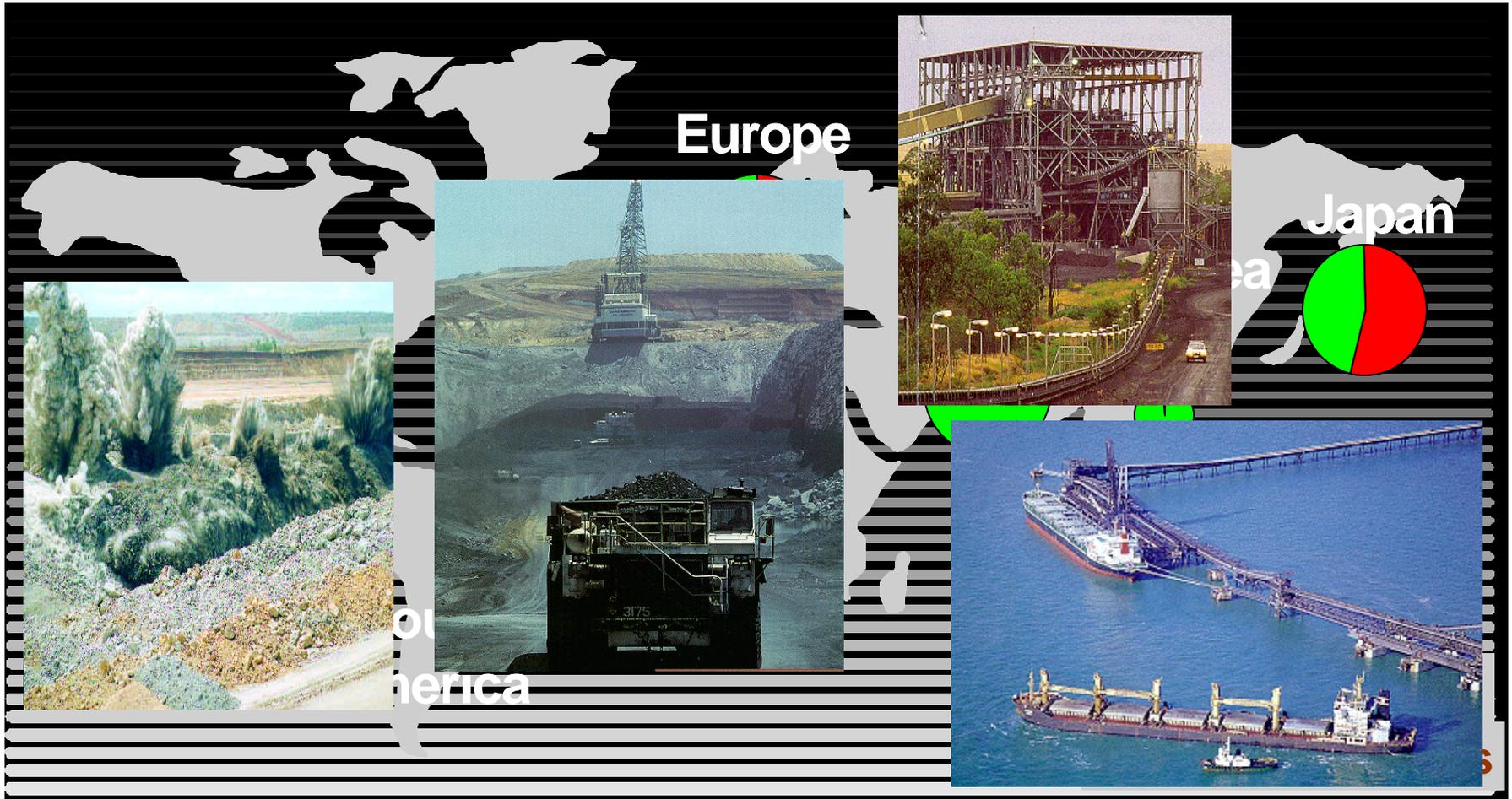


Welcome to Goonyella Riverside Mine



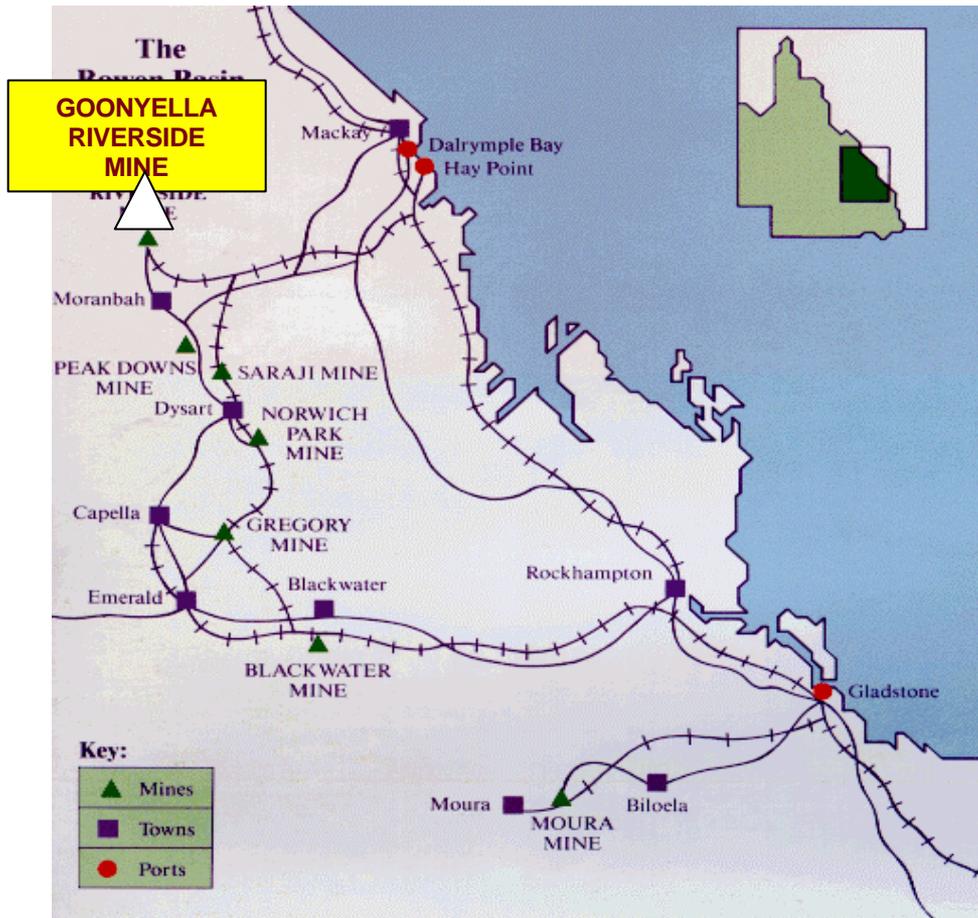
BHP Billiton Mitsubishi Alliance



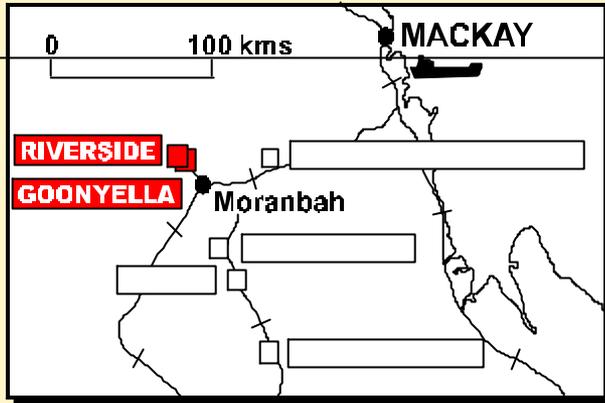
Locality Map



BHP Billiton Mitsubishi Alliance



- One of 7 BMA Coal mines in Central Queensland
 - 11.0 Mt prime coking coal production in YEJ2002
- 190 km by rail, west of Mackay and export coal terminals of Hay Point and Dalrymple Bay
- Employees live in the town of Moranbah, 30 km south of the mine
 - population approx. 7000
 - well serviced rural community
 - 85% of employees own their home, 15% rent company accommodation
 - open town, part of the Belyando Shire



