accordance with the Centennial Coal Environmental Management System Framework (October 2011).

The EMS for both collieries has been developed and implemented to ensure the effective management of environmental issues and compliance with all regulatory requirements while providing a means for continued improvement in the environmental performance of the sites. The major components of the EMS include:

- Centennial Coal's Environmental Policy;
- Various management plans, other management documents and environmental monitoring programmes; and
- An Environmental Management Strategy.

The existing environmental management plans in place the Newstan Colliery include:

- Noise Management;
- Dust Management Plan;
- Flora & Fauna Management Plan;
- Water Management Plan;
- Wetland Management Plan;
- Archaeology & Cultural Heritage Plan;
- Landscape Management Plan;
- Fine Rejects Management Plan;
- Erosion & Sediment Control Plan;
- Land Management Plan;
- Soil Stripping Management Plan; and

- Bush Fire Management Plan.

Management plans at the Newstan Colliery that relate to the management of subsidence include:

- Longwall Subsidence Management Plan - Longwall 25;
- Public Safety Management Plan;
- Transgrid Transmission Towers Subsidence Management Plan - LW25;
- Hawkmount Road Management Plan - Longwall 25; and
- Longwall 25 - Road and Track Management Plan.

The existing environmental management plans in place the Awaba Colliery include:

- Air Quality and Greenhouse Gas Management Plan;
- Biodiversity Management Plan; and
- Noise Management Plan.

Management plans at the Awaba Colliery that relate to the management of subsidence include:

- Strata Management Plan;
- Built Features Management Plan;
- Public Safety Management Plan;
- Spontaneous Combustion Management Plan; and
- Rehabilitation & Environmental Management Plan.

4.0 PROPOSED PROJECT

4.1 Background

The Newstan Colliery Extension of Mining Project is a potential underground coal mining operation producing a high value low sulphur semi-soft coking coal product as well as an export and/or domestic thermal coal product/s. It is located in the Newcastle Coalfield of New South Wales, near the townships of Fassifern and Awaba. Centennial Newstan is seeking approval for the Newstan Colliery Extension of Mining Project (the Project) under Part 4 Division 4.1 of the EP&A Act. Specifically the Project proposes to:

- Expand its underground mining operations both within and beyond the existing approved Newstan Colliery Life Extension Area utilising a combination continuous miner and longwall mining methods;
- Extract up to 4.5 million tonnes per annum (Mtpa) of run of mine (ROM) coal;
- Utilise and upgrade the existing surface infrastructure of the Newstan and Awaba collieries;
- Construct a new men and materials drift at the Awaba Colliery Surface Site for access to the Newstan Colliery underground workings;
- Install and operate additional surface infrastructure for gas drainage, greenhouse gas capture and abatement, ventilation, support buildings, electrical reticulation, water reticulation, water management, communications and other services;
- Continue to operate the underground water management systems of both the Newstan and Awaba Collieries;
- Operate the Awaba Colliery surface water management system including all existing discharge points;
- Increase manning to 350 employees;
- Transfer water between the Newstan Colliery, the Awaba Colliery and the Mandalong Mine water management system;
- Continue to utilise the existing 'ballast borehole' site and services compound at Awaba;

- Undertake ongoing exploration drilling activities;
- Progressively rehabilitate disturbed areas;
- Continue to operate 24 hours per day seven days per week.

4.2 Project Area

The Project Area, as shown in **Figure 1**, is located on the western side of Lake Macquarie in the Lake Macquarie LGA. The Project area includes the Newstan and Awaba Colliery Surface Sites including the Newstan Colliery Ballast Borehole and services site off Forest Road at Awaba, the existing and approved mine workings of the both the Newstan and Awaba Collieries, and the proposed extension of mining areas of the Newstan Colliery Extension of Mining Project. The Project Area will also encompass additional surface infrastructure areas that may be remote from the Newstan or Awaba Colliery Surface Sites which will be required for gas management, water supply and management, ventilation, electricity reticulation or communications. Infrastructure required to support the Project is discussed in more detail in **Section 4.5**.

4.3 Mining Method and Equipment

Mining is proposed to be undertaken within the Project Area using a combination of longwall and continuous miner methods and will include bord and pillar first working development, partial pillar extraction and full extraction. Mining will be designed to extract up to 4.5 Mtpa of ROM coal from within the proposed mining areas. Mine design criteria will be established during the development of a final mine design to take into consideration potential infrastructure, social and environmental impacts. A detailed subsidence assessment will be undertaken to support the impact assessment process.

4.4 Coal Handling

ROM coal will be transported from the underground workings to the Newstan Colliery Surface Site by a conveyor system at a rate of up to 4.5 Mtpa. Once the coal reaches

the Newstan Colliery Surface Site, all coal will be handled in accordance with approved operations managed by Centennials Northern Coal Services business unit. All surface coal handling operations undertaken at the Newstan Colliery form part of a separate project currently being considered by Centennials Northern Coal Services and as such does not form part of this Project.

As it is anticipated that the Awaba Colliery will cease underground mining activities by the end of 2012, Awaba Colliery will no longer be required to handle, process or transport coal from its Surface Site. As such, no coal handling operations at the Awaba Colliery are required to be considered as part of this Project.

4.5 Infrastructure

The proposed Project will utilise the existing infrastructure of both the Newstan and Awaba Collieries. Upgrades to the existing Awaba Colliery buildings, including administration buildings, bathhouse facilities and workshop will be undertaken to support the workforce required for the Project when they relocate to the Awaba Surface Site from the Newstan Colliery Surface Site.

A new men and materials drift is proposed to be constructed as part of the Project at the Awaba Colliery Surface Site to provide an alternative access to the Newstan Colliery underground workings. The existing Newstan Colliery offices, bathhouse facilities and workshop will continue to be utilised until upgrades to infrastructure at the Awaba Colliery Surface Site and the construction of the new men and materials drift have been completed. Once the Newstan Colliery workforce relocates to the Awaba Colliery, the surface infrastructure at the Newstan Colliery Surface Site including administration building, bathhouse and workshops will continue to be utilised by Centennials Northern Coal Services business unit. The ongoing use of infrastructure at the Newstan Colliery once the workforce relocates to Awaba will be considered and assessed within the Northern Coal Services Coal Logistics Project EIS.

Ventilation shafts at both the Newstan and Awaba Collieries will continue to be utilised for the Project. The Awaba Colliery Surface Site will be the site of the approved but yet to be constructed upcast shaft and surface fans. A new downcast shaft is required to be constructed as part of the Project. The exact location of the

new downcast shaft will be determined during the preparation of the EIS however is currently proposed for an area of Crown land located adjacent to an industrial area at Rathmines.

The existing Awaba Colliery Surface Site will be utilised for services such as power, compressed air and nitrogen inertisation. Consideration will also be given to underground water supply from Awaba. Additional infrastructure for gas drainage, greenhouse gas capture and abatement, ventilation, electrical reticulation, water reticulation, water management, communications and other services will also be required. No coal handling or transport will be undertaken at the Awaba Colliery from 23 December 2011. Removal of all associated coal handling infrastructure at the Awaba Colliery Surfaces Site will commence in 2012.

Centennial Newstan also operates a small diameter shaft and services site (known colloquially as the “ballast borehole”) located off Forest Road at Awaba. The purpose of the shaft was to provide access for bulk materials such as ballast and services to the underground workings. The shaft can also be used as an escape from the underground workings in the event of an emergency. The ballast borehole shaft will continue to be utilised by the Project.

Any additional infrastructure required to support the Newstan Colliery surface operations will be considered as part the Northern Coal Services – Coal Logistics Project currently being considered by Centennial. As such, any new surface coal handling infrastructure that may be required is not considered part of this Project.

4.6 Water Management

4.6.1 Underground Water Management

Underground water management will be undertaken as part of this Project and will consist of water transfers between the underground water storages of the Awaba Colliery, the Newstan Colliery and the Mandalong Mine. Extraction of underground water at Newstan will occur via the Fassifern Pump Station. A review of the volume of underground water required to be extracted will be considered as part of the preparation of the EIS.

Extraction of water from the Awaba underground water storages can be by a number of existing licenced boreholes covered by EPL 443. The Project will determine the

water extraction requirements through the Awaba Colliery bore network as part of the EIS.

4.6.2 Surface Water Management

Once water extracted through the Fassifern Pump Station reaches the Newstan Colliery Surface Site, the water will be managed in accordance with the Newstan Colliery surface water management system. The surface water management systems at the Newstan Colliery and the Mandalong Mine – Cooranbong Entry Site will be managed by the Centennials Northern Coal Services business unit and forms part of the Northern Coal Services - Coal Logistics Project currently being considered by Centennial. As such, surface water management at the Newstan Colliery does not form part of this Project.

Surface water management at the Awaba Colliery will be continued including the utilisation of existing and approved underground water discharge points. Any upgrades to the Awaba Colliery surface water management system will be considered during the preparation of the EIS.

4.7 Hours of Operation and Personnel

It is anticipated that the Newstan Colliery Extension of Mining Project will require approximately 350 full time employees including contractors. The exact number of personnel required to be employed by Centennial Newstan as part of the Project will be determined during the preparation of the EIS. Employees will initially be located at the Newstan Colliery Surface Site until upgrades to the Awaba Colliery surface infrastructure and the construction of proposed new men and materials drift has been completed. Once these have been completed, it is anticipated that the majority of the workforce will relocate to the Awaba Colliery Surface Site. Centennial Newstan will continue to operate 24 hours seven days a week at both the Newstan and Awaba Collieries.

4.8 Additional Licences and Approvals

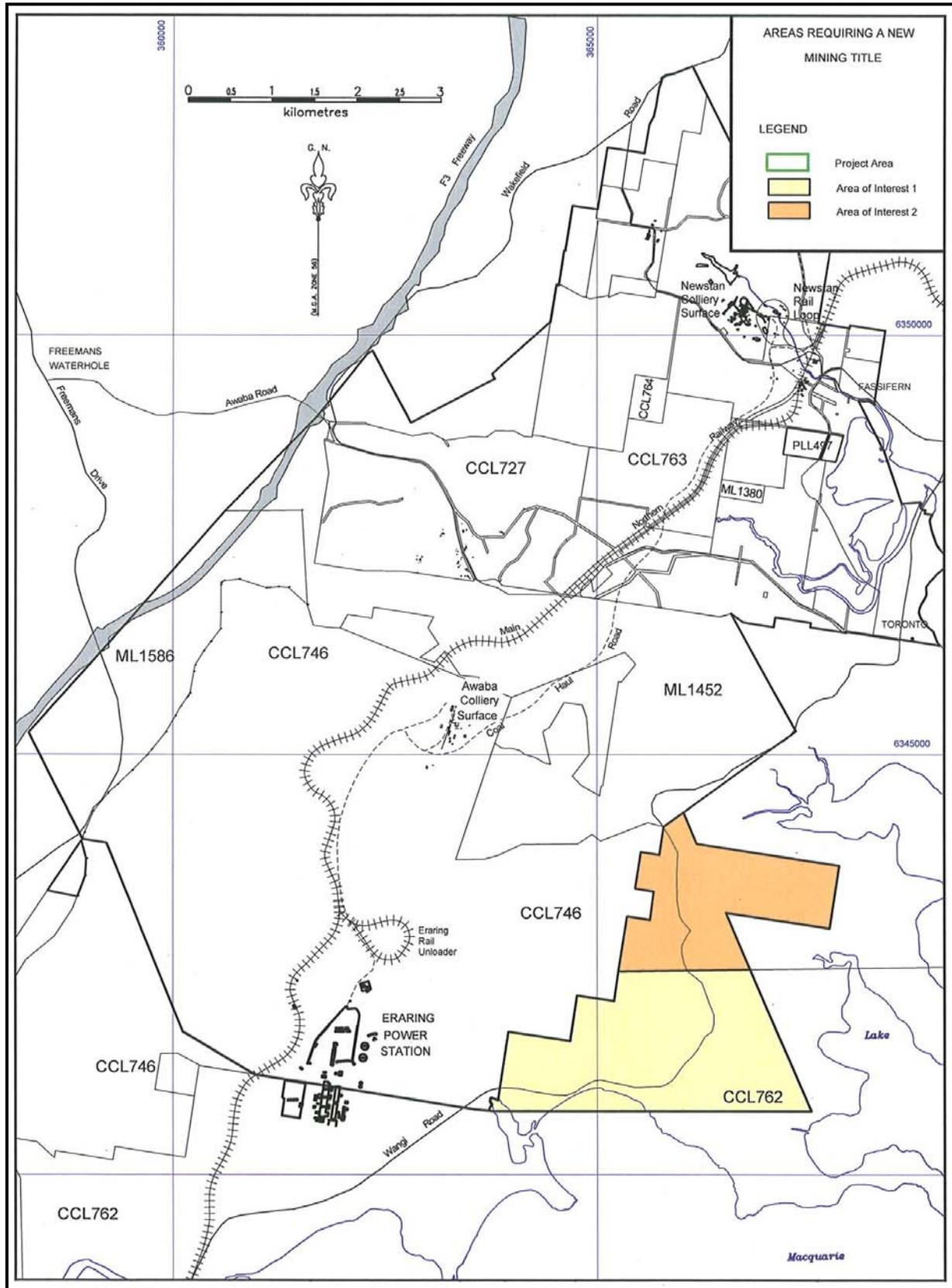
While the majority of the Project Area is within existing mining leases held by Centennial Newstan, the footprint of the Project includes two distinct areas that have mining potential and will require a new mining lease to be granted. These areas are:

- Area Of Interest 1 - Part Exploration Licence No. 5138 (EL5138) held by Centennial Newstan; and
- Area Of Interest 2 - Part Exploration Licence No. 4444 (EL4444) held by Centennial Myuna Pty Limited and part Exploration Licence no. 4443 held by Centennial Mandalong Pty Limited.

For the location and extent of these areas refer to **Figure 11**.

Area 1 is an exploration title only and will need to be converted to a mining lease as part of the Project. Area 2 is within EL4443 and EL4444 and overlain by an existing mining lease being CCL762. However, CCL762 within Area 2 is limited to a depth of 5 metres below the floor of the Fassifern Seam. A new mining lease will be required for the Project from 5 metres below the floor of the Fassifern Seam to the current maximum depth for a new mining lease which is 900m below AHD.

Figure 11 – Areas Where New Mining Leases Are Required



The Newstan Colliery Extension of Mining Project, if approved will also require an Aquifer Interference Licence under Section 60 of the Water Management Act 2000 and a revised EPL to cover the Newstan Colliery mining operations.

A detailed review of all additional licences or approvals required to support the Project will be undertaken during the preparation of the EIS.

4.9 Exploration Drilling

Exploration drilling will continue to be undertaken throughout the life of the Newstan Colliery Extension of Mining Project to obtain specific geological information and to assist in the detailed mine design process.

4.10 Environmental Management System

If the Project is approved, the EMS of both the Newstan and Awaba Collieries will be updated to develop a single EMS for the underground mining and associated operations that cover the Newstan and Awaba Collieries. The EMS will be developed, taking into consideration the results of specialist studies undertaken as part of the development of the EIS.

5.0 PLANNING CONSIDERATIONS

5.1 Introduction

The Project will be assessed in full consideration of the applicable statutory planning instruments of the Commonwealth and State, as well as associated planning and environmental frameworks. This section describes the statutory planning instruments relevant to the proposed modification, and assesses their implications in relation to the required approval process.

5.2 Commonwealth Legislation

5.2.1 Environment Protection and Biodiversity Conservation Act 1999

The Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) came into effect on 16 July 2000 and is administered by the Commonwealth Department of the Sustainability, Environment, Water, Population and Communities (SEWPaC). Part 3 of the EPBC Act states that an action that has, will have or is likely to have a significant impact on a Matter of National Environmental Significance (MNES), may not be undertaken without prior approval of the Minister for SEWPaC.