NORTH GOONYELLA

ML 70038

ML 1802

MLa 70121

ML 1900

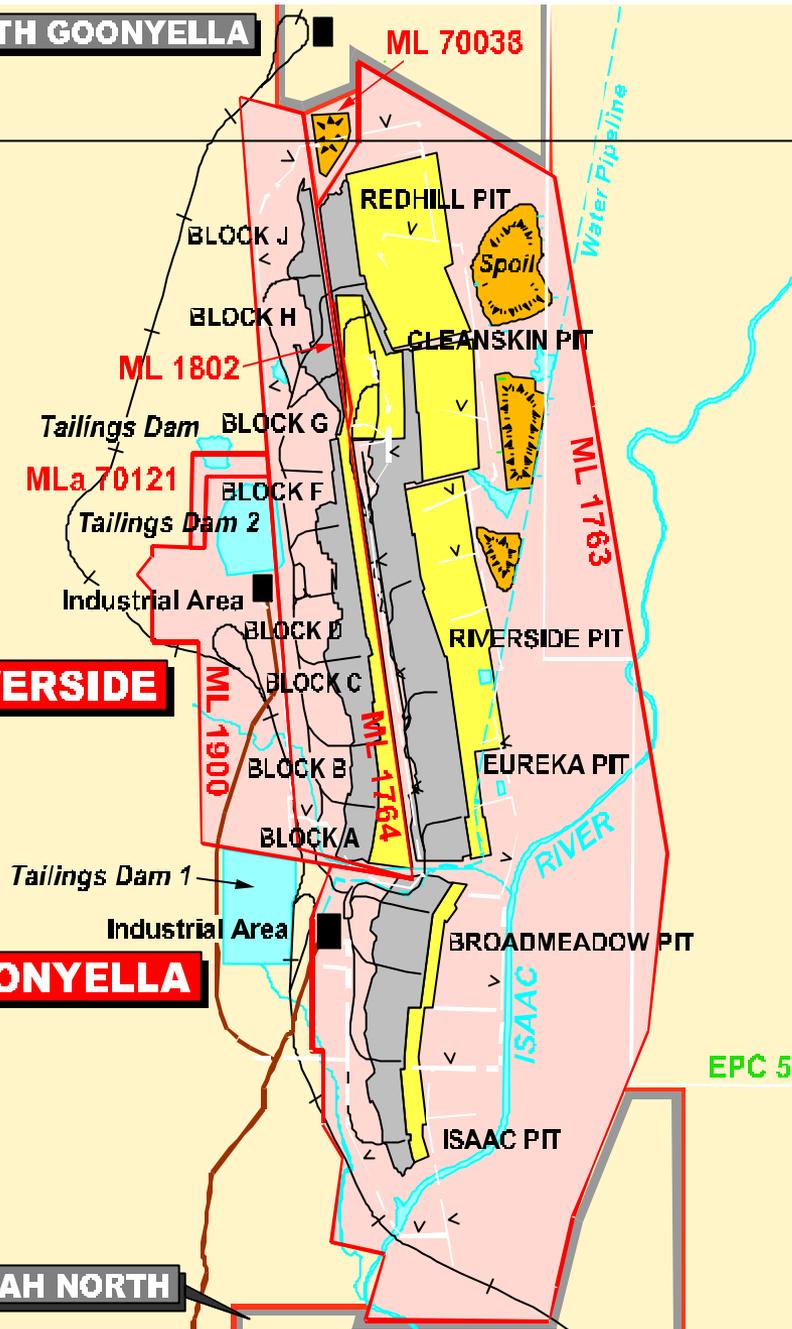
ML 1764

ML 1763

RIVERSIDE

GOONYELLA

MORANBAH NORTH



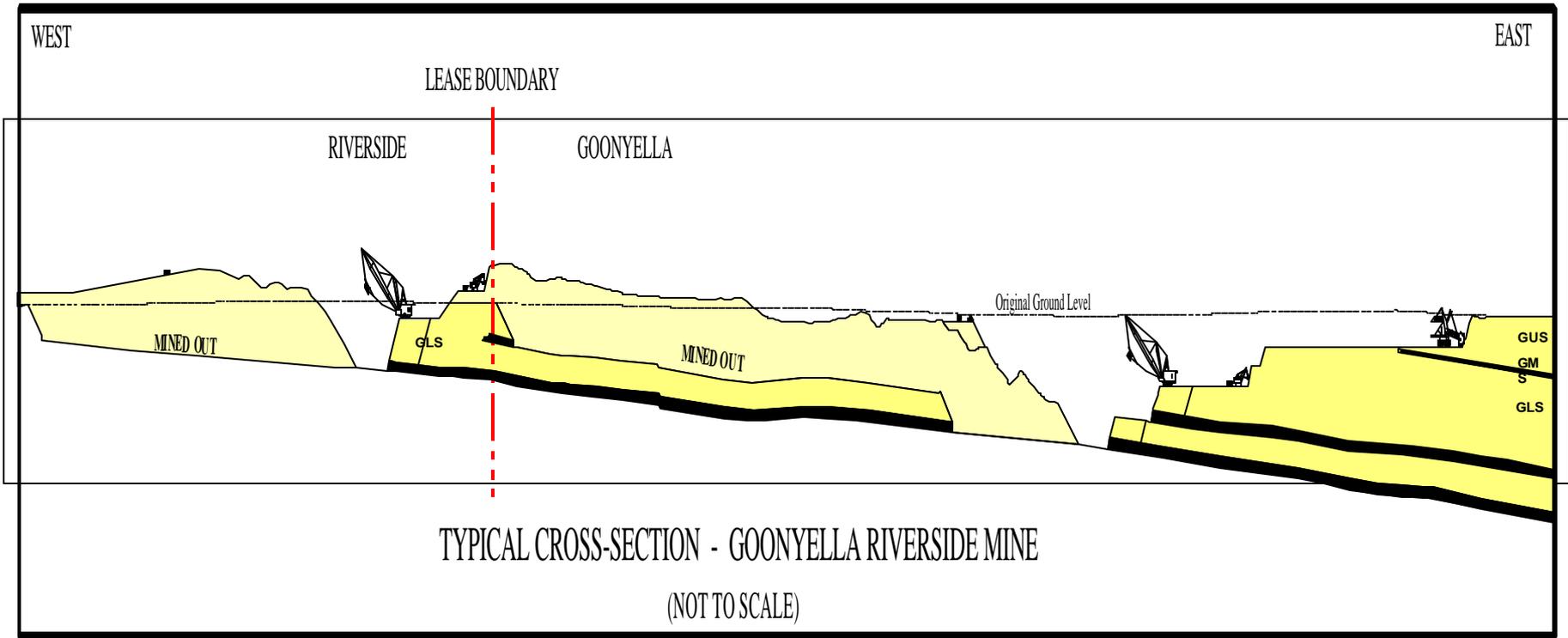
EPC 554 RED HILL

History



-
- 1971 Goonyella Mine commenced operation, owned by CQCA joint venturers, managed by Utah Development Co.
 - 1982 Riverside Mine commenced operation, owned by Thiess Dampier Mitsui, managed by BHP
 - 1984 BHP purchased Utah International Inc, thus major interest in both Goonyella and Riverside
 - 1989 CQCA's Goonyella and BHP Mitsui's Riverside mines' management amalgamated, to give improved operation while retaining separate ownership.
 - 2000 Formal adoption of One Mine Plan enabling optimum use of all site resources – people, equipment and coal
 - 2001 Formation of BHP Billiton Mitsubishi Alliance; Owner of Goonyella and manager of Riverside
-

Typical Cross-section of Mine



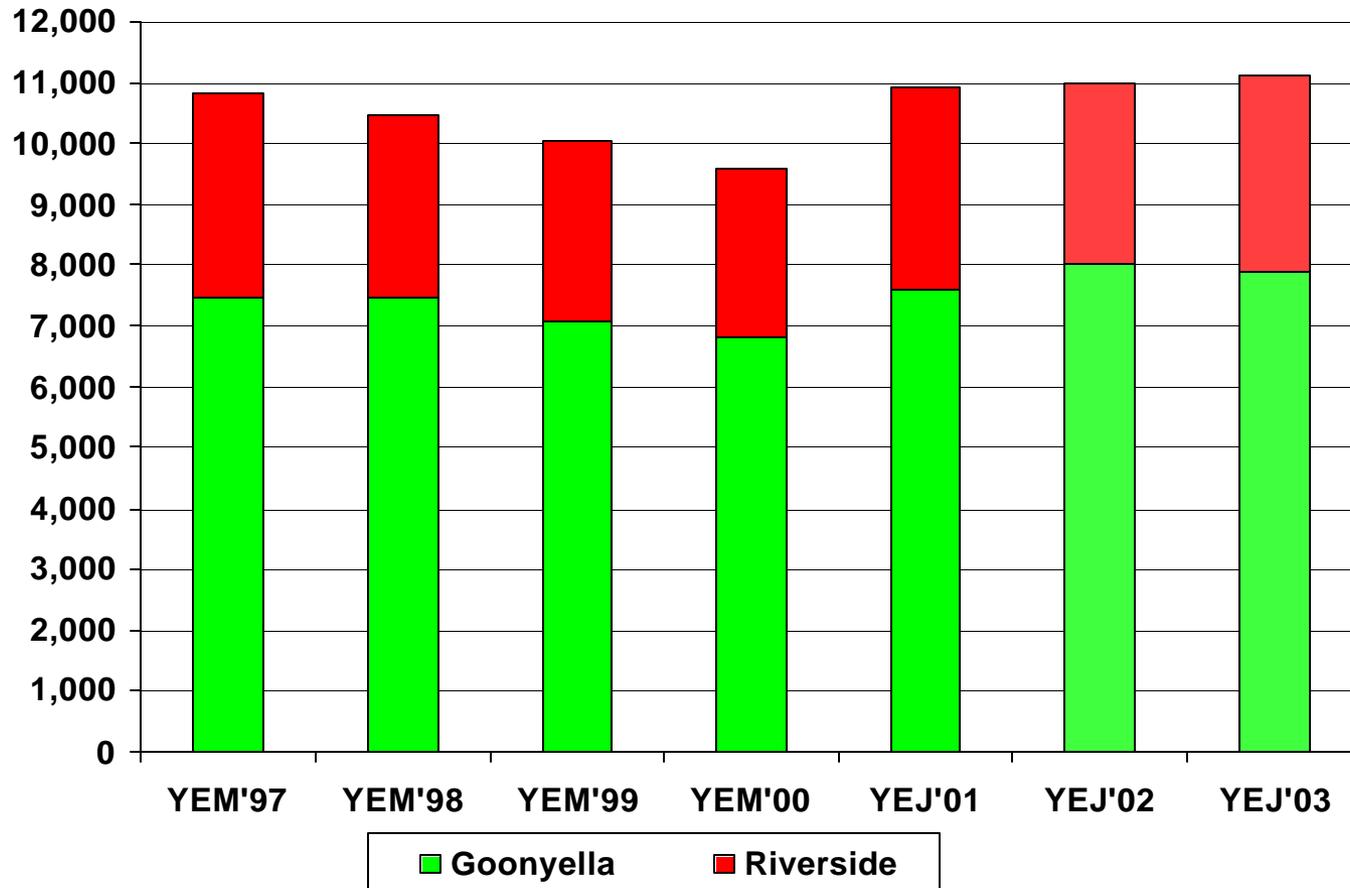
The Coal Resource

- Three seams are mined, the Goonyella Upper Seam, the Goonyella Middle Seam and the Goonyella Lower Seam
- Goonyella (60% GMS, 40% GLS) and Riverside (100% GLS) are high quality, medium volatile coking coals, and are widely recognised for their superior coking characteristics
- Seams dip 3-6 degrees to the East
- Riverside reserves exhausted in 2005; the Riverside product will continue to be produced from the Goonyella lease
- Goonyella has economic open cut reserves of 663 million tonnes
- Goonyella lease has “in situ” resources of about 1.6 billion tonnes.

Annual Production FY97 to FY03



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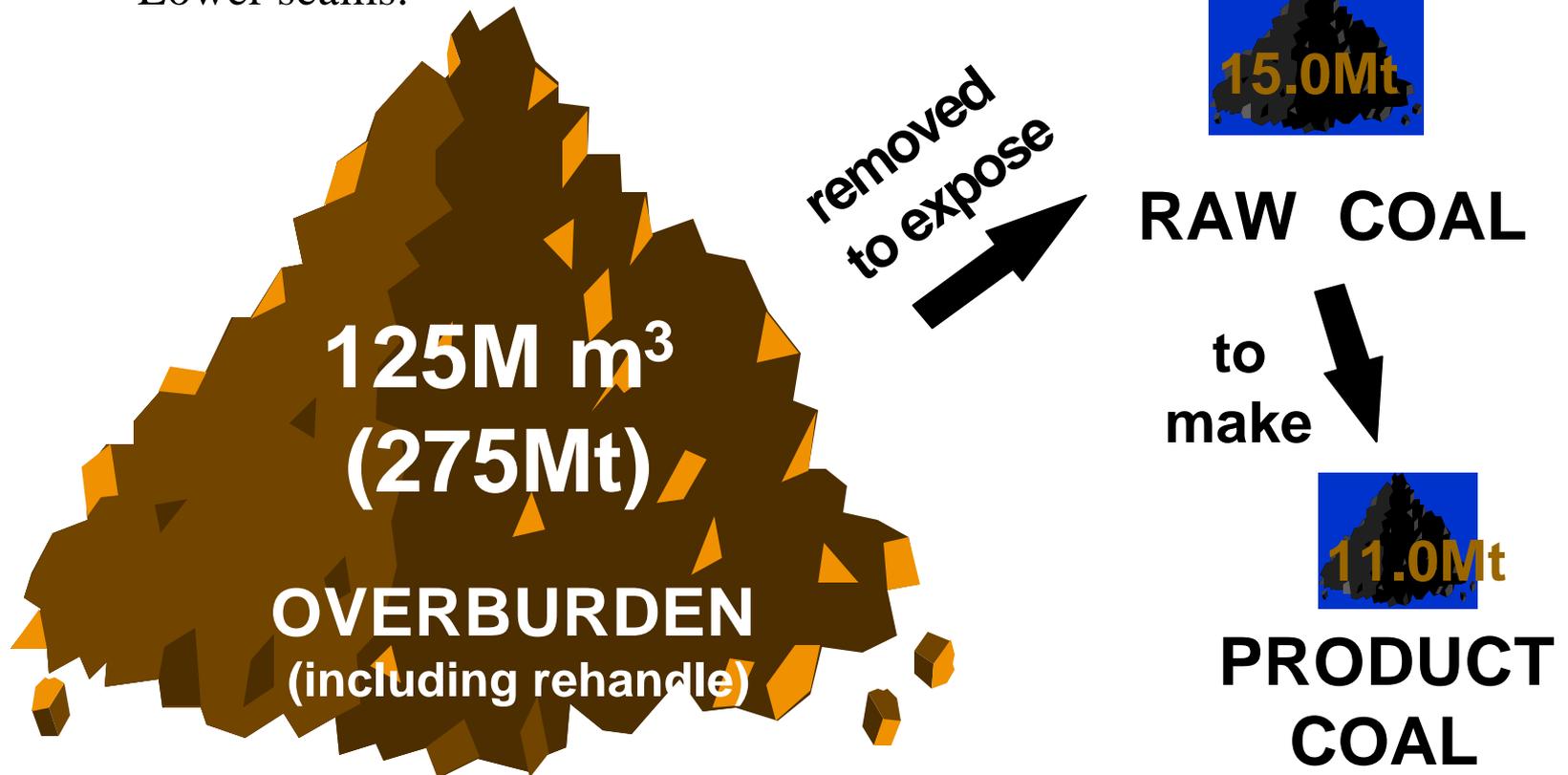