An assessment of whether the Newstan Colliery Extension of Mining Project will have a significant impact on these MNES will be undertaken as part of the environmental assessment process. If required, a referral will be submitted to SEWPaC to determine if the Project is a controlled action under the EPBC Act.

5.2.2 National Greenhouse and Energy Reporting Act 2007

The National Greenhouse and Energy Reporting Act 2007 (NGER Act) provides a single National framework for the reporting and dissemination of information regarding greenhouse gas emissions, greenhouse gas projects and energy use, and production by corporations. The NGER Act mandates registration and reporting by corporations whose energy production or use, or greenhouse gas emissions meet specified thresholds. Centennial reports emissions from the corporation which includes emissions from the Newstan and Awaba Collieries.

5.2.3 Native Title Act 1994

The Native Title Act 1994 recognises that Aboriginal people have rights and interests to land which derives from their traditional laws and customs. Native title rights can include rights to: live on the land, access the land for traditional purposes, protect important places and sites, collect food and medicinal resources from native plants, hunt and fish, teach traditional law and customs, and to have input into land use practices and development planning. Native title can be negotiated in two ways; through a Native Title Claim (applications and determinations), or through an Indigenous Land Use Agreement (ILUA).

An ILUA is an agreement between a native title group and other parties who use or manage the land and waters. The ILUA process allows for negotiation between indigenous groups and other parties over the use and management of land and water resources, and the ability to establish a formal agreement. An ILUA is binding once it has been registered on the Native Title Tribunal's Register of Indigenous Land Use Agreements.

The land within the Newstan Colliery Extension of Mining Project Area is subject to an ILUA (NIA2000/001) which was entered into on 28 May 1999 by Wonnarua Nation Aboriginal Corporation and Powercoal Pty Ltd (since acquired by Centennial). As such, Centennial Newstan is bound by the terms of the ILUA.

5.3 New South Wales Legislation

5.3.1 Environmental Planning and Assessment Act 1979

The development assessment and approval system in NSW is set out in Parts 4 and 5 of the EP&A Act. A Planning and Assessment Commission determines applications for State significant development. Schedule 1 of SEPP (State and Regional Development) 2011 identifies development which is classified as State significant. The Newstan Colliery Extension of Mining Project is a State significant development listed under Schedule 1 of SEPP (State and Regional Development) 2011, as such Part 4 Division 4.1 of the EP&A Act applies.

5.3.2 Other NSW State Legislation

The provisions and requirements of additional NSW legislation will be considered and addressed within the EIS. A summary of potentially relevant Acts is included in **Table 9**.

Table 9 - Summary of NSW Legislation Relevant to the Project

Act	Relevance to the Project
Protection of the Environment Operations Act 1997 (POEO Act)	The POEO Act is administered by the Office of Environment and Heritage (OEH) and requires licensing for environmental protection, including waste generation and disposal, water, air and noise pollution. Under the POEO Act, an EPL is required for premises at which a scheduled activity is conducted. Schedule 1 of the POEO Act lists activities that are scheduled activities for the purposes of the Act. The proposed Project is a scheduled activity and will require a new EPL to be issued to support the Project.
Mining Act 1992	Centennial Newstan currently holds a number of mining leases and exploration licences issued under the Mining Act 1992 over the Project Area. If the Project is approved, new mining leases will be required in certain areas to support the Project.
Water Management Act 2000 and Water Act 1912	<p>The Water Management Act 2000 (WMA) and the Water Act 1912 are administered by the NSW Office of Water (NoW) and contains approval requirements for some developments to protect watercourses from any adverse effects resulting from works within or in proximity of these watercourses.</p> <p>The WMA is relevant to the Project as the Project Application Area is within the north and south Lake Macquarie sections of the Water Sharing Plan (WSP) for The Hunter Unregulated and Alluvial Water Sources.</p>

	<p>Centennial Newstan currently holds a number of water licences issued under the Water Act 1912. A review of these licences will be undertaken as part of the preparation of the EIS.</p> <p>The Project will also require an Aquifer Interference Licence under Section 60 of the WMA.</p>
<p>National Parks and Wildlife Act 1974 (NPW Act)</p>	<p>The National Parks and Wildlife Act 1974 (NPW Act) is administered by the National Parks and Wildlife Service (NPWS) and provides for the establishment, care, control, and management of National Parks, historic sites, nature reserves, State conservation areas, Aboriginal areas, and State game reserves. An archaeological survey will be conducted as part of the EIS, which will identify the presence of any known Aboriginal sites, as well as strategies for the management and mitigation of any identified impacts on such sites.</p>
<p>Heritage Act 1977</p>	<p>The purpose of the Heritage Act 1977 (Heritage Act) is to protect and conserve non-indigenous cultural heritage, including scheduled heritage items, sites, and relics. The Heritage Act is administered by the Heritage Branch within the OEH.</p> <p>The archaeological survey to be undertaken as part of the EIS will identify any items of heritage significance in the Project Area and recommend appropriate management strategies if and where required.</p>
<p>Threatened Species Conservation Act 1995</p>	<p>The Threatened Species Conservation Act 1995 (TSC Act) provides for the conservation of threatened species, populations, and ecological communities. The EIS will identify any threatened species, populations and ecological communities within the Project Area, as well as strategies for the management and mitigation of impacts where</p>

	required.
Dams Safety Act 1978	<p>The Dam Safety Committee plays a role in determining the type and extent of coal mining allowed in the vicinity of prescribed dams and their storages. The extent of mining permitted near a dams depends on the mining geometry (i.e. coal pillar dimensions, size of openings, etc.), the proximity to the dams or the stored water, and the local geology.</p> <p>A portion of the Project Area falls within the Notification Area for the Eraring Ash Dam. Mining within the Notification Area will require approval form the Dam Safety Committee.</p>

5.3.3 State Environmental Planning Policies

The following State Environmental Planning Policies (SEPP's) will be considered as part of the EIS for the Newstan Colliery Extension of Mining Project:

- SEPP (State and Regional Development) 2011;
- SEPP (Mining, Petroleum Production and Extractive Industries) 2007;
- SEPP 33 – Hazardous and Offensive Development;
- SEPP 44 – Koala Habitat Protection; and
- SEPP 14 - Coastal Wetlands.

5.4 LOCAL ENVIRONMENT PLANS

5.4.1 Lake Macquarie Local Environment Plan

The Newstan Colliery Extension of Mining Project is located within the Lake Macquarie LGA. The zonings for land use under the Lake Macquarie Local Environment Plan (LEP) 2004 that apply to the Newstan Colliery Extension of Mining Project are:

- Zone 1(1) – Rural (Production);

- Zone 2(1) – Residential;
- Zone 4(1) – Industrial (Core);
- Zone 5 – Infrastructure;
- Zone 6(1) – Open Space;
- Zone 6(2) – Tourism and Recreation;
- Zone 7(1) – Conservation (Primary);
- Zone 7(2) – Conservation (Secondary);
- Zone 7(3) – Environmental (General);
- Zone 9 – Natural Resources; and
- Zone 10 – Investigation Zone.

The majority of land within the Newstan Colliery extension of mining area is zoned 9 Natural Resources or 7(2) Conservation (Secondary).

The Newstan Colliery Surface Site is located on land zoned 4(1) – Industrial (Core) and 9 – Natural Resources and the Awaba Colliery Surface Site is located on land zoned 9 – Natural Resources.

Development for the purposes of a mine is permissible with development consent under the Lake Macquarie LEP 2004 within zones 1(1), 4(1) and 9 however is prohibited within all other zones. Despite the Lake Macquarie LEP 2004 prohibiting mining within certain zones, the Mining SEPP prevails over the Lake Macquarie LEP 2004 to the event of any inconsistency. Any zoning provision in the LEP that would otherwise operate to prohibit the project therefore has no effect in this case.

6.0 KEY ENVIRONMENTAL ISSUES

6.1 Identification of Environmental Issues

The key project-related issues warranting detailed assessment in the EIS will be identified through:

- The existing environmental context of the Project Areas and surrounding locality;
- The legislative framework applicable to the Project (discussed in Section 5.0);
- A preliminary environmental risk assessment, which has already been completed (see **Section 6.1.1**);
- The outcomes of consultation to be undertaken with government agencies and other relevant stakeholders; and
- Specialist studies completed as part of the preparation of the EIA.

6.1.1 Pre-Project Risk Assessment

A preliminary environment and community risk assessment was conducted by Centennial Newstan in accordance with the Centennial risk management process, with the aim of:

- Identifying those issues relating to the Project that represent the greatest risk to the business, environment and community; and
- Assisting in setting the level of assessment required to address each identified risk within the EIS.

The issues that were specifically assessed in the risk assessment include:

- Subsidence
- Flora and fauna
- Surface water
- Groundwater
- Greenhouse gas emissions
- Noise
- Aboriginal heritage
- European heritage
- Social/Community
- Visual

- Air quality

A Risk Assessment report, including a risk register, was prepared to document the outcomes of the risk assessment, and is attached as **Appendix 1**.

The risk assessment did not identify any 'extreme' or 'high' environmental issues relating to the Project.

Four 'significant' risks relating to the Project were identified by the risk assessment including:

- Impacts to Aboriginal heritage sites as a result of mine induced subsidence;
- Impacts from mine induced subsidence on surface infrastructure;
- Underground mining resulting in the depressurisation of groundwater aquifers resulting in impacts to groundwater dependant ecosystems; and
- Social or community impacts as a result of extensions to mining operations or inadequate community consultation being undertaken regarding the Project.

'Moderate' risks relating to the Project identified by the risk assessment included:

- Impacts from subsidence on Endangered Ecological Communities, threatened flora, threatened fauna or threatened fauna habitat;
- Impacts from mine induced subsidence on creek geomorphology, water quality, areas of ponding or ecological receptors;
- Greenhouse gas emissions as a result of coal extraction contributing to sea level rise and global warming;
- Land clearing for additional infrastructure resulting in impacts to Endangered Ecological Communities, threatened flora, threatened fauna or threatened fauna habitat; and
- Impacts to creeks or water quality as a result of mine water discharges.

The following 'low' risks relating to the Project were identified by the risk assessment:

- Impacts from mine induced subsidence on European heritage sites;
- Impacts from mine induced subsidence resulting in changes to flooding regimes;

- Impacts to agricultural lands as a result of mine induced subsidence;
- Depressurisation of groundwater aquifers from underground mining resulting in impacts to other groundwater users;
- Construction of new infrastructure resulting in exceedences of noise criteria, air quality criteria or community complaints regarding air and noise issues;
- Impacts to European heritage sites as a result of land clearing for new infrastructure;
- Impacts to visual amenity as a result of the construction or operation of surface infrastructure;
- Impacts to creeks and water quality as a result of the construction of new infrastructure; and
- Exceedences of noise criteria, air quality criteria or complaints regarding air and noise as a result of the operation of surface infrastructure.

6.2 Identified Environmental Issues

The environmental issues identified during the environmental risk assessment, and how they will be assessed in the EIS is discussed in the sections below.

6.2.1 Subsidence

A detailed subsidence assessment will be undertaken for the final mine design for the Newstan Colliery Extension of Mining Project for inclusion in the EIS. The subsidence assessment will include:

- Identification of mine characteristics (depth of cover, geology, mining method, mining height, mine layout and percentage extraction) and how these characteristics influence subsidence levels;
- Identification of known geotechnical constraints to existing and/or proposed mine design;
- A review of previous subsidence predictions from the operation against actual subsidence results;

- Identification of conventional and non-conventional subsidence effects and impacts likely to be experienced at the site;
- Identification of an appropriately scaled subsidence prediction methodology for the site that is clearly described and, where available, supported by actual subsidence data;
- Assessment of the conservativeness applied to the prediction methodology used; and
- Identification of the maximum likely predicted vertical subsidence, tilts and strains.

The outcome of the specialist subsidence assessment will be used to inform the other specialists who will use the predictions to determine the consequences of subsidence on sensitive features.

6.2.2 Flora and Fauna

A terrestrial ecological impact assessment will be undertaken as part of the EIS. The assessment will involve:

- A review of previous ecological investigations undertaken in proximity to the Project Application Area in addition to database searches within the locality;
- Vegetation community survey and mapping;
- Targeted seasonal threatened flora surveys;
- Fauna Surveys; and
- Identification of mitigation or management measures as required.

6.2.3 Surface Water

The EIS will include an assessment of impacts from changes to flooding regimes and ponding as well as impacts to surface water as a result of the Project. A flood model will be developed as part of the surface water impact investigations. The EIS will identify mitigation and management measures as required. Surface water management associated with the Newstan and Awaba Colliery Surface Sites will be

addressed in the Northern Coal Services Logistics EIS and, as such, does not form part of this Project.

6.2.4 Groundwater

A groundwater impact assessment will be undertaken as part of the EIS and will include:

- A review of any available background hydrogeological and mining data;
- Searches of the NSW Groundwater Bore Database to identify beneficial use of groundwater in the anticipated radius of drawdown;
- Consideration of the ecological assessment report (to be prepared concurrently to the groundwater assessment) to identify possible groundwater dependent ecosystems (GDEs);
- Development of a MODFLOW hydrogeological model;
- Predictive simulations of water level change in the workings;
- Identification of potential groundwater impacts of the Project, including impacts on beneficial users and GDEs; and
- Development of groundwater management strategies and mitigation measures as required.

6.2.5 Greenhouse Gas

A greenhouse gas assessment will be undertaken as part of the EIS. The greenhouse gas assessment will:

- Calculate Scope 1, 2 and 3 greenhouse gas estimations for the activities associated with the Project in accordance with the requirements of the NGER Act, and by applying all relevant emission factors and methods including those documented in the relevant NGERs guidelines;
- Assess the significance of greenhouse gas emissions for the Project in relation to national greenhouse gas objectives, and report on the Project's

greenhouse gas implications in terms of Commonwealth and State Government policies and protocols; and

- Determine mitigation or management measures as required.

6.2.6 Air Quality

An air quality assessment will be undertaken as part of the EIS to assess potential impacts on nearby sensitive receptors. This assessment will include:

- Identification of an appropriate meteorological data set to utilise for the Project;
- Identification of sensitive receptors;
- Identification of all likely dust generating sources (depositional dust, PM10, PM2.5 and Total Suspended Particulates (TSP));
- Establishment of background air quality levels and air quality goals for all relevant air quality emissions in accordance with relevant guidelines;
- Estimation of emission rates primarily using emission inventory data.
- Dispersion modelling to predict PM10, PM2.5, TSP and deposition rates at the closest sensitive receptors; and
- Recommendations on mitigation and management strategies.

6.2.7 Noise

A noise impact assessment will be undertaken as part of the EIS and will include:

- Installation of noise loggers, where required, at locations representing the nearest affected residential premises to determine existing background noise levels and contributors for a period of at least seven days;
- Noise measurements to determine sound power levels of all acoustically significant plant and equipment associated with the Project.
- Analysis of noise data with reference to local weather conditions and cumulative impacts;

- Impact assessment of the proposed Project's contribution to the noise environment at the nearest sensitive receptors for day, evening and night time periods under calm and prevailing meteorological conditions; and
- Identification of noise management strategies and mitigation measures, as required.

6.2.8 Heritage (Aboriginal and European)

An Aboriginal and European heritage impact assessment will be undertaken as part of the EIS and will include:

- Background research, including:
 - Identify statutory requirements relevant to the proposed Project;
 - Consultation with the Aboriginal community and other interested stakeholders in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010 (OEH, 2010);
 - Literature review of previous archaeological studies relevant to the Project Application Area;
 - Search of the Aboriginal Heritage Information Management System (AHIMS) database;
 - Assessment of Aboriginal and European archaeological and cultural heritage items identified within the Project areas; and
 - Baseline inventory of all Aboriginal heritage sites inside the Project areas.
- Field surveys over the Project area; and
- Identification of mitigation and management strategies to minimise the impacts to identified Aboriginal and/or European heritage sites.

6.2.9 Social

A social impact assessment will be undertaken as part of the EIS to identify impacts of the Project on the community and identify mitigation and management measures as required.