Operations - Open Cut Quantities



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- Open cut strip mine designed to extract Goonyella Upper, Middle and Lower seams.



Coking Coal Production and Transport Process



BHP Billiton Mitsubishi Alliance

1. Remove Topsoil for replacement after mining process is complete

2. Drill&Blast and Remove Overburden

3. Mine & Haul Raw Coal in required sequence

4. Process Coal to Customer specifications

5. Rail to Port and Ship Product to Customer

Overburden Removal - Preparation



- Ground is drilled (270mm holes, 8x8m pattern) using 2 Drilltech D90 drills, and then blasted with bulk explosives (Powder Factor 0.43). GPS drill guidance used, low density explosives trialled

Overburden Removal - Prestrip



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- Overburden depths presently range from about 70 to 150 metres
- As required, overburden is removed by prestrip equipment (50% of total overburden volume):
 - Shovel Conveyor system (P&H 4100XPB shovel (56m³), MMD double roll sizer, conveyors, spreader) – 13m bcm per year
 - P&H 4100XPB (56m³) shovel and 8 x Komatsu 930 E (315t) rear dump trucks – 21m bcm/yr
 - P&H 4100A (43m³) shovel & fleet of 8 x Cat 793 (218t) trucks – 17m bcm yr



Shovel/Sizer/Conveyor System



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- Innovative overburden removal and transport system
- Flexibility of shovel with long-distance cost effectiveness of conveyor
- Shovel feeds blasted or unblasted material into 10,000tph fully mobile sizer
- Sizer ensures top-size (350mm) is suitable for transport via conveyor, up to 5km
- 3 stages of conveyor, fed to spreader, with dozer for final trim



Mobile Sizer



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Truck Shovel Improvement



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- YEJ2001 and 2002 - Upgrading of key equipment took place— 2 x P&H4100XPB shovels (56m³ bucket), 8 x Komatsu 930E (305t) rear dump trucks and ancilliary equipment
- GPS fleet management system is used to optimise fleet movement
- Benchmarked productivity against similar large scale operations, including contractors
- Improving operator technical and team management capability
- Aim to maximise capital and labour utilisation, in order to minimise cost per bcm moved
- 50% of overburden is moved by shovel conveyor and truck shovel - % will increase over time

Komatsu 930E Rear Dump Truck



BHP Billiton Mitsubishi Alliance



Goonyella Riverside Mine

Updated 18/10/01

Overburden Removal - Draglines



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- Primary coal exposure is carried out by draglines
 - three Marion 8050 (51m³) – 16m bcm/yr
 - two BE 1370 (48m³) – 15m bcm/yr
 - two BE 1350 (35m³) – 10m bcm/yr
- Draglines typically remove the final 50 - 60 metres of overburden in multi-pass operations
- Innovations include lightweight buckets and rigging, improved motor response, and Universal Dig and Dump dragline at BMA Peak Downs

Coal Mining

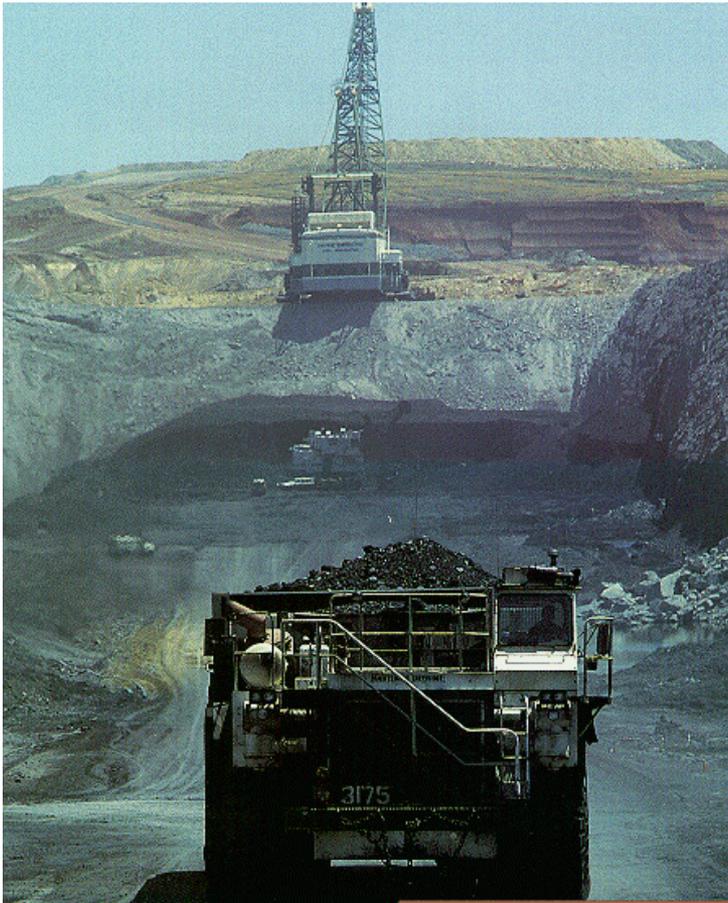


- Coal seams are drilled and blasted prior to mining
- Mining is carried out with 2 front end loaders (Cat 994, 25m³) and 2 hydraulic shovels (O&K RH120, 20m³, being replaced by O&K RH170 excavators with 50% increased capacity) – aim to minimise blasting, so reducing cost and minimising production of lower recovery fines

Coal Hauling



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- Raw coal is hauled from mining faces using a fleet of five 220t (Cat 784) bottom dump trucks and seven 220t (Cat 793) rear dump trucks
- Hauls average 16 km and range up to 30 km. Normally 2 or 3 faces mined in any one shift to achieve blend to plants
- A satellite based tracking and monitoring system is used to manage the coal mining fleet.

Coal Preparation



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- Raw coal from the mining faces is blended and processed by the coal preparation plants (CPP)
- Coal is crushed to -50mm
- Beneficiation involves dense medium separation of coarse (50 x 0.5mm) product from coarse reject, and the use of column flotation to separate fine (0.5 x 0mm) product from fine reject
- Quality is monitored at all stages to ensure products are consistently “on spec”.
- Plants have been modernised using PLC and SCADA control and improved process equipment

Coal Transportation

- Products are transported to Hay Point and Dalrymple Bay coal terminals by a modern electric rail system
 - each train has up to 120 wagons, and carries over 9000 tonnes of coal
- Ports can handle vessels up to 200,000 tonnes capacity.