6.2.10 Agriculture, Soils and Land Use

The EIS will include an assessment of potential impacts from the Project on land use, agricultural capabilities for the area and an assessment of soil and potential soil-related issues that may arise from the Project.

6.2.11 Waste Management

The EIS will include a detailed assessment on waste management for waste streams relevant to the Project.

6.2.12 Visual

A visual impact assessment will be undertaken as part of the assessment process and detailed within the EIS.

7.0 STAKEHOLDER AND COMMUNITY CONSULTATION

Centennial will lead the stakeholder and community consultation for the Project. A detailed stakeholder consultation plan will be developed for the Project, and will provide a framework to identify and appropriately consult with stakeholders that may be influenced by or have an interest in the Project. Key stakeholders include:

- Government (Commonwealth, State and Local);
- Community;
- Infrastructure owners; and
- Mine staff and employees.

A stakeholder consultation log will be maintained as a record of the consultation activities undertaken, and the contents of this log will be summarised in the EIS.

Consultation to be undertaken as part of the Newstan Colliery Extension of Mining Project will include:

- Updates to the Newstan Community Consultative Committee;
- Updates to the LT Creek Sustainable Neighbourhood Group;
- Letters to residents or interested stakeholders;
- Project updates provided on the Centennial website;
- Project updates provided in the Lakes Mail;
- Media releases;
- Information sessions;
- Face to face meetings with landowners, infrastructure owners and other regulatory and industry stakeholders; and
- A briefing session with relevant government agencies.

Centennial Newstan maintains a community complaints and enquiries line which will also be made available to the community for people to obtain up to date and factual information or make complaints regarding the Project.

A Conceptual Project Development Plan (CPDP) meeting with the DTIRIS was held on 11 April 2011. DTIRIS provided their support for the Newstan Colliery Extension of

Mining Project to proceed to the planning assessment and approval process on 20 April 2011.

8.0 PROJECT JUSTIFICATION

The Newstan Colliery Extension of Mining Project, if approved, will allow for the optimisation of resource recovery from within the Project Area while provide ongoing direct and indirect employment opportunities. In addition the Newstan Colliery Extension of Mining Project will provide a number of positive flow-on effects to the local, regional and state economies through additional wages and royalties.

The coal recovered from the Project Area can produce both a semi-soft coking coal product for the export market and a thermal coal product for both the domestic and export markets. The Project will enable supply of export coal products while meeting contractual coal supplies to the domestic markets. Over time, the Project can potentially replace the coal product currently supplied to the domestic market by other Centennial operations as these other resources become depleted.

9.0 CONCLUSION

Centennial Newstan is seeking approval under Part 4 Division 4.1 of the EP&A Act to undertake and continue a range of mining related activities at the Newstan Colliery as outlined within this Briefing Paper. This Briefing Paper has been prepared by Centennial Newstan to provide the DP&I, other relevant regulators and the community with a description of the Project. This Briefing Paper identifies the likely key social and environmental issues associated with the Project and is designed to assist the Director-General to issue appropriately targeted Environmental Assessment Requirements for the Project. The EARs will be considered during the preparation of the EIS.

Appendix 1 – Environment and Community Broad Brush Risk Assessment

Dyadem Stature for Risk Management:

Risk Assessment Title: Newstan Colliery Extension of Mining Project - Environment and Community Broad Brushed Risk Assessment

Version: 1

Region: North

Stature Risk Assessment No.: 1000209001

Background

Centennial Newstan Pty Limited (Centennial Newstan) owns and operates the Newstan Colliery. Newstan Colliery is an underground coal mine located approximately 25 kilometres south-west of Newcastle and 140 kilometres north of Sydney in the Lake Macquarie region of New South Wales. Centennial Newstan is seeking Project Approval for the proposed Newstan Colliery Extension of Mining Project under Part 4 Division 4.1 of the Environmental Planning and Assessment Act 1979 (EP&A Act). Specifically the Project proposes to:

- Expand its underground mining operations both within and beyond the existing approved Newstan Colliery Life Extension Area utilising a combination continuous miner and longwall mining methods;
- Extract up to 4.5 million tonnes per annum (Mtpa) of run of mine (ROM) coal;
- Utilise and upgrade the existing surface infrastructure of the Newstan and Awaba collieries;
- Construct a new men and materials drift at the Awaba Colliery Surface Site for access to the Newstan Colliery underground workings;
- Install and operate additional surface infrastructure for gas drainage, greenhouse gas capture and abatement, ventilation, support buildings, electrical reticulation, water reticulation, water management, communications and other services;
- Continue to operate the underground water management systems of both the Newstan and Awaba Collieries;
- Operate the Awaba Colliery surface water management system including all existing discharge points;
- Increase manning to 350 employees;
- Transfer water between the Newstan Colliery, the Awaba Colliery and the Mandalong Mine water management system;
- Continue to utilise the existing 'ballast borehole' site and services compound at Awaba;
- Undertake ongoing exploration drilling activities;
- Progressively rehabilitate disturbed areas;
- Continue to operate 24 hours per day seven days per week.

The proposed Newstan Colliery Extension of Mining Project Application Area includes:

- The Newstan Colliery extension of mining area;
- The Newstan Colliery Surface Site
- The Newstan Colliery ballast borehole site (located off Forest Road at Awaba);
- The Awaba Colliery Surface Site (including existing approved discharge points);
- Proposed additional ancillary/remote surface facilities/infrastructure areas required to support the Newstan Colliery Extension of Mining Project; and
- The existing and approved Newstan and Awaba Colliery mine workings for water management, ventilation, coal transport and men and materials access.

Objective

The objectives of this Risk Assessment is to identify the environment and community risks associated with the proposed Newstan Colliery Extension of Mining Project and to identify knowledge gaps where further information and/or assessment will be required to support an Environmental Impact Statement.

Potential Hazards

The potential hazards for the proposed Newstan Colliery Extension of Mining Project include:

- Subsidence caused by underground mining;
- Vegetation clearing required to support additional infrastructure;
- Loss of groundwater or depressurisation of groundwater aquifers;
- Traffic impacts;
- Noise impacts;
- Impacts to air quality;
- Water management issues
- Surface water impacts at the Awaba Colliery Surface Site
- Impacts from GHG emissions;
- Agricultural or land use impacts; and
- Community/social impacts.

Scope

This Risk Assessment is a preliminary Risk Assessment aimed to identify knowledge gaps and areas where further assessments will be required. The full extent of environmental risks associated with this project will not be understood until further and more detailed investigations have been undertaken. This risk assessment should be reviewed following the completion of the detailed investigations to ensure all environmental risks associated with the Project have been identified, understood and are at an acceptable level for the company. This Project does not include an assessment of the impacts from any coal handling or surface water operations associated with the Newstan Colliery as these will be considered as part of the Northern Coal Services Logistics Project.

Risk Assessment Method

Yes/No	Method
Yes	Workplace Risk Assessment and Control (WRAC)
No	Fault Tree Analysis (FTA)
No	Safety Integrity Level Analysis to Australian Standard 61508 (SIL)
No	Bow Tie Analysis (BTA)
No	Failure Modes and Effects Analysis (FMEA)
No	Hazard and Operability Analysis (HAZOP)

Risk Assessment Team

Name	Title	Company
James Wearne	Environment & Community Coordinator	Centennial Coal
Jeffrey Dunwoodie	Environmental & Community Coordinator	Centennial Newstan
Paul Berryman	Compliance Manager	Centennial Newstan

WRAC Analysis

Step	Potential Incident	Current Controls	L	MRC	RR	Recommended Control
1. Mining	There is a risk to Newstan from ::: Subsidence ::: Caused by: Mining using Longwall or continuous miner methods Resulting in: Impacts to Aboriginal heritage sites.	1.1.a. Aboriginal heritage surveys have been conducted over the proposed mining areas	C (D)	3 (E)	13 (S)	1. Detailed subsidence assessment to be completed on final mine layout/design
		1.1.b. Mine design has taken into consideration the location of Aboriginal sites				2. Aboriginal and Cultural Heritage Impact Assessment to be completed as part of the Environmental Impacts Statement
		1.1.c. Geological conditions are well known that influence subsidence predictions				3. Consultation with the Aboriginal Community to continue in accordance with the OEH 2010 Aboriginal Cultural Heritage Consultation Requirements for Proponents.
		1.1.d. A specialist subsidence consultant has been engaged for the Project				30. Consider implementing the management and mitigation measures identified in the assessment reports
	There is a risk to Newstan from ::: Subsidence ::: Caused by: Mining using Longwall or continuous miner methods Resulting in: Impacts to European heritage sites.	1.2.a. Heritage surveys have been conducted over the proposed mining areas	C (D)	5 (E)	22 (L)	1. Detailed subsidence assessment to be completed on final mine layout/design
		1.2.b. Heritage database search has been undertaken				4. A European Heritage Impact Assessment to be completed as part of the Environmental Impact Statement
		1.2.c. The project is within a Mine Subsidence District				30. Consider implementing the management and mitigation measures identified in the assessment reports
		1.2.d. Geological conditions are well known that influence subsidence predictions				
		1.2.e. A specialist subsidence consultant has been engaged for the Project				
	There is a risk to Newstan from ::: Subsidence ::: Caused by: Mining using Longwall or continuous miner methods Resulting in: Impacts to Endangered Ecological Communities or Impacts to fauna habitat or impacts to threatened fauna or Impacts to threatened flora.	1.3.a. Ecological surveys have been conducted over the entire proposed mining areas	C (D)	4 (E)	18 (M)	1. Detailed subsidence assessment to be completed on final mine layout/design
		1.3.b. All EECs, threatened flora and threatend fauna identified have been mapped				11. Ecological Impact Assessment to be completed as part of the Environmental Impact Statement
		1.3.c. A specialist subsidence consultant has been engaged for the Project				12. Develop a flood model and undertake a Surface Water Impact Assessment for the project and consider impacts that changes in creeks or flooding behavior may have on ecological receptors
		1.3.d. Geological conditions are well known that influence subsidence predictions				13. Consider offset requirements for the project as part of the EIS 30. Consider implementing the management and mitigation measures identified in the assessment reports
There is a risk to Newstan from	1.4.a. Baseline surface water	C	4	18	1. Detailed subsidence assessment to be completed on	

Step	Potential Incident	Current Controls	L	MRC	RR	Recommended Control
	<p>::: Subsidence :::</p> <p>Caused by: Mining using Longwall or continuous miner methods</p> <p>Resulting in: Impacts to creek geomorphology or Impacts to ecological communities or Impacts to surface water quality or Increases or decreases to areas of ponding.</p>	<p>assessments have been completed</p> <p>1.4.b. Ecological surveys have been conducted over the entire proposed mining areas</p> <p>1.4.c. Geological conditions are well known that influence subsidence predictions</p> <p>1.4.d. Specialist subsidence consultant has been engaged for the Project</p>	(D)	(E)	(M)	<p>final mine layout/design</p> <p>6. Surface Water Impact Assessment is to be completed as part of the Environmental Impact Statement</p> <p>14. Develop a flood model for the project area</p> <p>30. Consider implementing the management and mitigation measures identified in the assessment reports</p>
	<p>There is a risk to Newstan from</p> <p>::: Subsidence :::</p> <p>Caused by: Mining using Longwall or continuous miner methods</p> <p>Resulting in: Changes in flooding regimes.</p>	<p>1.5.a. Baseline surface water assessments have been completed</p> <p>1.5.b. Ecological surveys have been conducted over the entire proposed mining areas</p> <p>1.5.c. Limited flood plain areas are within the Project Area</p>	(D)	4 (E)	21 (L)	<p>14. Develop a flood model for the project area</p> <p>10. Mine design to consider potential impacts</p> <p>6. Surface Water Impact Assessment is to be completed as part of the Environmental Impact Statement</p> <p>5. Ecological impact Assessment to be completed as part of the Environmental Impact Statement</p> <p>30. Consider implementing the management and mitigation measures identified in the assessment reports</p>
	<p>There is a risk to Newstan from</p> <p>::: Subsidence :::</p> <p>Caused by: Mining using Longwall or continuous miner methods</p> <p>Resulting in: Impacts to infrastructure (including houses, roads, Eraring Ash Dam etc) .</p>	<p>1.6.a. Location of significant infrastructure known</p> <p>1.6.b. The area is a declared mine subsidence district</p> <p>1.6.c. Approval required for secondary extraction through an SMP or extraction plan</p> <p>1.6.d. Consultation with infrastructure owners has commenced</p>	(D)	3 (F)	13 (S)	<p>9. Detailed subsidence assessment to be completed on final mine layout/design</p> <p>15. Assessment of potential impacts to be included within the Environmental Impact Statement</p> <p>16. Continue to undertake consultation with infrastructure owners</p> <p>30. Consider implementing the management and mitigation measures identified in the assessment reports</p> <p>42. Approval of mine design by the Dams Safety Committee required before mining in the Eraring Ash Dam notification area</p>
	<p>There is a risk to Newstan from</p> <p>::: Subsidence :::</p> <p>Caused by: Mining using Longwall or continuous miner methods</p> <p>Resulting in: Impacts to agricultural lands .</p>	<p>1.7.a. Land is largely Crown land and has limited agricultural use</p>	(D)	5 (E)	24 (L)	<p>17. Undertake an agricultural and land use assessment as part of the Environmental impact Statement</p> <p>30. Consider implementing the management and mitigation measures identified in the assessment reports</p>

Step	Potential Incident	Current Controls	L	MRC	RR	Recommended Control
	<p>There is a risk to Newstan from ::: Depressurisation of groundwater aquifers :::</p> <p>Caused by: Mining using Longwall or continuous miner methods or Subsidence induced fracturing intersecting useable aquifers</p> <p>Resulting in: Impacts to other groundwater users.</p>	1.8.a. A preliminary groundwater assessment for the area has been completed	C (D)	5 (R)	22 (L)	31. Update the Newstan Colliery and Awaba Colliery hydrogeological models for the extension of mining project
		1.8.b. Monitoring bores have been installed in the alluvials around the project area				8. A Groundwater Impact Assessment is to be completed as part of the Environmental Impact Statement
		1.8.c. A hydrogeological model has been developed for the Newstan Colliery				30. Consider implementing the management and mitigation measures identified in the assessment reports
		1.8.d. A water balance has been developed for the existing Newstan Colliery operations				
		1.8.e. There are a limited number of groundwater users around the project area				
		1.8.f. Monthly groundwater quality data is being collected				
		1.8.g. Existing Newstan Colliery groundwater data is available				
		1.8.h. Previous mining experience at Newstan Colliery assists in understanding impacts from mining on groundwater resources				
		1.8.i. Mine design has taken into consideration the location of Awaba workings				
						<p>There is a risk to Newstan from ::: Depressurisation of groundwater aquifers :::</p> <p>Caused by: Mining using Longwall or continuous miner methods or Subsidence induced fracturing intersecting alluvial aquifers</p> <p>Resulting in: Impacts to Groundwater Dependent Ecosystems.</p>
1.9.b. Monitoring bores have been installed in the alluvials around the project area	8. A Groundwater Impact Assessment is to be completed as part of the Environmental Impact Statement					
1.9.c. A hydrogeological model has been developed for the Newstan Colliery	31. Update the Newstan Colliery and Awaba Colliery hydrogeological models for the extension of mining project					
1.9.d. Ecological surveys have been conducted over the entire proposed mining areas that has identified the location of groundwater dependent ecosystems	30. Consider implementing the management and mitigation measures identified in the assessment reports					

Step	Potential Incident	Current Controls	L	MRC	RR	Recommended Control
	<p>There is a risk to Newstan from</p> <p>::: Release of GHG emissions :::</p> <p>Caused by: Diesel use or Electricity use or Extraction of coal</p> <p>Resulting in: Contribute to sea level rise or Contributing to global warming.</p>	1.10.a. Annual NGERS reporting undertaken	B (D)	5 (E)	19 (M)	18. GHG assessment to be undertaken as part of the Environmental Impact Statement
		1.10.b. Monitoring and reporting of electricity and diesel usage				30. Consider implementing the management and mitigation measures identified in the assessment reports
		1.10.c. New greenhouse gas abatement technology about to be trialed at Mandalong Mine				29. The Environmental Impact Statement is to consider the potential use of greenhouse gas abatement technology such as gas flares and VAMRABs to reduce GHG emissions.
2. Construction	<p>There is a risk to Newstan from</p> <p>::: Land clearing :::</p> <p>Caused by: Construction of new infrastructure or upgrades to existing infrastructure</p> <p>Resulting in: Impacts to Endangered Ecological Communities or Impacts to threatened fauna habitat or Impacts to threatened flora or Threatened fauna.</p>	2.1.a. Ecology surveys done over the entire Project Area	C (D)	4 (E)	18 (M)	32. An Ecological Impact Assessment to be completed as part of the Environmental Impact Statement
		2.1.b. Location of Endangered Ecological Communities, threatened flora and threatened fauna is known and has been mapped				1. Detailed subsidence assessment to be completed on final mine layout/design
						19. Offset requirements are to be considered as part of the project
	<p>There is a risk to Newstan from</p> <p>::: Noise :::</p> <p>Caused by: Construction of new infrastructure or upgrades to existing infrastructure</p> <p>Resulting in: Community complaints or Exceedence of noise criteria.</p>	2.2.a. OEH has adopted the INP noise guidelines	C (D)	5 (R)	22 (L)	20. A Noise Impact Assessment is to be undertaken as part of the project Environmental Impact Statement
		2.2.b. OEH have developed the Interim Construction Noise Guidelines				34. The Noise Impact Assessment is to take into consideration construction activities
		2.2.c. Monitoring programmes at Awaba for noise				21. All construction activities should be undertaken to ensure noise criteria are met
		2.2.d. The location of sensitive receivers are known				30. Consider implementing the management and mitigation measures identified in the assessment reports
	<p>There is a risk to Newstan from</p> <p>::: Air quality impacts :::</p> <p>Caused by: Construction of new infrastructure or upgrades to existing infrastructure</p> <p>Resulting in: Community complaints or Exceedence of air quality criteria.</p>	2.3.a. OEH has developed Air Quality guidelines	C (D)	5 (R)	22 (L)	22. An Air Quality Impact Assessment should be completed as part of the project Environmental Impact Statement
		2.3.b. Monitoring programmes at Awaba for air quality				33. The Air Quality Impact Assessment is to take into consideration construction activities
						35. The location of sensitive receivers are known
		30. Consider implementing the management and mitigation measures identified in the assessment reports				
	<p>There is a risk to Newstan from</p> <p>::: Impacts to European heritage :::</p>	2.4.a. Heritage databases have been searched.	D (D)	5 (E)	24 (L)	28. A Heritage Impact Assessment is to be undertaken as part of the preparation of the Environmental Impact Statement

Step	Potential Incident	Current Controls	L	MRC	RR	Recommended Control		
	<p>Caused by: Construction of new infrastructure or upgrades to existing infrastructure.</p> <p>Resulting in: Loss of European heritage values of the Awaba and/or Newstan Colliery..</p>	2.4.b. Newstan and Awaba Collieries are only identified as having potential local heritage significance				43. Any construction activities potentially impacting heritage items to be undertaken in consultation with relevant authorities 30. Consider implementing the management and mitigation measures identified in the assessment reports		
		2.5.a. LMCC has developed visual amenity guidelines				25. All new infrastructure should consider impacts to visual amenity		
	<p>There is a risk to Newstan from ::: Impacts to visual amenity :::</p> <p>Caused by: Construction of new infrastructure or upgrades to existing infrastructure</p> <p>Resulting in: Community complaints or Newstan Colliery becoming more visual to the community.</p>	2.5.b. Awaba is remote from residential areas				26. Appropriate screening should be considered if/where required. 27. A Visual Impact Assessment is to be completed as part of the projects Environmental Impact Statement 30. Consider implementing the management and mitigation measures identified in the assessment reports		
			C (D)	5 (R)	22 (L)			
		2.6.a. Background/baseline surface water quality monitoring has commenced				36. A Surface Water Impact Assessment is to be prepared for the project and included in the Environmental Impact Statement		
		2.6.b. A baseline surface water constraints analysis has been completed	D (D)	5 (E)	24 (L)	37. Appropriate erosion and sediment controls are to be used around all construction activities/sites 38. The location of any additional infrastructure is to take into consideration proximity of creeks		
	<p>There is a risk to Newstan from ::: Impacts to surface water :::</p> <p>Caused by: Construction of new infrastructure</p> <p>Resulting in: Impacts to creeks or Impacts to water quality.</p>	2.6.c. The location of all creeks and drainage lines are known and have been mapped				44. Erosion and sediment controls are to be designed in accordance with the 'Blue Book'		
		2.6.d. Newstan and Awaba have an existing Erosion and Sediment Control Plan						
		3. Operation	<p>There is a risk to Newstan from ::: Noise :::</p> <p>Caused by: Operation of surface infrastructure</p> <p>Resulting in: Community complaints or Exceedence of noise criteria.</p>	3.1.a. OEH has adopted the INP noise guidelines				20. A Noise Impact Assessment is to be undertaken as part of the project Environmental Impact Statement
				3.1.b. A Noise Impact Assessment has been undertaken for the existing Awaba Colliery operations	C (D)	5 (R)	22 (L)	24. All remote infrastructure should be designed and located to ensure the equipment meets relevant noise criteria 30. Consider implementing the management and mitigation measures identified in the assessment reports
<p>There is a risk to Newstan from ::: Air quality impacts :::</p> <p>Caused by: Operation of surface infrastructure</p>	3.2.a. The Newstan Colliery surface operations are being assessed as part of the Northern Coal Services - Coal Logistics Project	D (D)	5 (R)	24 (L)	22. An Air Quality Impact Assessment should be completed as part of the project Environmental Impact Statement			
	3.2.b. OEH has developed Air Quality				23. All remote infrastructure should be designed and			

Step	Potential Incident	Current Controls	L	MRC	RR	Recommended Control
	Resulting in: Community complaints or Exceedence of air quality criteria.	guidelines	C (D)	5 (R)	22 (L)	located to ensure the equipment meets relevant air quality guidelines
		3.2.c. An Air Quality Impact Assessment has been prepared for the current Newstan and Awaba Colliery surface operations				30. Consider implementing the management and mitigation measures identified in the assessment reports
	There is a risk to Newstan from ::: Impacts to visual amenity ::: Caused by: Construction of new infrastructure or upgrades to existing infrastructure or Lighting requirements Resulting in: Community complaints or Newstan Colliery becoming more visual to the community.	3.3.a. LMCC has developed visual amenity guidelines				25. All new infrastructure should consider impacts to visual amenity
		3.3.b. Information is regularly updated on the Centennial Coal website				26. Appropriate screening should be considered if/where required.
		3.3.c. Centennial Newstan has undertaken consultation with impacted landowners to date				27. A Visual Impact Assessment is to be completed as part of the projects Environmental Impact Statement
		3.3.d. Newstan Colliery has an established Community Consultative Committee				30. Consider implementing the management and mitigation measures identified in the assessment reports
		3.3.e. Centennial Newstan has an existing Stakeholder Engagement Plan				
3.3.f. Landownership around Awaba and the majority of the Project Area is Crown Land						
4. Water Management	There is a risk to Newstan from ::: Increased water discharge requirements ::: Caused by: Increased mine water make Resulting in: Impacts to creek geomorphology or Impacts to ecological receptors or Impacts to water quality above ANZECC or EPL conditions.	4.1.a. A hydrogeological model has been developed for the Newstan and Awaba Collieries	C (D)	4 (E)	18 (M)	39. Revise the hydrogeological model and water balance and include within the EIS
4.1.b. A water balance has been developed for the existing Newstan and Awaba Colliery operations		36. A Surface Water Impact Assessment is to be prepared for the project and included in the Environmental Impact Statement				
4.1.c. Centennial Newstan holds an existing EPL for the Awaba Colliery discharge points.		30. Consider implementing the management and mitigation measures identified in the assessment reports				
4.1.d. Water management at the Newstan and Cooranbong Collieries are being considered as part of a separate project						
5. Social/community	There is a risk to Newstan from ::: Community concerns ::: Caused by: Expansion of mining operations or Incorrect information or Lack of information	5.1.a. Centennial Newstan has an existing Stakeholder Engagement Plan	A (D)	4 (R)	10 (S)	40. Revise the Newstan Colliery Stakeholder Engagement Plan
5.1.b. Newstan Colliery has an established Community Consultative Committee		41. Implement the actions required and identified in the Stakeholder Engagement Plan				
5.1.c. Centennial Newstan has undertaken consultation with						

Step	Potential Incident	Current Controls	L	MRC	RR	Recommended Control
	Resulting in: Adverse media coverage or Community complaints.	impacted landowners to date 5.1.d. Information is regularly updated on the Centennial Coal website				

RISK MANAGEMENT STANDARD

Management Standard-004

CENTENNIAL RISK MATRIX							Likelihood					Description (D)
							A Certain	B Probable	C Possible	D Remote	E Improbable	
Rating	Consequence						Common"	Has Happened within Centennial"	"Could Happen & has happened in non-CEY operations	Not Likely	"Practically impossible	Probability (Pb)
	Note: Consequence may result from a single event or may represent a cumulative impact over a period of 12 months. Use the worst case reasonable consequence if there is more than one.						Frequent incidents	Regular incidents	Infrequent incidents	Unlikely to occur. Very few recorded or known incidents	May occur in exceptional circumstances. Almost no recorded incidents.	Incident Frequency (IF)
	Impact to Annual Business Plan (F)	Personal Injury (PI)	Business Interruption (BI)	Legal (L)	Reputation (R)	Environment (E)	Operations – within 3 months	Operations – within 2 years	Operations – within 5 years	Operations – within 10 years	Operations – within 30 years	Operations (Op)
							Project – Every project	Project – Every 2 projects	Project – Every 5 projects	Project – Every 10 projects	Project – Every 30 projects	Project (Pr)
1. Catastrophic	>\$50m	Multiple Fatalities	> 1month	Prolonged litigation, heavy fines, potential jail term	Prolonged International media attention	Long term impairment habitats/ ecosystem	1 (E)	2 (E)	5 (H)	7 (H)	11 (S)	
2. Major	\$10m - \$50m	Single Fatality	1 week to 1 month	Major breach/ major litigation	International media attention	Long term effects of ecosystem	3 (E)	4 (E)	8 (H)	12 (S)	16 (M)	
3. Moderate	\$1m - \$10m	Serious/ Disabling Injury	1 day to 1 week	Serious breach of regulation. prosecution/ fine	National media attention	Serious medium term environmental effects	6 (H)	9 (H)	13 (S)	17 (M)	20 (L)	
4. Minor	\$100k - \$1m	Lost Time Injury	12 hrs to 1 day	Non-compliance, breaches in regulation	Adverse local public attention	Minor effects to physical environment	10 (S)	14 (S)	18 (M)	21 (L)	23 (L)	
5. Insignificant	<\$100k	First Aid Treatment Only	< 12 hrs	Low level compliance issue	Local complaints	Limited physical damage	15 (S)	19 (M)	22 (L)	24 (L)	25 (L)	

Risk Rating	Risk Category		Generic Management Actions
1 to 4	E	Extreme	Immediate intervention required from senior management to eliminate or reduce this risk
5 to 9	H	High	Imperative to eliminate or reduce risk to a lower level by the introduction of control measures. Management planning required at senior levels
10 to 15	S	Significant	Corrective action required, senior management attention needed to eliminate or reduce risk
16 to 19	M	Moderate	Corrective action to be determined, management responsibility must be specified
20 to 25	L	Low	Monitor and manage by corrective action where practicable

THIS DOCUMENT IS UNCONTROLLED UNLESS VIEWED ON THE INTRANET

Appendix 2 – Schedule of Land

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
100		1149240
104		1149241
103		1149241
103		1149241
1		1031778
7306		1164232
UCL		749999
UCL		750001
UCL		750002
UCL		418269
UCL		17036
214		755207
1		582126
65		1126625
153		755207
10		239629
102		755218
80		755207
1		1109558
464		1138964
471		1138964
7305		1149082
2		1109558
462		1138964
7304		1149082
473		1138964
463		1138964
470		1138964
474		1138964
215		755207
465		1138964
466		1138964

Lot	Schedule	DP
14		26634
7		26634
17		26634
9		26634
3		548546
1	T	6747
3		26634
20		26634
12		26634
18		26634
3		620092
11		26634
8		26634
13		26634
6		26634
15		26634
274		755207
3		503197
1		26634
2		26634
16		26634
19		26634
10		26634
5		26634
4		26634
7001		1077055
47		755207
11		1050120
2		548546
2		810981
23		26634
7022		1066247

Lot	Schedule	DP
2		614183
9	J	6747
10	J	6747
52		792987
690		12507
355		44963
749		12507
136		562882
356		44963
175		10176
631		12507
681		12507
750		12507
220		562903
667		12507
249		562910
143		10176
336		42625
1		585142
51		840671
140		562883
257		562912
2		597631
2		811125
697		12507
357		44963
329		42577
228		562905
346		44963
195		562896
354		44963
1450		877517

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
541		12507
250		562910
214		10176
194		562896
678		12507
184		562891
689		12507
333		42625
189		562892
664		12507
101		10176
1		746870
679		12507
147		562885
685		12507
700		12507
349		44963
633		12507
98		10176
598		12507
760		12507
394		823150
327		40061
311		755207
358		44963
472		1138964
2		585142
390		729920
542		12507
588		12507
361		44963
339		42625

Lot	Schedule	DP
247		562910
686		12507
331		42625
628		12507
2		746870
543		12507
755		12507
751		12507
620		12507
677		12507
694		12507
3191		803741
193		562896
603		12507
687		12507
7022		584905
7055		1029212
146		562885
134		562882
185		562891
338		42625
606		12507
621		12507
540		12507
180		562890
698		12507
191		562895
605		12507
332		42625
213		10176
7		789111
142		10176

Lot	Schedule	DP
252		562911
226		562904
6271		792607
173		10176
351		44963
596		12507
619		12507
176		10176
662		12507
1		805810
374		727253
376		727253
360		44963
2		789111
99		10176
597		12507
6		789111
223		562903
586		12507
298		755207
181		562890
753		12507
665		12507
251		562911
3		811125
148		562885
335		42625
139		562883
600		12507
6222		819628
171		10176
142		562884

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
221		562903
179		10176
258		562913
602		12507
661		12507
634		12507
337		42625
746		12507
699		12507
604		12507
352		44963
143		562884
248		562910
144		562884
684		12507
683		12507
217		562902
1		789111
752		12507
5		789111
7021		584905
6232		806876
1451		877517
253		562911
682		12507
133		562882
587		12507
630		12507
388		727264
182		562890
624		12507
629		12507

Lot	Schedule	DP
756		12507
6273		792607
192		562895
218		562902
170		10176
216		10176
607		12507
167		10176
688		12507
183		562891
1		811125
259		562913
748		12507
227		562904
747		12507
177		10176
180		10176
695		12507
692		12507
169		10176
539		12507
6231		806876
701		12507
618		12507
691		12507
668		12507
680		12507
135		562882
149		562886
6221		819628
137		562883
693		12507

Lot	Schedule	DP
6272		792607
178		10176
215		10176
544		12507
363		44984
393		823150
350		44963
2		805810
585		12507
3192		803741
334		42625
179		562890
141		562884
663		12507
224		562904
599		12507
219		562902
100		10176
347		44963
632		12507
4		789111
696		12507
246		562909
754		12507
53		755207
364		45594
375		727253
190		562895
172		10176
601		12507
256		562912
722		12507