Principal Production KPIs



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	FY1998	FY1999	FY2000	YEJ2001	YEJ2002	YEJ2003	YEJ2004	YEJ2005	YEJ2006	YEJ2007
PRODUCT TONNES (m)	10.4	10.0	9.6	10.9	11.2	11.0	11.4	11.4	11.5	11.5
STRIPPING TOTAL	138.4	101.6	115.0	105.7	136.2	148.1	152.0	149.8	149.6	166.2
STRIPPING PRIME	105.1	73.6	85.2	78.0	110.8	117.3	115.3	114.2	113.6	129.9
RAW COAL UNCOVERED	16.0	13.2	14.4	14.4	17.2	16.9	17.0	17.1	17.2	17.2
STRIP RATIO										
(Prime to Product)	10.1	7.3	8.9	7.1	9.9	10.7	10.1	10.0	9.9	11.3
(Total to RCU)	8.6	7.7	8.0	7.3	7.9	8.8	8.9	8.8	8.7	9.7
PLANT YIELD %	72.0	71.4	72.2	73.3	73.2	73.1	73.3	73.3	73.2	73.3

Product Qualities

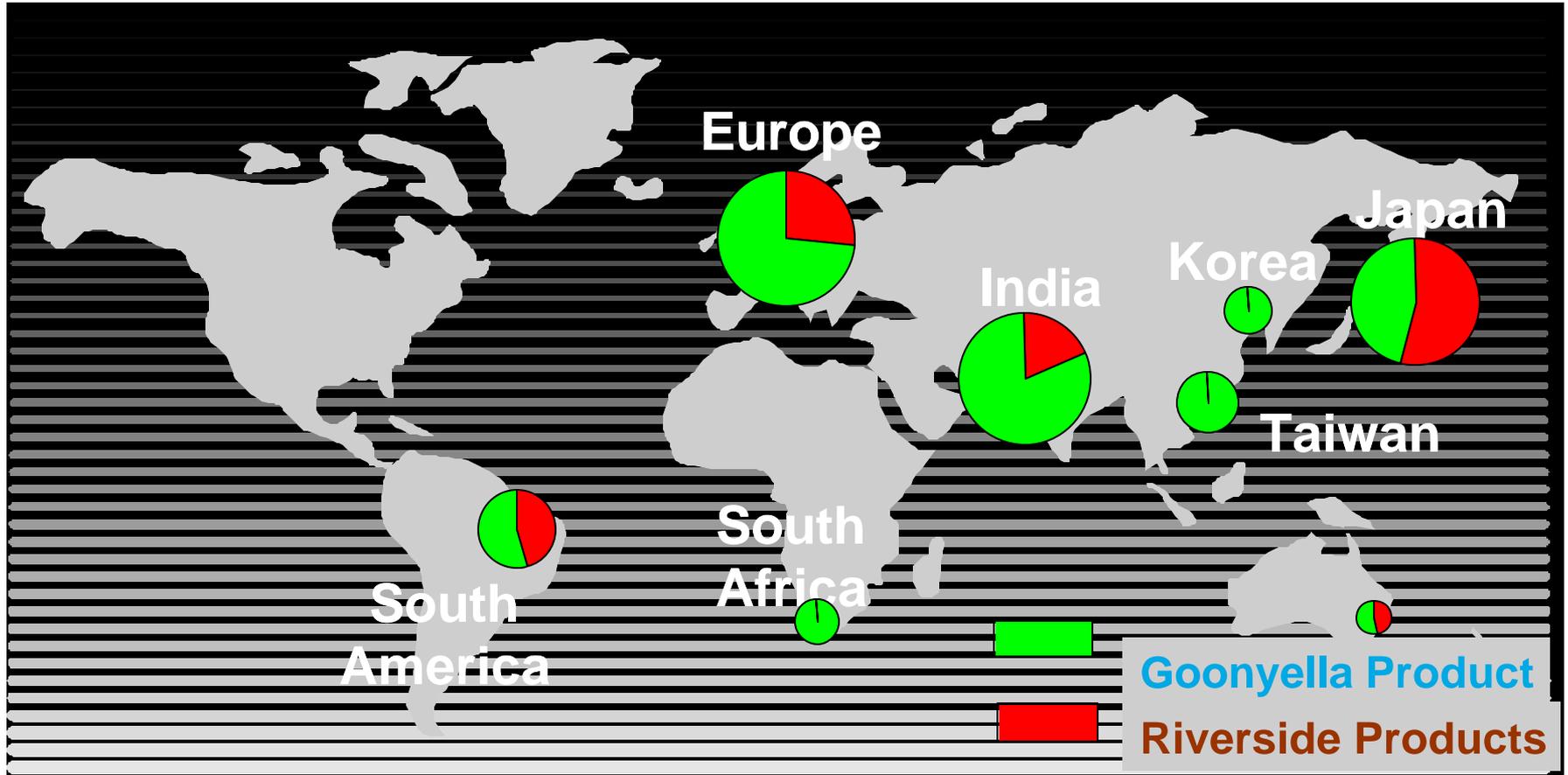
Goonyella Riverside Mine produces premium quality coking coals recognised by their superior coking properties.

	GYC	RVC	RVW
Total Moisture	10.0%	10.0%	10.0%
Volatile Matter (ad)	23.8%	22.0%	22.0%
Ash (ad)	8.9%	9.8%	10.5%
Sulphur (ad)	0.52%	0.55%	0.55%
CSN (FSI)	8	7.5	3.0
Phosphorus (in coal)	0.020%	0.007%	0.007%
Alkali (in ash)	1.2	1.3	
Maximum Fluidity	1100	500	20
CSR (Coke Strength After Reaction)	68	72	
Coke Oven Wall Pressure (psi)	<0.5	<0.5	<0.5

Major Markets



BHP Billiton Mitsubishi Alliance



Products exported to 34 customers in 19 countries in YEJ01.

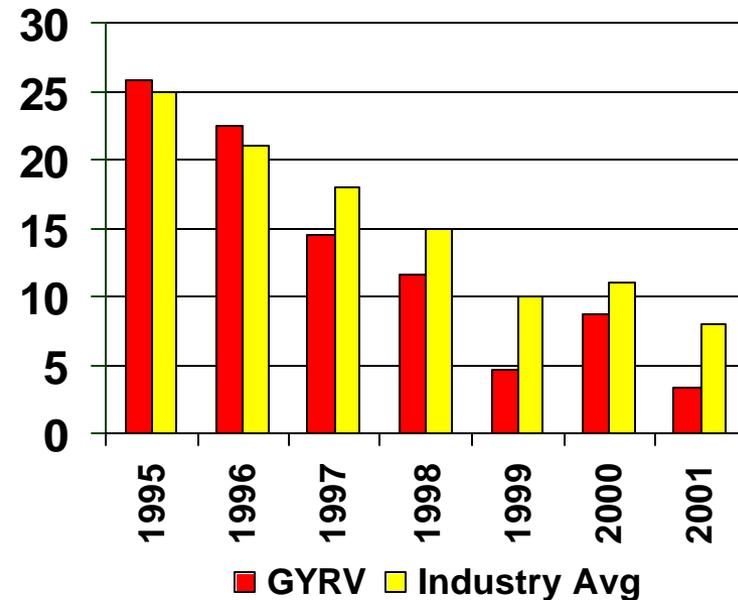
Health and Safety



BHP Billiton Mitsubishi Alliance

- Our Safety Management System (WISE) is underpinned by BHPBilliton's 21 standards
- Currently 4 star NOSA rating, with 5 star effort rating
- Du Pont (behaviour based safety) system introduced June 2000 – demonstrated safety leadership and employee involvement are the keys
- Principal Hazard Management Plan includes Catastrophic and Critical Risk management
- The goal is zero harm, from injury or occupational illness