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
331		13129
433		13129
627		13129
573		12507
716		12507
		42453
225		562904
545		12507
669		12507
51		792987
462		13129
511		13129
238		13129
464		13129
3		789111
438		13129
255		562912
524		13129
447		13129
666		12507
670		12507
138		562883
305		13129
273		13129
398		822172
288		13129
235		13129
465		13129
507		13129
475		13129
575		12507
635		13129

Lot	Schedule	DP
243		13129
422		13129
1		842064
101		880089
291		13129
717		12507
482		13129
723		12507
313		13129
424		13129
455		13129
429		13129
476		13129
483		13129
721		12507
576		12507
386		727264
201		1121597
1		1132935
2		1132935
428		13129
500		13129
492		13129
441		13129
287		13129
316		13129
286		13129
589		12507
712		788021
577		12507
332		13129
326		13129

Lot	Schedule	DP
574		12507
459		12507
660		12507
592		12507
550		12507
484		13129
501		13129
715		12507
444		13129
726		12507
572		12507
271		13129
593		12507
252		13129
728		12507
269		13129
521		13129
729		12507
582		12507
506		13129
284		13129
591		12507
303		13129
244		13129
439		13129
6161		870274
470		13129
452		13129
6081		806879
451		13129
466		13129
549		12507

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
526		13129
580		12507
579		12507
241		13129
632		13129
584		12507
759		12507
290		13129
329		13129
324		13129
236		13129
283		13129
536		13129
594		12507
617		12507
636		13129
285		13129
330		13129
463		13129
496		13129
255		13129
613		12507
296		13129
498		13129
448		13129
615		12507
445		13129
547		12507
237		13129
1		1057955
312		13129
437		13129

Lot	Schedule	DP
486		13129
494		13129
1		849608
425		13129
327		13129
474		13129
639		13129
730		12507
609		12507
443		13129
525		13129
423		13129
714		12507
325		13129
251		13129
624		13129
419		13129
629		13129
459		13129
614		12507
270		13129
634		13129
517		13129
649		13129
491		13129
2		842064
467		13129
626		13129
289		13129
314		13129
318		13129
25		881061

Lot	Schedule	DP
440		13129
268		13129
495		13129
499		13129
622		13129
427		13129
581		12507
274		13129
490		13129
528		13129
497		13129
458		13129
590		12507
426		13129
240		13129
520		13129
247		13129
516		13129
473		13129
449		13129
513		13129
2		628338
282		13129
454		13129
628		13129
631		13129
456		13129
431		13129
435		13129
633		13129
281		13129
460		13129

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
317		13129
468		13129
320		13129
272		13129
328		13129
319		13129
510		13129
315		13129
254		13129
595		12507
436		13129
508		13129
472		13129
242		13129
522		13129
278		13129
323		13129
294		13129
546		12507
611		12507
477		13129
6		810981
321		13129
713		788021
583		12507
308		13129
6162		870274
253		13129
518		13129
478		13129
202		1121597
430		13129

Lot	Schedule	DP
302		13129
612		12507
421		13129
471		13129
1		628338
457		13129
625		13129
548		12507
504		13129
322		13129
514		13129
277		13129
480		13129
442		13129
2		849608
2		825245
505		13129
434		13129
725		12507
293		13129
307		13129
292		13129
275		13129
461		13129
623		13129
446		13129
280		13129
246		13129
489		13129
610		12507
239		13129
5		810981

Lot	Schedule	DP
527		13129
719		12507
6082		806879
512		13129
630		13129
420		13129
727		12507
306		13129
279		13129
295		13129
718		12507
720		12507
276		13129
100		880089
523		13129
485		13129
519		13129
502		13129
481		13129
638		13129
711		12507
304		13129
248		13129
509		13129
1		825245
578		12507
637		13129
432		13129
640		13129
487		13129
493		13129
450		13129

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
503		13129
250		13129
256		13129
24		881061
515		13129
3		1150459
1		1150459
2		1150459
12		1150107
2		1078899
11		1150107
7040		1071334
1		105961
100		1142064
101		1073163
6		7878
9		7878
5		7878
78		875281
1024		1077984
1023		1077984
1022		1077984
1020		1077984
B		341342
1		659579
44		755262
22		755207
108		755262
35		755262
119		755207
101		740967
135		755207

Lot	Schedule	DP
124		755207
1		924305
371		592674
130		755207
C		381399
107		755262
103		740967
78		755207
2		233639
4		926672
A		341342
1		924324
27		755207
372		592674
B		395218
140		755207
123		755207
33		755207
2		3075
2		503374
1		120155
64		755207
262		755207
15		666861
390		1064199
5		3075
102		740967
591		607932
39		755262
14		3075
128		755207
1		121470

Lot	Schedule	DP
138		755207
1		503374
131		755207
132		755207
12		3075
631		816256
16		666863
1		659580
36		755207
442		583057
16		650270
1		233639
2		924324
3		926672
148		728974
125		755207
139		755207
149		728974
120		755207
18		3075
1		924715
6		3075
118		755207
122		755207
121		755207
A		395218
134		755207
4		3075
391		1064199
1		7878
77		875281
1		3075

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
443		583057
22		776221
1021		1077984
212		1111524
435		1111527
3		1117220
441		583057
100		1127677
110		1132753
116		755262
10		7878
126		755207
71		1003724
67		838117
1		405908
9	D	8463
111		866761
2		225347
16	A	882
41		1021628
1		110130
2		808863
C		347390
1		120133
21	A	882
		61900
3		225347
22	A	882
631		1027743
33		858667
7008		1115785
7007		1115769

Lot	Schedule	DP
9		251755
8		251755
563		1126323
12		1131198
2		593443
31		1020241
11		1131198
3		1131198
9		217082
3		212388
63		838117
1		217082
6		217082
34		1020241
30	4	2707
573		1068916
8	B	882
14	A	882
23	C	882
32		1020241
1	H	882
7	D	8463
102		869715
101		1019162
4A		371847
6		521787
5		521787
8	D	8463
1		795648
3		808863
7		217082
A		347390

Lot	Schedule	DP
25	B	882
12		513190
3	D	8463
18	C	882
20	C	882
632		1027743
310		1010925
7		1131198
5		1131198
1		877078
1	C	882
13	B	882
16	B	882
19	B	882
1		808863
1		1137645
7035		92703
66		838117
16	C	8463
4		212388
18	B	882
8		9428
155		538591
11	D	8463
15	A	882
1		225347
69		838117
2		837518
10	B	882
24	B	882
2		971670
4		217082

Newstan Colliery - Extension of Mining Project
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Lot	Schedule	DP
24	A	882
22	C	882
01	8	2505
2		212388
9	A	882
17	C	882
10	A	882
2	D	8463
5		217082
31		553567
112		866761
1B		401798
593		607932
70		1078962
511		1099406
6	H	882
11		1104733
B		395841
4		1131198
6		1131198
7	C	882
17	B	882
17	A	882
156		538591
11	A	882
24	C	882
2		1048246
B		371856
15	B	882
9	B	882
12		545843
2		405908

Lot	Schedule	DP
50		849622
72		1003724
101		869715
11		545843
33		1020241
18	A	882
8		217082
32		553567
22		521231
7		9428
1		837518
17	C	8463
19	C	882
16	C	882
1		593443
42		1021628
74		838117
512		1099406
1		1096070
15		1099516
7012		1125788
9	C	882
14	B	882
2	C	882
8	C	882
2		1131198
8		1131198
1		1131198
10		1131198
9		1131198
3	5	1097
2		360044

Lot	Schedule	DP
4		7661
12		245239
3	3	1097
42		7661
36		7661
47		245239
1		206903
5	F	882
131		247904
		72260
2		582296
B		408799
1		513567
2	2	1097
197		7661
71		7661
182		247904
8		7661
12		862116
24		7661
8	A	882
22		245239
21	4	1097
1		261973
7	5	1097
23	4	1097
2		206903
14		35890
229		7661
202		7661
27	4	1097
25		7661

Newstan Colliery - Extension of Mining Project
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Lot	Schedule	DP
5		500196
39		7661
9		7661
138		7661
B		388029
5		7661
29		245239
95		247117
195		248401
4	A	882
9	5	1097
6		560162
227		7661
152		247904
105		7661
197		248401
228		7661
A		395841
186		247904
131		7661
250		7661
100		1019162
40		245239
206		7661
992		626729
1		631829
28	4	1097
142		7661
66		247117
A		438629
125		247904
1		544526

Lot	Schedule	DP
1		35144
2		110130
1681		881573
226		7661
51		849622
1622		717438
2401		570303
1		509598
5	11	1097
3		217082
39		245239
2	1	1097
68		838117
75		7661
107		7661
222		7661
1		213869
114		879363
201		7661
311		1010925
48	9	1097
12	3	1097
35		245239
17	4	1097
16	2	1097
217		7661
41		245239
2		27806
18		245239
991		626729
4	9	1097
1		506000

Lot	Schedule	DP
55		592911
108		247904
18	2	1097
71		1049659
2		217082
23	A	882
31		7661
61		247117
125		7661
117		879363
10	9	1097
202		1064174
3		9428
31		245239
213		7661
1		245239
3		504530
12	D	8463
B		347390
12		118851
21	C	882
9	6	1097
21		521231
20	4	1097
21		525081
93		7661
2		16060
102		7661
1		433868
73		7661
2		327773
101		1127677

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Lot	Schedule	DP
3		1031778
2		1031778
20		1031778
15		1031778
13		1031778
59		755207
3		1135751
2		749334
2		1137645
6		46737
143		7661
144		7661
302		755207
234		755207
19		1031778
321		1109363
475		773273
		75093
1		23569
257		755207
2	11	1097
186		7661
8	3	1097
269		7661
122		247904
17		35890
203		7661
35		7661
76		7661
174		247904
90		247117
113		247904

Lot	Schedule	DP
22	3	1097
74		7661
225		7661
1		215400
2	6	1097
1		7661
17		245239
55		7661
7	9	1097
2112		810392
200		248401
30	4	1097
8	9	1097
173		7661
212		602014
170		7661
132		247904
6	1	1097
23		7661
2		261973
21	3	1097
5		27806
17	3	1097
2	A	882
149		247904
2		544526
21		35890
5		261973
7	3	1097
103		247117
11	2	1097
2		715679

Lot	Schedule	DP
4		503241
21		543960
172		247904
102		1149241
137		247904
194		248401
6	2	1097
171		247904
6		7661
52		245239
5	3	1097
11		245239
9	3	1097
175		247904
34		245239
89		247117
126		247904
14	D	8463
17	5	1097
1		1048246
1	5	1097
72		247117
4		507334
157		7661
190		247904
51		7661
2402		570303
6	9	1097
219		7661
5	8	1097
189		247904
230		7661

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
862		774045
27		7661
4		245239
132		7661
176		247904
244		7661
22		827135
33		627906
1		877105
1		594417
28		245239
13	2	1097
83		247117
4		27806
3		500196
156		247904
167		7661
6		27806
7		245239
113		832854
128		7661
4		23569
53		245239
48		245239
4	7	1097
188		247904
134		7661
153		247904
2		504530
10	2	1097
114		7661
92		247117

Lot	Schedule	DP
165		247904
110		247904
		64208
		71940
169		247904
32		245239
6	E	8463
22	4	1097
1		207103
3		200347
2	9	1097
221		7661
2	4	1097
174		7661
5	7	1097
106		7661
8	7	1097
187		247904
136		247904
10	11	1097
62		247117
155		7661
476		773273
93		247117
201		1022613
3		7661
2		500196
22		515646
94		7661
67		7661
104		7661
71		247117

Lot	Schedule	DP
29	4	1097
178		247904
205		7661
59		247117
152		7661
242		7661
50		7661
32		627906
105		247904
104		247904
872		556881
18	3	1097
3	B	882
1		981295
98		7661
270		7661
4	8	1097
49		245239
7	E	8463
62		7661
246		7661
25	A	882
190		7661
6	B	882
97		247117
58		7661
173		247904
8	5	1097
119		247904
19	D	8463
37		7661
87		247117

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
203		248401
193		7661
271		7661
6		9428
122		7661
44		245239
81		247117
106		247904
4		261973
88		247117
12	5	1097
91		247117
54		245239
3		631829
11	11	1097
2		620548
182		7661
57		245239
4		926559
205		248401
112		7661
115		247904
8		618164
101		247117
44	9	1097
112		247904
19	4	1097
2	5	1097
1B		374326
170		247904
16		7661
13	D	8463

Lot	Schedule	DP
1		360044
193		248401
248		7661
15	2	1097
68		7661
1		308520
6	C	882
115		7661
199		7661
13		35890
16		245239
2		631829
26		7661
139		247904
5		560162
3	7	1097
14	5	1097
5		19924
4		19924
13	5	1097
3	11	1097
26	4	1097
192		248401
5	2	1097
194		7661
23		245239
166		247904
2		245239
6	7	1097
10		19924
102		247117
2	B	882

Lot	Schedule	DP
72		1049659
9	7	1097
181		247904
94		247117
64		247117
98		247117
20		245239
243		7661
1621		717438
27		245239
200		1022613
101		1107392
102		1107392
147		7661
1		504530
4	4	1097
2		563416
7		618164
6	5	1097
129		247904
164		247904
60		247117
133		7661
15	5	1097
24		245239
30		245239
2404		570303
118		247904
2		594417
189		7661
33		245239
2		506000

Newstan Colliery - Extension of Mining Project
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Lot	Schedule	DP
11	1	1097
3		16060
116		7661
3		563416
109		247904
13	11	1097
223		7661
19		35890
16		35890
1		620548
9	11	1097
10	5	1097
13	1	1097
43		245239
121		247904
2		200347
		62894
19		7661
6		16060
2		507334
84		247117
86		247117
42	9	1097
16	5	1097
161		247904
70		7661
211		602014
9		9428
26		245239
		68400
3	1	1097
136		7661

Lot	Schedule	DP
133		247904
4	5	1097
254		755207
7	4	1097
5	5	1097
242		663777
121		7661
		73947
1		177014
116		247904
48		7661
2	3	1097
85		247117
3	2	1097
38		7661
22		543960
6	4	1097
123		7661
4		500196
11	5	1097
1		198581
22		525081
163		247904
240		7661
12	11	1097
20	3	1097
204		248401
215		7661
128		247904
15	D	8463
8	4	1097
126		1043570

Lot	Schedule	DP
		49398
21		827135
99		247117
55		245239
		62895
126		7661
1	1	1097
52		7661
3		27806
251		755207
183		575220
18	D	8463
25	4	1097
57		7661
2		209767
4		9428
127		247904
9	1	1097
110		7661
180		247904
11	3	1097
5	1	1097
31		627906
179		247904
162		247904
124		247904
1	B	882
21		245239
89		7661
20	5	1097
11		862116
1		723287

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Lot	Schedule	DP
9		245239
44		7661
146		247904
12		700205
40		7661
100		247117
92		7661
49		7661
220		7661
7		19924
67		247117
66		755207
123		247904
2		1052908
65		7661
42		245239
241		755207
28		7661
201		248401
111		7661
10	4	1097
10		245239
319		7661
172		590690
69		247117
76		247117
154		247904
66		7661
7	11	1097
158		247904
185		247904
3		507334

Lot	Schedule	DP
1		582296
78		247117
187		7661
8		261973
6	8	1097
6		245239
23		827135
183		7661
3	4	1097
51		245239
252		7661
160		247904
185		7661
2		7661
199		248401
1711		839728
4	1	1097
18		35890
65		247117
195		7661
4		16060
108		7661
9	9	1097
200		7661
249		7661
182		575220
12	1	1097
184		575220
1		373152
188		7661
9	2	1097
1		327773

Lot	Schedule	DP
14		7661
79		247117
158		7661
23		35890
9	4	1097
167		247904
		49232
15		35890
68		247117
169		7661
1		507334
1	7	1097
993		626729
50		245239
1	4	1097
41		7661
147		247904
47		7661
7		261973
4	B	882
28	C	8463
53		7661
5		926559
153		7661
154		7661
18	4	1097
2		508294
5		9428
25		245239
214		7661
117		247904
103		7661