LTI Frequency Ratio

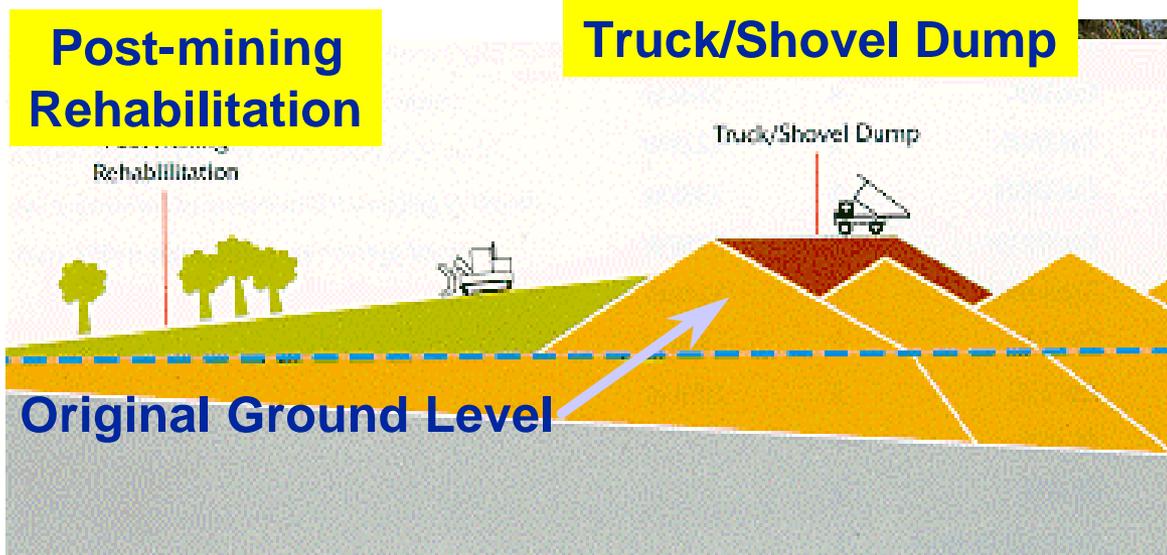


Environment



BHP Billiton Mitsubishi Alliance

- We work under an Environmental Authority (EPA) and carry out an annual Plan of Operations - we aim to achieve ISO14001 certification in YEJ2003
- Principal objectives of our environmental management program are to leave an acceptable post-mining landform, preserve downstream water quality, effectively manage waste and minimise greenhouse gas.



Community and Stakeholders

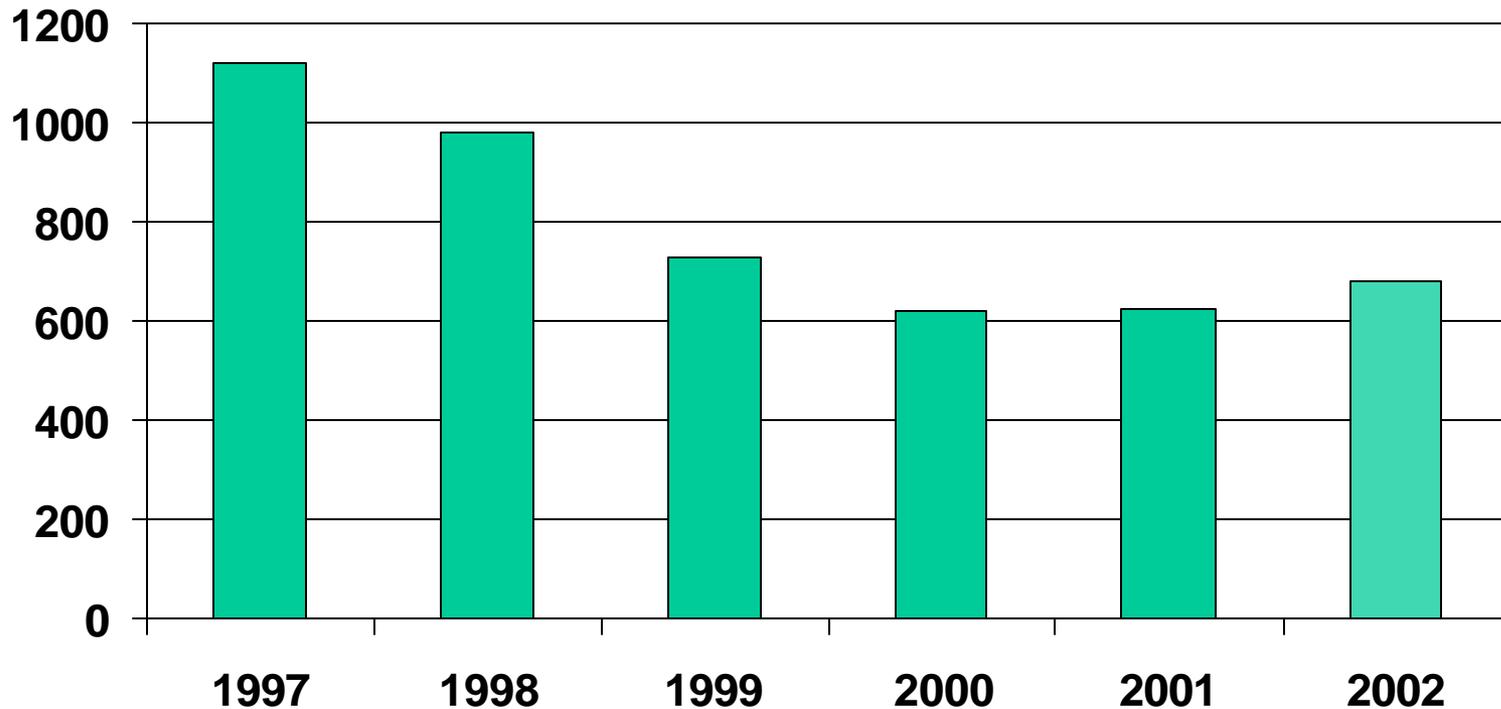


- BMA provides traineeships and apprenticeships for over 20 young Moranbah people each year
- 4 university scholarships per year are funded by employees and BMA
- The Matching Grants program rewards the volunteer efforts of our employees to \$1000/year per employee which is granted to those community organisations for which the volunteer work is done
- BMA has recently subsidised a fulltime computer technician to maintain the 200 computers in Moranbah's 3 schools
- Our annual Health and Wellbeing calendar is produced from the posters of our local schoolchildren, and provides a fundraiser for the schools
- Local disadvantaged youth are supported by our sponsorship of TriQ, an organisation providing and finding employment for youth in need
- A feedlot program operated in cooperation with Goonyella Riverside's closest neighbour produces topsoil for the mine and fattened cattle for sale

Human Resources

- Goonyella Riverside operates 24 hours per day, 363 days per year, with the majority of our 650 employees working either a 7 day continuous 12 hr shift roster (stripping operations) or a 5 day continuous 12 hour shift roster (coal mining and processing operations) averaging 42.5 hrs per week.
 - Employees work under a three year Enterprise Agreement, certified September 2001, as a multi-skilled and flexible workforce
 - Contractors are utilised as required, for peak loads, specialised activities, in vendor maintenance, and in projects
 - Employees are involved in achieving world class performance in all activities, and reducing unit costs, through our Operating Excellence program
 - The employee bonus scheme is based on achieving prime overburden, coal production, and cost targets.
-

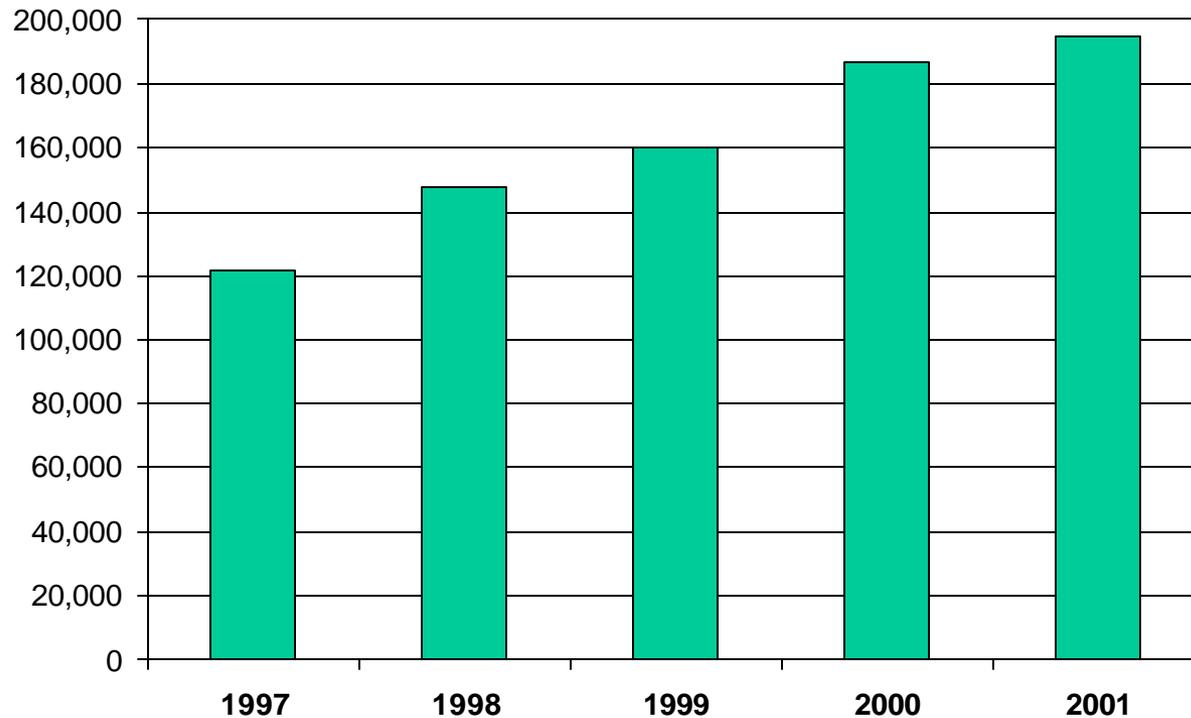
Goonyella Riverside Manning



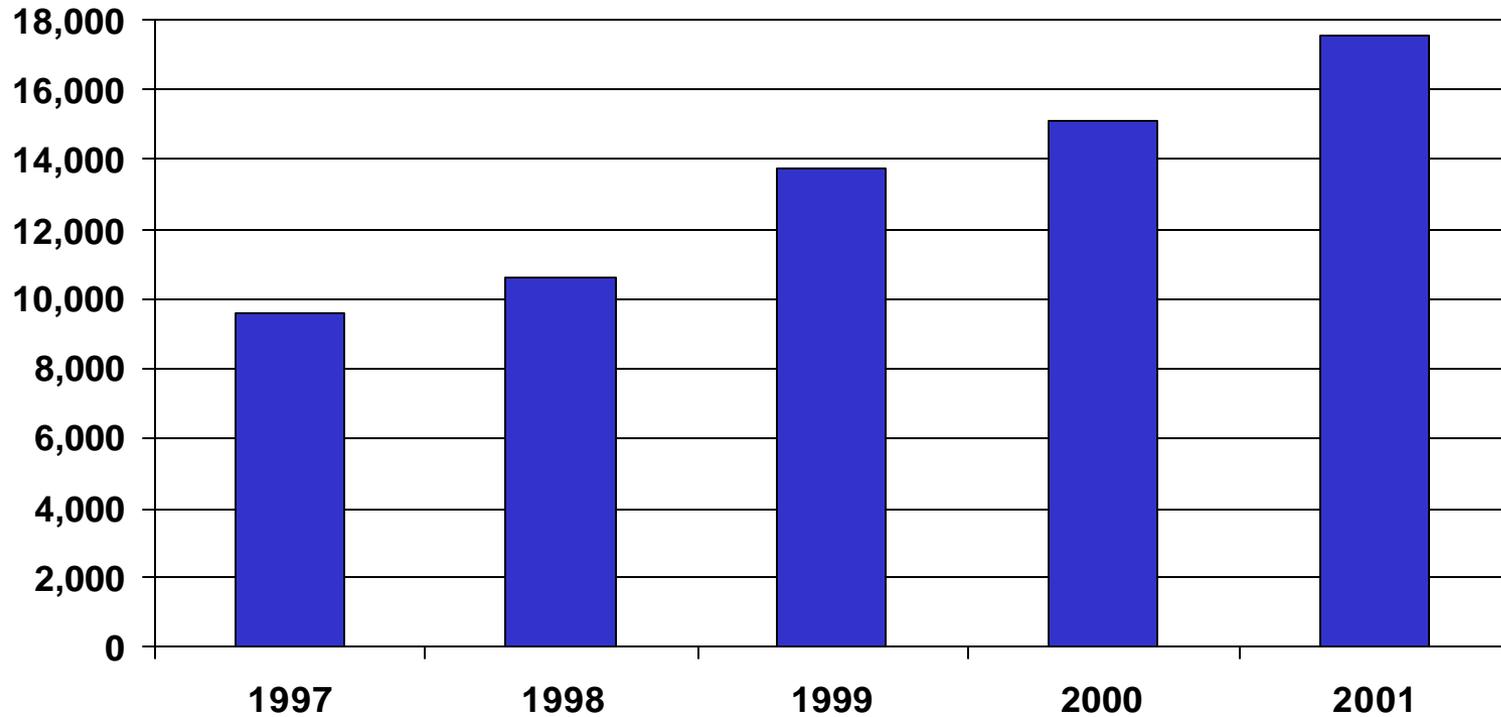
Mine Organisation

- General Manager and 8 departmental Managers
- Mine Operations – 24 supervision, 275 wages
- Mine Maintenance (including Supply) – 35 supervision and planning, 137 wages
- Coal Processing – 19 supervision, 61 wages
- Technical Services – 25 technical, 2 wages
- Safety – 2 staff plus on-site QAS officer
- Business Services – 5 staff
- Human Resources – 4 staff
- Operating Excellence – 2 staff
- Shared Services (offsite) assist in Long Term Planning, Technical Improvement, Supply, Accounts Payable, Payroll and Commercial