Newstan Colliery - Extension of Mining Project
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Lot	Schedule	DP
113		7661
13		245239
43	9	1097
24	4	1097
43		7661
59		7661
12		35890
69		7661
9		261973
861		774045
3	A	882
12		7661
124		7661
151		7661
78		7661
3		513567
3		23569
1		916218
3		512785
2		23569
322		1109363
7037		1053019
201		1129549
		81320
250		755207
7		1031778
5		1031778
17		1031778
18		1031778
115		879363
146		7661
148		7661

Lot	Schedule	DP
4		46737
5		46737
6	A	882
216		7661
151		247904
150		859767
12		261973
140		247904
25	5	1097
198		7661
135		7661
80		247117
171		590690
135		247904
14		245239
73		247117
5		16060
17		7661
10		261973
15		245239
141		7661
12		548369
2		513567
2		373152
41	9	1097
63		7661
7		7661
46		7661
138		247904
10	7	1097
1		165155
45		7661

Lot	Schedule	DP
1		120587
2		215400
17	2	1097
12	9	1097
8	2	1097
75		247117
A		388029
2		508049
191		7661
16	4	1097
18		7661
5		245239
6		261973
155		247904
1	9	1097
116		879363
1	6	1097
10	3	1097
21		1003062
13		548369
1		508294
11	9	1097
14	3	1097
80		7661
157		247904
13		7661
183		247904
224		7661
8		19924
251		7661
137		7661
1		550215

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
64		7661
245		7661
1		563416
72		7661
320		7661
13	3	1097
3		503241
111		247904
24	5	1097
12	2	1097
96		7661
30		7661
130		247904
10	6	1097
11		7661
177		247904
10		7661
11	6	1097
272		7661
19	3	1097
1	A	882
168		247904
114		247904
29		7661
198		248401
6	11	1097
1		500196
96		247117
10	1	1097
77		7661
B		438629
142		247904

Lot	Schedule	DP
84		7661
15		7661
117		7661
7	7	1097
232		7661
4	3	1097
19	5	1097
156		7661
6		926559
3		261973
1623		717438
16	3	1097
1	11	1097
212		7661
184		247904
1		715679
8	E	8463
871		556881
77		247117
5	B	882
8		245239
1		27806
196		248401
1		929112
14	2	1097
127		7661
141		247904
56		592911
159		247904
90		7661
241		7661
1680		881573

Lot	Schedule	DP
127		1043570
1		508049
2		981295
85		7661
4	11	1097
253		755207
3		245239
11		261973
2111		810392
1		512785
196		7661
1		926559
2403		570303
1	3	1097
166		7661
5	6	1097
218		7661
101		7661
13	9	1097
46		245239
1	2	1097
176		7661
252		755207
159		7661
4		504530
107		247904
204		7661
82		247117
5	4	1097
134		247904
45		245239
36		245239

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
4	2	1097
9		19924
2		560283
5	A	882
54		7661
56		245239
20		35890
1		521091
2	7	1097
120		247904
247		7661
202		1022613
150		247904
8	1	1097
109		7661
7	A	882
22		35890
63		247117
2		9428
207		7661
19		245239
7	2	1097
148		247904
191		248401
143		247904
38		245239
129		7661
3	9	1097
2		207103
56		7661
202		248401
21		515646

Lot	Schedule	DP
184		7661
81		7661
268		7661
79		7661
6	3	1097
37		245239
7	1	1097
58		245239
95		7661
70		247117
24		35890
2		25664
20		28375
155		32038
27		248036
C		415589
3		503974
8		835633
49		835633
5	9	1097
22		28375
243		844413
289		7661
15	24	1097
19	17	1097
18	5	1097
301		7661
11	19	1097
74		247117
130		7661
1		408024
1		854050

Lot	Schedule	DP
2		512785
7006		1115779
265		755207
202		1129549
1		307008
10		1031778
8		1031778
6		1031778
4		1031778
16		1031778
9		1031778
11		1031778
12		1031778
1		1108065
3		926559
630		816256
2		1135751
9		1135751
8		1135751
61		665346
2		926559
259		1139078
140		7661
139		7661
149		7661
1		1052908
150		7661
256		755207
145		7661
324		39984
2		516171
13		248036

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
258		243257
169		32038
57		835633
41		1093011
12		264234
30		1070146
12		1070146
76		1070146
79		1070146
13		1070146
80		1070146
9		1070146
81		1070146
280		237530
179		32038
288		7661
1		209444
3		1002247
12	18	1097
24		28375
3	14	1097
326		857889
87		32038
36		878177
1		106780
196		32038
26	9	1097
302		857889
306		7661
9		248036
9		32038
269		237530

Lot	Schedule	DP
226		32038
1	15	1097
8		32038
212		844413
13		21303
9	21	1097
51	2	2707
311		857889
2	23	1097
211		844413
35	11	1097
300		7661
A		369495
303		857889
45		248036
11		30502
40		248036
108		32038
8		35890
16	11	1097
2		734792
427		1006267
		64277
250		844413
305		857889
21	6	1097
182		32038
5		835263
4		30502
42		740081
186		32038
7046		1052029

Lot	Schedule	DP
7	21	1097
22	11	1097
4	12	1097
267		7661
2		877781
313		857889
125		32038
8		877781
226		844413
4		20522
172		840964
C		361746
35	20	1097
15	13	1097
12	14	1097
B		404402
193		32038
8		31028
6		23230
314		7661
165		32038
6A		399970
50		878177
37	11	1097
334		857889
5		24813
21		878177
17	13	1097
12	24	1097
12		36739
39		878177
		51718

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
110		32038
30	11	1097
16		21303
289		237530
318		7661
181		737273
8		30975
222		1061883
57		32038
1		516171
245		243257
46		248036
50		32038
1		558768
15	11	1097
8		25414
7	8	1097
303		7661
35		248036
116		32038
9		28375
32	11	1097
106		32038
10	14	1097
73		32038
472		860305
302		237530
1		214129
1	16	1097
9		21303
426		1006267
15		20522

Lot	Schedule	DP
231		231832
329		857889
32		805099
7	13	1097
336		857889
12		372658
319		857889
4	17	1097
4		25664
247		844413
5	16	1097
286		237530
6	15	1097
1		20522
242		243257
43		878177
1		25664
17		28375
17		20522
45		835633
8	19	1097
14		372470
19	6	1097
6		20522
316		7661
171		32038
37		835633
13		264234
35	9	1097
8		28378
39		248036
B		375351

Lot	Schedule	DP
A		335651
11		518455
10		28378
C		380672
25		878177
99		32038
261		7661
1		443098
15		21303
2		35144
3		248036
2	18	1097
25	C	8463
17		835633
16	21	1097
11	12	1097
312		857889
22		32038
A		404402
3		32075
317		246215
A		370711
20	11	1097
10		28375
248		243257
154		32038
2		23230
9	8	1097
8	14	1097
203		530759
109		32038
56		835633

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
241		243257
40		1070146
58		1070146
74		1070146
45		1070146
15		1070146
32		1070146
16		1070146
8		1070146
23		1070146
242		1102308
		78004
1		1104766
		79370
100		1114606
228		32038
26		1070146
C		36739
100		1139278
320		597355
96		32038
311		7661
14	15	1097
53		32038
2		558768
2		248036
26		248036
		49740
49		32038
4		213521
151		32038
17	24	1097

Lot	Schedule	DP
7		32075
30	9	1097
223		32038
221		844413
279		237530
18	17	1097
22		835633
408		1006267
38	9	1097
14	11	1097
8	21	1097
255		7661
C		375351
428		1006267
94		32038
1	23	1097
44		248036
162		32038
134		32038
332		857889
A		375563
D		404402
47	2	2707
301		857889
4		30975
4	16	1097
7		25414
34		835633
237		844413
341		857889
3	6	1097
84		248036

Lot	Schedule	DP
1	10	1097
252		243257
		55264
20		32038
4		835263
13	14	1097
4		877781
10		248036
285		7661
18	15	1097
12	F	8463
275		237530
227		32038
29	20	1097
8	20	1097
29	9	1097
190		32038
1		1002247
3	16	1097
27	6	1097
172		32038
264		7661
28		878177
253		243257
1	24	1097
262		243257
88		32038
4		1002247
2		609514
267		237530
124		32038
1		442777

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
93		32038
310		7661
43		248036
280		755207
10	12	1097
208		844413
4	10	1097
26		835633
		74648
20		248036
14		21303
5		248036
10	24	1097
230		36739
4		35890
15		499543
6		28378
8		21303
42		835633
19		248036
4		28378
204		844413
5		35144
54		835633
6		32038
38	11	1097
11		264234
7		25664
147		32038
40	11	1097
330		857889
31	19	1097

Lot	Schedule	DP
139		32038
250		243257
5		516171
2		28378
13	21	1097
6		25414
2		32038
218		844413
2		883847
C		404402
4		248036
28		663308
52		32038
157		32038
91		32038
13		24813
12	21	1097
24		22489
168		32038
295		237530
4		21303
22		1045779
28	6	1097
45		878177
233		844413
274		237530
211		32038
232		844413
14	14	1097
41		835633
201		530759
296		237530

Lot	Schedule	DP
228		36739
45	11	1097
2	E	8463
7	15	1097
9		32075
11		878177
60		835633
424		1006267
13	22	1097
4	6	1097
31	20	1097
263		237530
6	18	1097
3		311344
16		32038
243		243257
137		32038
104		32038
415		1006267
105		32038
28	9	1097
33		835633
B		369495
9	10	1097
32		835633
1		578573
200		32038
3		516171
19		32038
26	6	1097
5	15	1097
39	9	1097

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
32		878177
20		835633
7	12	1097
3	E	8463
6	6	1097
7	18	1097
210		844413
249		844413
5		23230
265		237530
12		21303
237		755207
6		248036
429		1006267
197		32038
41		878177
19	13	1097
170		32038
2	24	1097
314		857889
30	6	1097
31		805099
37		248036
180		32038
2		11403
325		857889
402		1006267
47		248036
9		25664
132		32038
234		844413
321		857889

Lot	Schedule	DP
266		237530
1		21303
176		32038
129		32038
30	20	1097
2		35890
15	6	1097
18		32038
175		32038
1		213521
361		1118358
171		1120803
2		1121811
52	2	2707
252		1132923
84		1070146
1		1139765
7		32038
117		32038
205		844413
6	13	1097
309		7661
434		1006267
219		844413
17	15	1097
53	2	2707
18	20	1097
13		372470
8		20522
9		878177
316		246215
21		32038

Lot	Schedule	DP
15		878177
3	18	1097
17	17	1097
12		28378
7		21303
240		844413
1	19	1097
217		844413
216		844413
231		844413
244		243257
2	10	1097
6	10	1097
50	2	2707
36	9	1097
2		359881
B		335651
5		30502
278		237530
12	20	1097
251		844413
9		30502
204		32038
318		857889
31		662839
15		28375
7		24813
5		21303
315		246215
13	20	1097
8	22	1097
131		792049

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
12		372470
30		878177
141		32038
9		31028
202		530759
3	23	1097
42		248036
36	20	1097
		50017
307		255624
4		35144
29		878177
10	19	1097
4		11403
53		835633
567		629334
14		32038
44	11	1097
49		878177
95		32038
10		32075
2	14	1097
258		7661
5	22	1097
164		32038
19		28375
7		30975
242		844413
304		7661
18	F	8463
436		1006267
11		28375

Lot	Schedule	DP
257		243257
1	21	1097
307		857889
166		32038
1		186800
4		23230
6	22	1097
9		28378
47	11	1097
262		7661
7		877781
416		1006267
138		32038
42	11	1097
86		32038
9		35890
1		32038
173		32038
239		844413
4	21	1097
435		1006267
3		23230
4		408024
220		844413
50		835633
312		7661
271		237530
6		835633
29	6	1097
150		32038
131		32038
223		844413

Lot	Schedule	DP
1		522862
38		878177
23		28375
2		25414
158		32038
184		736658
1		32075
136		32038
115		32038
15		24813
17		654734
15	14	1097
11	16	1097
180		836064
22		22489
5	E	8463
14	20	1097
19	24	1097
229		844413
195		32038
333		857889
3		21303
126		32038
27	20	1097
10	16	1097
15		264234
167		32038
17	11	1097
7		248036
201		32038
3	15	1097
46	11	1097

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
5		30975
9	20	1097
100		778203
10		32038
471		860305
338		857889
1		11403
7		835633
4		516171
6	16	1097
9	14	1097
12	13	1097
12		24813
206		32038
15	18	1097
7	16	1097
224		844413
1		613605
2		209444
49	2	2707
101		1003935
12		248036
11	20	1097
14	16	1097
20	17	1097
9	15	1097
A		364049
34	20	1097
16	17	1097
31	11	1097
48		32038
4		25414

Lot	Schedule	DP
33	9	1097
4		32075
1	E	8463
4	E	8463
25	11	1097
3		20522
44		878177
185		32038
41	11	1097
14	13	1097
249		243257
18	21	1097
5		31028
47		878177
17	20	1097
3		28378
20	15	1097
82		32038
10		35890
1		209939
17	21	1097
10		25664
1		184826
65		1070146
54		1070146
52		1070146
51		1070146
70		1070146
42		1070146
43		1070146
44		1070146
46		1070146

Lot	Schedule	DP
37		1070146
22		1070146
11		1070146
3		1070146
4		1070146
101		1084193
32		1093013
35		1093013
34		1093013
44		1093011
241		1102308
2		1104766
		78450
85		755207
173		1120803
1		1121811
251		1132923
307		755207
308		755207
16	20	1097
34	9	1097
207		844413
265		7661
20	6	1097
13	10	1097
6		35890
5		11403
8	8	1097
4	14	1097
7		28378
66		1070146
11		1066866

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Schedule of Land

Lot	Schedule	DP
33		1093013
1111		1084177
405		1006267
218		32038
3		835263
19		878177
12	10	1097
6	21	1097
18	13	1097
299		7661
21		835633
26	C	8463
2		21303
225		844413
8	10	1097
111		32038
404		1006267
23		22489
433		1006267
23		835633
301		237530
134		1018692
8		248036
55		32038
22		878177
319		246215
		66205
3		877781
17		32038
305		237530
6	F	8463
5	13	1097

Lot	Schedule	DP
25		22489
17		22489
244		844413
50		248036
183		32038
7		1066866
177		32038
11		32075
3		504925
145		32038
225		32038
1		201410
235		844413
39	11	1097
144		32038
11	22	1097
422		1006267
21		22489
100		619083
219		32038
251		243257
25	9	1097
255		243257
309		857889
1		609514
3	10	1097
10	F	8463
18		22489
A		400937
339		857889
103		1003935
304		237530

Lot	Schedule	DP
14		264234
15		835633
406		1006267
2		213521
291		755207
16		878177
247		243257
207		32038
203		32038
321		1052538
		68490
9	19	1097
12	16	1097
160		32038
11		25414
133		32038
198		32038
5		32075
13	15	1097
43		789644
120		1001005
18		20522
303		237530
31		878177
23		878177
418		1006267
51		248036
161		32038
40		878177
11	23	1097
10	18	1097
19	15	1097

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
1		500079
10		25414
2	13	1097
13	18	1097
3		554282
32		662838
26	11	1097
2		504925
30	19	1097
10		30502
52		835633
153		32038
15		32038
288		237530
33	20	1097
5		20522
222		844413
56		32038
292		237530
246		844413
5		35890
1		208746
191		32038
163		32038
423		1006267
266		7661
337		857889
291		7661
B		370711
54		32038
12		835633
254		243257