Productivity - BCM Movement/man/year



Productivity - Product tonnes/man/year



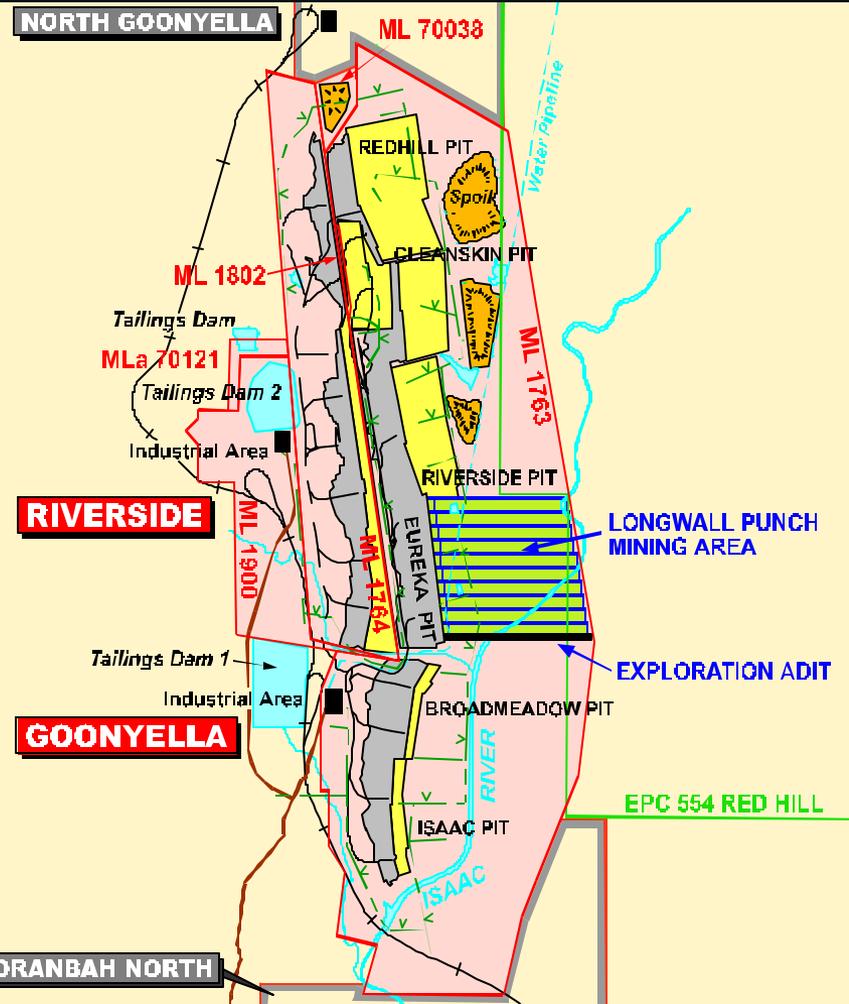
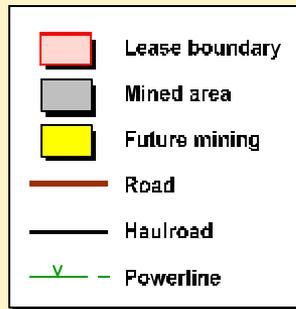
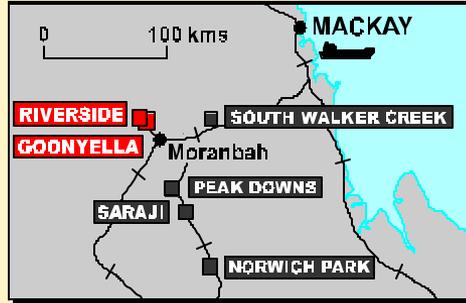
Outlook

- Goonyella Riverside has extensive reserves of GUS, GMS and GLS, which will enable production of Goonyella and Riverside products to continue well into the future (at least 60 years of mine life at current output)
- We are addressing the major issue facing Goonyella Riverside - the increasing depth of the coal seams as we progress down dip:
 - Equipment is being upgraded to increase efficiency
 - Two larger P&H 4100XPB shovels have been commissioned
 - larger (305t) rear dump trucks commenced operating in Jan 2002
 - shovel/crusher/conveyor system operating from May 2002
 - coal mining excavators are being replaced by 50% larger units
 - Mine plans are continually optimised; including development of Airstrip Pit, and feasibility of double seam extension
 - A program of continuous improvement (Operating Excellence) is in place to increase mine efficiencies and reduce costs
 - An underground feasibility study currently underway

LONGWALL AREA LOCATION



BHP Billiton Mitsubishi Alliance



Date of 04/1999

PUNCH LONGWALL SCHEMATIC



BHP Billiton Mitsubishi Alliance

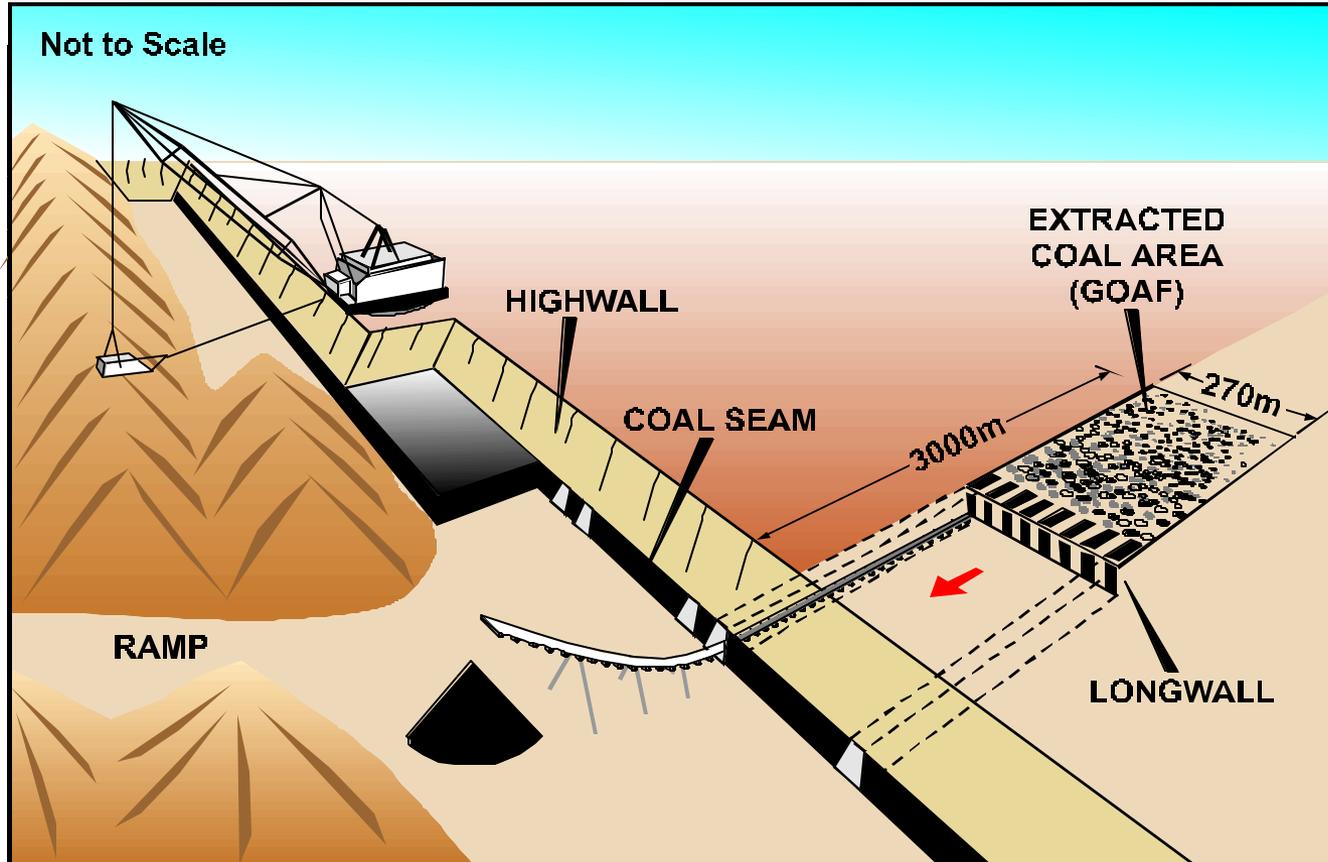


Figure 1: PUNCH LONGWALL MINING

FIG-BM 3211-01