Lot	Schedule	DP
305		7661
107		32038
100		32038
414		1006267
259		243257
18		248036
9	18	1097
07	3	2707
8	16	1097
246		243257
6		24813
420		1006267
3	12	1097
3		25414
211		600531
19		24813
308		255624
14	18	1097
5		28378
297		237530
295		7661
305		755207
37	9	1097
		69635
189		32038
26	20	1097
38		248036
A		361746
43	11	1097
213		844413
300		237530
7		30502

Lot	Schedule	DP
13		835633
33		248036
326		614456
16		28375
1		503974
5	14	1097
24	20	1097
227		844413
11	21	1097
12	23	1097
184		32038
120		32038
121		1001005
324		857889
431		1006267
317		7661
7		20522
1		554282
1		30975
192		32038
3		32038
3	21	1097
17		878177
312		255624
2	C	8463
B		364049
4	13	1097
E		415185
3	17	1097
421		1006267
17	6	1097
15	20	1097

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
221		32038
12		20522
16	6	1097
261		243257
58		1079319
64		1070146
41		1070146
60		1070146
53		1070146
69		1070146
72		1070146
75		1070146
21		1070146
38		1070146
34		1070146
19		1070146
10		1070146
14		1070146
28		1070146
85		32038
5	10	1097
294		7661
14	22	1097
31	9	1097
12	6	1097
2	15	1097
241		844413
7		31028
1		883847
202		32038
1	17	1097
14		528017

Lot	Schedule	DP
92		32038
5		32038
21		1045779
2		24813
16	13	1097
10	20	1097
1		35890
401		1006267
11	10	1097
15	15	1097
1		24813
214		844413
17	19	1097
2	16	1097
146		32038
1		504925
10		21303
08	3	2707
215		32038
279		755207
11		20522
304		857889
2	12	1097
5	18	1097
3		30975
8	13	1097
17		248036
34	11	1097
15	21	1097
106		1003935
46		835633
14		835633

Lot	Schedule	DP
298		7661
24	9	1097
10		20522
308		7661
15		248036
14		24813
142		32038
3		35144
3		11403
9		24813
45		32038
7	6	1097
16	19	1097
216		32038
11	13	1097
28	20	1097
32	9	1097
238		844413
46		878177
256		243257
6		877781
22	6	1097
41		248036
11		835633
4		32038
320		857889
159		32038
14		20522
27		835633
18	24	1097
127		32038
20		878177

Newstan Colliery - Extension of Mining Project
Schedule of Land

Lot	Schedule	DP
29	11	1097
18	11	1097
13	13	1097
214		32038
11		372658
33	11	1097
10	13	1097
2		30975
10		835633
327		857889
2	20	1097
48		248036
4	15	1097
283		237530
112		32038
263		7661
2		201410
6	12	1097
135		32038
21		28375
208		32038
11		24813
281		237530
128		32038
4		212507
256		7661
5	F	8463
17	F	8463
36		248036
27	9	1097
28	24	1097
8	18	1097

Lot	Schedule	DP
412		1006267
209		32038
10	3	2707
313		7661
9		835633
3		28375
174		32038
11	F	8463
212		32038
24		878177
18	6	1097
10	23	1097
10	15	1097
12	22	1097
21	11	1097
2		613605
13		20522
18		835633
430		1006267
25	20	1097
46		32038
260		7661
340		857889
270		237530
29	2	2707
14	21	1097
28	11	1097
287		7661
14		878177
149		32038
3	22	1097
37		878177

Lot	Schedule	DP
206		844413
245		844413
3	13	1097
282		237530
297		7661
862		528641
425		1006267
18		654735
5	21	1097
48		878177
35		878177
6		32075
309		255624
272		237530
9	12	1097
7	20	1097
287		237530
19		835633
257		7661
403		1006267
3		213521
1		25414
194		32038
15	16	1097
228		844413
33		878177
24	11	1097
310		857889
113		32038
7044		1052029
12	12	1097
1		835263

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Lot	Schedule	DP
205		32038
11	15	1097
26		878177
43		835633
40		835633
417		1006267
13	F	8463
1		359881
36	11	1097
294		237530
322		857889
9	13	1097
181		32038
8	12	1097
1		910983
16	14	1097
86		248036
213		32038
2		503974
48	2	2707
411		1006267
12	15	1097
83		248036
215		844413
299		237530
6		30975
2	21	1097
259		7661
30		835633
3	19	1097
410		1006267
11	18	1097

Lot	Schedule	DP
148		32038
293		7661
2		408024
31		785595
229		36739
1		23230
286		7661
8		30502
315		857889
10	22	1097
9		25414
1	22	1097
25	6	1097
323		857889
9		30975
9	F	8463
11	14	1097
83		32038
16		248036
15	19	1097
268		237530
16		24813
1		30502
29		835633
		60681
27		878177
19	11	1097
98		32038
432		1006267
90		32038
13	24	1097
8		32075

Lot	Schedule	DP
119		32038
89		32038
16	16	1097
413		1006267
B		361746
171		840964
2		30502
23	6	1097
285		237530
217		32038
284		237530
44		32038
B		400937
296		7661
6		1066866
B		387011
55		835633
307		7661
306		755207
15	17	1097
8	6	1097
16	24	1097
210		32038
25		835633
130		32038
2		28375
298		237530
4		28375
10	10	1097
13	6	1097
7	22	1097
1	20	1097

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Lot	Schedule	DP
264		237530
220		32038
143		32038
11		248036
8	15	1097
2		20522
306		857889
4	18	1097
52		248036
1		28378
224		32038
203		844413
17		24813
1	C	8463
2	17	1097
48		835633
230		844413
335		857889
10		24813
25		248036
331		857889
51		32038
407		1006267
1	12	1097
102		1003935
11		21303
52		542285
7045		1052029
16		835633
302		7661
15	F	8463
3		25664

Lot	Schedule	DP
7058		1052031
34		878177
328		857889
23	20	1097
4	23	1097
11		35890
3		35890
16	F	8463
1	18	1097
58		835633
156		32038
4	22	1097
8	F	8463
342		857889
1		248036
292		7661
6		31028
18		878177
49		248036
11		880265
16	15	1097
10		755207
13		878177
3		209939
260		243257
5	12	1097
51		835633
10		878177
290		7661
10	21	1097
233		231394
419		1006267

Lot	Schedule	DP
5		877781
6		30502
16		20522
32		739805
9		20522
27	24	1097
8		24813
152		32038
7	14	1097
3		755207
221		1061883
18	19	1097
24	6	1097
32	20	1097
1		877781
5	17	1097
409		1006267
12		878177
236		844413
2		835263
105		1003935
293		237530
4	19	1097
311		255624
310		255624
222		32038
318		246215
40	9	1097
314		255624
316		857889
14	24	1097
38		835633

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Lot	Schedule	DP
23	11	1097
104		1003935
34		248036
178		32038
42		878177
315		7661
317		857889
18		24813
140		32038
7		35890
1	13	1097
290		237530
2	22	1097
3		408024
27	11	1097
2		32075
47		32038
16		654733
3		30502
308		857889
7	10	1097
199		32038
6	14	1097
9	22	1097
7	F	8463
6B		399970
118		32038
248		844413
1		520731
14	19	1097
14	6	1097
39		835633

Lot	Schedule	DP
188		32038
1		28375
63		1070146
85		1070146
59		1070146
56		1070146
55		1070146
50		1070146
49		1070146
48		1070146
47		1070146
71		1070146
73		1070146
77		1070146
78		1070146
82		1070146
29		1070146
33		1070146
20		1070146
5		1070146
1		1070146
2		1070146
6		1070146
7		1070146
27		1070146
31		1070146
1112		1084177
		76084
		76213
1		398502
31		1093013
42		1093011

Lot	Schedule	DP
43		1093011
87		755207
362		1118358
172		1120803
61		1070146
		80549
351		1139042
352		1139042
321		597355
8		25664
5		25414
120		1014246
85		248036
11	24	1097
84		32038
13		528017
9	23	1097
18		28375
1	14	1097
14	F	8463
209		844413
9	16	1097
A		387011
2		554282
2	19	1097
C		405530
11	B	9140
7		6929
8		35532
42	A	9140
10	3	2505
4		11573

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Lot	Schedule	DP
43		239161
2		12042
79		9120
6	C	8463
C		356376
09	4	2707
14	B	9140
22	3	2707
38	2	2505
11		7601
1		21596
5		13505
7		12604
6		13505
09	1	2707
41		239161
42	2	2505
300		755207
81		850081
5		10731
19	1	2505
12		456285
01	1	2505
22		13231
3		247293
1		175447
7		8179
4		314200
11		239161
1		317952
		68293
1		449884

Lot	Schedule	DP
22		579526
09	3	2505
04	6	2505
22		808578
8		740193
40	A	9140
10	1	2505
11		625421
29		504198
17		30975
7009		1029140
2		565538
532		526657
26	1	2505
221		1051801
18	3	2707
39		7601
1		510434
1		34231
7039		1030675
291		237530
3	C	8463
97		32038
15		10925
D		415589
14	2	2505
187		32038
25		7601
44		835633
09	2	2505
14		248036
5		311344

Lot	Schedule	DP
A		391778
39	A	9140
19	7	4236
49		8868
23		588604
B		390173
37	A	9140
22		566972
31	A	9140
25		4236
25		8636
3312		1052953
22	C	8463
B		404769
2		12604
A		381998
9		12229
12	2	2505
15	2	2505
05	6	2505
		31599
1		13671
20		4236
A		356144
		71037
13		239161
14		30975
15		4236
292		853635
34		239161
		22376
28		7601

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Lot	Schedule	DP
144		755207
11	1	2505
31	2	2505
531		526657
2		346051
04	3	2505
8		12042
2		852427
24	C	8463
52	1	2505
9		656670
2		541429
14	1	2505
4		9800
		62025
47	1	2505
10		239161
B		342824
2		359494
45		239161
1		327232
3		17252
81		9120
09	6	2505
1		950464
18A		13231
22		8636
1		541465
1		1075158
4		7601
1		663714
33		1098243

Lot	Schedule	DP
23		1070645
2		1096070
18		10925
17		10925
		79939
60		239161
10		1132902
3	A	8463
14		239161
32		239161
D		356376
85		9673
11	4	2707
5		9800
42	1	2505
1		11877
28		239161
1		354870
A		363490
6		35532
71		9111
14		8179
9	A	8463
15	B	9140
2		1025897
26		8636
13	1	2505
09	1	2505
9		8179
B		411157
22		576887
2		12847

Lot	Schedule	DP
4	C	8463
6		9800
2		349962
3		31028
23		239161
87		9673
44	1	2505
4		310136
38		239161
07	6	2505
		67939
04	8	2505
5		456287
16	2	2505
1		183606
8		13505
18	7	4236
2		8636
28	1	2505
1		12604
2		207836
25		8179
11		12229
4		17252
19		239161
41	3	2505
19	2	2505
40		239161
1		512045
15	2	2707
A		363314
C		356144

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Lot	Schedule	DP
7		12229
15	3	2505
9		13505
10		16661
5		25152
2		512557
5382		622416
B		379066
A		373015
31		8636
2	A	8463
1		188433
23	C	8463
13		12847
19		8636
22	1	2707
A		377510
9		13671
21		8636
03	1	2505
22		8179
		45787
57		8868
48		239161
4		25152
40	3	2505
33		4236
13		30975
28		504198
59		8868
5	B	9140
3		13671

Lot	Schedule	DP
A		414584
100		709326
10		12604
48		8868
26		504198
10	4	2707
B		336962
3		240283
5381		622416
4		12847
16		13505
A		953214
B		382532
21		588604
1		360557
2		310136
1		13087
32		4236
41	A	9140
21	C	8463
20	1	2505
1		256481
2		512901
21		13231
78		9120
B		371249
19	1	2707
64		8868
1		798586
14	2	2707
51		8868
1		879742

Lot	Schedule	DP
14		12229
5	B	8463
08	1	2505
67		8868
7		13671
08	1	2707
15		30975
2		7601
3		7601
58		8868
1		124233
8	C	8463
15		8179
A		927240
B		363314
1		13505
04	2	2707
4		21596
40		7601
2		593599
04	2	2505
111		1042457
5383		622416
09	2	2707
6		8179
A		355864
8		8179
60		1020131
34	A	9140
34		4236
A		336962
2		206138

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Lot	Schedule	DP
8		23230
25		455708
A		362459
3		13505
7		1056041
5		11877
30		7601
9		12604
18	3	2505
21	2	2505
C		338821
1		361948
181		717209
47		8868
10		30975
55		239161
14		7601
13	3	2505
46	3	2505
11		23230
10		570602
3		502352
9	C	8463
16		30975
6		17252
6		13671
02	2	2707
A		382532
A		404769
1		517000
36		8636
18		8179

Lot	Schedule	DP
6		6929
4		10731
		48899
1		589430
16		239161
48	1	2505
12		810245
2		517000
21		576887
2		35532
15		456286
6		13087
3		565538
4	A	8463
12		30975
2		361948
21		579526
51	1	2505
D		102690
19	C	8463
13	2	2707
34	1	2505
13		8179
15		23230
9		11877
19	3	2707
80		9120
12	1	2505
6		8636
3		12604
20	3	2505
45	2	2505

Lot	Schedule	DP
12	3	2505
11		12847
4		346268
21	3	2707
06	2	2505
11A		371712
10	2	2505
25	1	2505
14		23230
123		790629
21		808578
33	3	2505
50	1	2505
2		609564
42	3	2505
2		634222
1		399228
6		12229
23	1	2505
27		7601
44	A	9140
10		10731
5		240283
12	B	9140
20	2	2505
13		10925
13		456286
1		12847
341		786435
B		348423
05	1	2505
45		8868

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Lot	Schedule	DP
4		35532
1		1025897
27		504198
21	1	2505
66		8868
1		31028
6	B	9140
29		7601
32	2	2505
1		247293
38	A	9140
222		1051801
299		755207
20		8179
10		18098
5		8636
28		8636
6		12847
4		13087
9		16661
2		607386
110		1042457
10		7601
3		314200
06	2	2707
1		502352
42		7601
E		102690
4		12604
53		8868
05	3	2505
2		350492

Lot	Schedule	DP
33	2	2505
12	1	2707
1		172907
		45604
50		8868
31	1	2505
8		239161
310		755207
8		240283
41	2	2505
C		958843
1		307831
4		13505
38	3	2505
5		247293
8		12847
22		588604
05	2	2505
83		9673
101		717511
19		8179
7		23230
1		593599
10	C	8463
3		521775
1		318144
3		201410
		44764
1		361395
7A		371712
A		410495
31		1071168

Lot	Schedule	DP
29		8179
21		1070645
22		1070645
3		1096070
		77879
1		1106195
1		1111640
100		1110774
4		1113453
2		1113453
3		1113453
07	2	2707
01	3	2505
A		390173
A		356376
26		7601
F		102690
1		306296
B		396538
18	1	2707
88		9673
3		25152
16	B	9140
152		1048566
39	3	2505
14		10925
2		512102
03	8	2505
26		239161
24		4236
B		355864
36	1	2505

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Lot	Schedule	DP
21		8179
2		446317
3		35532
4		456287
5	A	8463
7		12847
21		851054
3		510434
19		861577
33	A	9140
7		13505
20	3	2707
36	2	2505
A		342824
3		512557
B		373015
5		35532
07	3	2505
90		9673
8		7601
		57428
01	4	2707
16		10925
24		7601
7	C	8463
21		1042579
		65720
		49031
2		589430
43	1	2505
A		358675
106		791352

Lot	Schedule	DP
45	3	2505
4		12042
33	1	2505
1		176592
A		379066
9		7601
2		13087
52		8868
56		8868
2		313460
56		239161
65		8868
16	3	2505
3		310136
101		879912
40	2	2505
10		12847
1	A	8463
18	2	2505
7	B	9140
7		9800
47	3	2505
B		362488
3		545758
1		8636
12		456286
73		9111
1		565538
10		23230
05	1	2707
A		405530
3		12042

Lot	Schedule	DP
2		247293
46	1	2505
08	2	2707
3		361948
24		8179
10	1	2707
36		7601
4		8636
1		349962
03	2	2505
11		810245
1		313460
30	1	2505
9	B	9140
49	1	2505
A		371249
12	C	8463
2		501430
61		1020131
02	2	2505
8		9800
G		102690
07	2	2505
82		850081
13		23230
113		825283
2		13505
2		11877
2		502352
17	3	2707
6		12604
		57867

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Lot	Schedule	DP
18		100641
32	A	9140
8		12604
32	3	2505
12		7601
1		209247
25		239161
3		10731
B		389995
12		10925
43	3	2505
67		239161
A		411157
1		314496
46		8868
41	1	2505
35	3	2505
3		12847
02	8	2505
5	C	8463
1		239161
24		8636
49	3	2505
5		12604
27	1	2505
31		239161
		52092
20		239161
1		446317
9		10731
3		11877
70		9111

Lot	Schedule	DP
B		102005
34	3	2505
1		605030
1		9800
1		323917
28		8179
1		506571
11	7	2505
101		1110774
1		1113453
8		666750
2		1100426
1		1100426
500		1121325
6		251755
2		1126658
342		786435
1		345150
1		124234
1		359494
03	3	2505
112		825283
35	1	2505
291		853635
16	3	2707
7	A	8463
68		8868
39	2	2505
23		8636
26		8179
2		574117
12		834658

Lot	Schedule	DP
3		405908
		48514
7		10731
		35433
4		31028
B		365730
10	7	2505
6	A	8463
77		9120
6		21596
11	3	2505
5		11573
01	2	2505
1		323051
6		663713
B		356144
A		362488
6		10731
72		9111
323		40243
A		396538
23		4236
55		8868
5		17252
2		13671
26		455708
141		563360
4		11877
22		851054
5		13671
392		727724
43	2	2505

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Lot	Schedule	DP
A		398445
1		314200
69		239161
1		122786
08	3	2505
11	2	2707
Y		406274
14		456286
1		207836
13		456285
2		401917
2		179011
04	1	2505
153		1048566
11		834658
1		724429
14A		403486
A		958843
45	1	2505
232		830653
4		240283
17		13505
94		9673
3		9800
74		9111
B		405530
A		389995
10	2	2707
46	2	2505
2		879742
02	3	2505
1		223782

Lot	Schedule	DP
201		549239
B		378006
22	7	4236
11		8179
1		521775
1		206138
D		377510
19	3	2505
23		8179
23		566972
12		8179
142		563360
15		7601
2		9800
301		1038591
2		346364
21		566972
100		879912
10	B	9140
		53617
4		13671
06	6	2505
B		356376
02	1	2505
25	3	2707
3		879742
9		23230
30	2	2505
B		391778
20	1	2707
17		4236
44	2	2505

Lot	Schedule	DP
7		12042
1		310136
B		381998
12		12847
35		4236
502		857797
B		414584
8	A	8463
8		247293
29		8636
5		13087
5		12847
20	C	8463
1		17252
35	2	2505
82		9120
35	A	9140
21	1	2707
5		239161
1		512557
18		8636
91		9673
34		8636
17	3	2505
12		13505
100		875152
1		376850
08	6	2505
75		9111
		68458
A		365730
1		305988

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Lot	Schedule	DP
13	C	8463
17		8179
03	2	2707
B		410495
A		348423
1		852427
84		9673
16		4236
112		596414
1		11573
3		512102
2122		1116609
101		1115298
12		239161
1		1131199
7032		1077033
512		1132069
3		501430
37		7601
37		239161
9		240283
1		348334
A		102005
51		514649
11		13505
2		510434
		47353
X		406274
12		23230
9		18098
13		7601
8		12229

Lot	Schedule	DP
7		247293
1		350492
16		8179
21	7	4236
7		35532
2		17252
2		31028
C		373015
06	3	2505
50	3	2505
9		740193
8		11877
332		551568
13	B	9140
17	2	2505
7		239161
10		13505
102		717511
93		9673
11		18098
15		13505
24	1	2505
17A		13231
17		100641
4		247293
B		403486
1		634222
20		13231
35		8636
05	2	2707
4		8179
20		1042579

Lot	Schedule	DP
44	3	2505
19		305927
32	1	2505
30		8636
2		11573
41		7601
20		850599
13		13505
1		35532
9		12847
6		11877
3		11573
C		355864
100		717511
3		21596
27		8636
36	A	9140
46		239161
1		346268
8	B	9140
1		607386
48	3	2505
43	A	9140
7		11877
12		18098
18		861577
10		12229
442		788198
111		596414
11	1	2707
10		8179
08	2	2505

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Lot	Schedule	DP
14	3	2505
29	1	2505
B		362459
B		958843
11	2	2505
18	1	2505
100		847314
13	2	2505
1		501430
5		21596
8		10731
1		512901
35		239161
16	2	2707
27		8179
24		1070645
65		1105053
151		1107239
10	6	2505
1		173133
220		1021925
1		1123706
1		1126658
511		1132069
501		857797
6		26115
91		755207
1		26115
5		26115
174		10176
3		26115
11		709236

Lot	Schedule	DP
92		755207
861		528641
6		42587
399		822172
4		26115
10		26115
9		26115
292		755207
359		44963
345		44963
281		755207
7		26115
8		1066866
266		755207
443		1040188
166		10176
89		755207
5	10	758041
200		755207
3	21	758041
5		845676
7	29	758041
1		350481
8	8	758041
395		823682
2		26115
201		755207
7088		1060558
1		516039
202		755207
A		357869
42		804985

Lot	Schedule	DP
702		1030918
61		603232
9	19	758041
61		615460
173		755207
7063		1060426
3	2	758041
1		873289
5	28	758041
8	6	758041
7	37	758041
7	38	758041
2	8	758041
277		755207
5	38	758041
4	38	758041
7094		1060655
31		858764
2		615264
12		623972
197		755207
198		755207
8		26115
16	11	758041
21		830179
212		10176
7096		1060655
8	9	758041
2	38	758041
9	12	758041
100		755207
3	18	758041

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Lot	Schedule	DP
92		825387
340		44381
116		755207
17		875748
209		755207
7		821188
99		755207
207		755207
16		875748
4	19	758041
7062		1060426
10	19	758041
8	38	758041
211		755207
3	38	758041
206		755207
7095		1060655
22		830179
6	38	758041
8	19	758041
10		875748
1		561528
9	38	758041
13		755207
187		755207
62		615460
1	27	758041
3		350481
169		755207
4C		376807
7087		1060557
210		755207

Lot	Schedule	DP
11		875748
2		561528
372		723259
373		723259
199		755207
6	12	758041
4	10	758041
5	19	758041
208		755207
5	21	758041
205		755207
32		858764
41		804985
58		792783
445		1040188
2	43	758041
7070		1077183
7068		1077183
7069		1077183
115		755207
7066		1077182
7067		1077182
7065		1077182
22		1076675
7074		1077184
7072		1077184
7073		1077184
7071		1077184
8		821188
7076		1060556
7075		1060556
196		755207

Lot	Schedule	DP
1	15	758041
117		755207
94		755207
93		755207
96		755207
95		755207
8		1031859
447		1064562
12		1031859
450		1064562
449		1064562
1	32	758041
322		39722
318		39722
8	7	758041
35		1126312
7047		1125954
7052		1057169
4	12	758041
228		755207
294		755207
155		755207
7078		1060554
7079		1060554
1		1139314
248		755207
442		1040184
180		755207
		82244
1	42	758041
1	4	758041
1	40	758041

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Lot	Schedule	DP
448		1064562
341		44381
230		755207
3	30	758041
7	19	758041
475		1138964
97		755207
98		755207
8	30	758041
1	10	758041
12	11	758041
3	43	758041
A		361988
5	2	758041
3	8	758041
165		755207
9	37	758041
8	12	758041
4	43	758041
2		516039
425		823739
7091		1060656
9	10	758041
5	43	758041
4	28	758041
A		371352
7062		1060425
12	37	758041
2	29	758041
8		239629
42		625299
1	9	758041

Lot	Schedule	DP
444		1040188
72		554514
183		755207
B		371352
5	6	758041
11		702043
72		616908
14	11	758041
10	30	758041
12	6	758041
2	37	758041
171		755207
B		361988
6	28	758041
7064		1060437
116		802471
10	2	758041
12		702043
7	8	758041
397		821668
4A		376807
2	2	758041
4	29	758041
192		755207
7079		1060421
2	12	758041
8	10	758041
113		802471
7	30	758041
9	29	758041
2	3	758041
3	29	758041

Lot	Schedule	DP
7090		1060656
4	37	758041
91		825387
7	2	758041
6	21	758041
194		755207
6	10	758041
4	30	758041
1	2	758041
9	6	758041
175		755207
4	11	758041
10	43	758041
3	12	758041
1	29	758041
168		755207
13		249535
5	9	758041
431		1004306
10	38	758041
11		845676
13		702043
8	43	758041
6	6	758041
10		845676
15	11	758041
117		802471
10	29	758041
4	9	758041
9	9	758041
8	18	758041
3	37	758041

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Lot	Schedule	DP
5	29	758041
185		755207
11	6	758041
8	29	758041
9	8	758041
7	12	758041
8	21	758041
166		755207
6	9	758041
184		755207
1	43	758041
301		755207
1	37	758041
1	34	758041
7	21	758041
71		554514
170		755207
1		130632
7	11	758041
3		239629
172		755207
9	30	758041
9		239629
2	7	758041
1		729932
4	2	758041
32		557456
6	30	758041
1		817297
5	8	758041
5	30	758041
4	8	758041

Lot	Schedule	DP
131		622781
4		239629
6	43	758041
2	11	758041
9	21	758041
1	8	758041
7081		1065761
2	9	758041
5	12	758041
213		755207
62		569340
2	21	758041
3	10	758041
7091		1068374
7089		1060558
186		755207
7	9	758041
7	43	758041
114		802471
1	12	758041
3		516039
1	28	758041
7077		1060556
2	10	758041
9	11	758041
2		239629
12	29	758041
52		700659
10	9	758041
7059		1060424
15		249535
52		622344

Lot	Schedule	DP
?	20	758041
11		623972
426		823739
2		873289
5	11	758041
51		700659
7		845676
3	11	758041
115		802471
5	3	758041
10	37	758041
6	29	758041
1	26	758041
8	11	758041
81		519603
4	21	758041
51		622344
7080		1065761
7082		1060553
7	6	758041
4	6	758041
14		249535
10	6	758041
7092		1060654
62		603232
13	11	758041
82		519603
2	28	758041
1	11	758041
9	18	758041
11	37	758041
1	7	758041

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Lot	Schedule	DP
71		616908
2	34	758041
174		755207
101		840773
179		755207
10	18	758041
3	6	758041
162		755207
7078		1060421
7061		1060425
6	37	758041
10	21	758041
132		622781
12		249535
4B		376807
1	38	758041
3	34	758041
1		239629
167		755207
11	29	758041
8	37	758041
10	8	758041
B		357869
118		802471
2	4	758041
7060		1060424
9	43	758041
2	6	758041
31		557456
11		249535
6	11	758041
4		845676

Lot	Schedule	DP
41		625299
61		569340
2	30	758041
3	9	758041
5	37	758041
1	5	758041
102		840773
7083		1060553
129		755207
3	28	758041
163		755207
164		755207
158		755207
451		1033002
452		1033002
195		755207
226		755207
7086		1060557
191		755207
453		1033002
2		1139314
441		1040184
?	24	758041
11	10	758041
10	10	758041
231		755207
212		755207
220		755207
225		755207
218		755207
371		723259
224		755207

Lot	Schedule	DP
5		239629
223		755207
222		755207
227		755207
29	F	2469
10	A	2469
101		709415
4	H	2469
146		755207
161		755207
14	F	2469
7		738277
15	B	2469
2		815846
4	G	2469
3		815846
221		548001
209		755218
692		803634
7	D	2469
18	F	2469
7		239629
10	F	2469
5	E	2469
17	B	2469
13	F	2469
221		755207
141		755207
91		755218
7	G	2469
15		755218
159		755207

Newstan Colliery - Extension of Mining Project
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Lot	Schedule	DP
6	E	2469
10	B	2469
94		755218
100		709415
24	B	2469
3	F	2469
219		755207
16		738277
4	C	2469
10		263605
5	G	2469
216		755207
7	E	2469
15	F	2469
140		755218
110		755207
16	C	2469
6		239629
15	A	2469
38		738277
1		626824
98		755218
27	F	2469
92		812541
17	C	2469
1		815846
16		755218
5	C	2469
23		738277
8		738277
100		755218
96		755218

Lot	Schedule	DP
15	G	2469
702		516825
222		548001
16	G	2469
149		755207
93		755218
8	B	2469
9	G	2469
12	D	2469
95		755218
13	B	2469
147		755207
6	D	2469
99		755218
20	B	2469
2	H	2469
9	F	2469
156		755207
10		738277
54		755218
26	B	2469
7019		1050414
7	A	2469
21	G	2469
19	B	2469
11	B	2469
1	F	2469
1		102746
26	F	2469
1		502590
18	C	2469
89		755218

Lot	Schedule	DP
8	A	2469
14		738277
7014		93169
7053		1052818
40		738277
92		755218
10	D	2469
8	C	2469
1	D	2469
148		755207
11	C	2469
5		786733
7	C	2469
90		755218
9	A	2469
9	C	2469
8	G	2469
3	H	2469
21		532058
145		755207
157		755207
13	D	2469
9		738277
20	G	2469
11	F	2469
7011		1050416
3	E	2469
12	A	2469
3	D	2469
28	F	2469
1		34358
12	G	2469

Newstan Colliery - Extension of Mining Project
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Lot	Schedule	DP
160		755207
21	B	2469
6		786733
1	E	2469
88		755218
2		755218
18		755218
143		755218
17		755218
101		755218
152		755207
150		755207
151		755207
19	G	2469
2	C	2469
143		755207
20	F	2469
11	D	2469
12	B	2469
4	E	2469
4		738277
13		738277
6		738277
5	D	2469
5	H	2469
14	D	2469
23	B	2469
4	F	2469
18	B	2469
15		738277
20	C	2469
91		812541

Lot	Schedule	DP
22	B	2469
39		738277
25	B	2469
17		738277
17	G	2469
5		738277
14	B	2469
6	F	2469
100		818417
26	C	2469
16	B	2469
7	B	2469
6	G	2469
7		738276
5		738276
4	D	2469
12	C	2469
25	C	2469
23	C	2469
21	C	2469
22	C	2469
23	F	2469
11	G	2469
10	C	2469
14	C	2469
30	F	2469
269		755207
11		738277
691		803634
25	F	2469
14	G	2469
1		833614

Lot	Schedule	DP
12		738277
12	F	2469
15	C	2469
22	F	2469
7	F	2469
3	C	2469
2	G	2469
2	F	2469
13	A	2469
10		738276
22		738277
13	C	2469
13	G	2469
5	F	2469
8	E	2469
17	F	2469
6	C	2469
1	G	2469
3	G	2469
9	B	2469
19	F	2469
24	C	2469
9	D	2469
8	D	2469
1	H	2469
14	A	2469
10	G	2469
2	E	2469
8	F	2469
24	F	2469
19	C	2469
11	A	2469

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Lot	Schedule	DP
6	B	2469
21	F	2469
21		738277
16	F	2469
2	D	2469
142		755207
18	G	2469
6	H	2469
20		840668
14		755218
211		840670
50		840671
1		737496
53		755218
20		734860
101		828283
1		817425
184		755218
21		734860
100		828283
10		1050120
187		755218
173		755218
4	A	6747
		82987
15		908034
1		1135751
4		1135751
5		1135751
71		1147323
72		1147323
6		1135751

Lot	Schedule	DP
100		1147923



Centennial Coal

Centennial Coal Company Limited
P O Box 1000
Toronto NSW 2283
www.centennialcoal.com.au

