



CCI/5420/87

ANALYSIS &
TESTING OF
BLACKWOOD
COLLIERY SAMPLES

B1 to B15



March 1987

This Laboratory is registered by the National Association of Testing Authorities Australia. The test(s) herein have been performed in accordance with its terms of registration and in accordance with the following standards:-

Methods for the Sampling of Hard Coal	AS2646 - 2	(1984)
	AS2646 - 4	(1984)
	AS2646 - 6	(1984)
	AS2646 - 8	(1984)
Float & Sink Testing of Hard Coal	AS1661	(1979)
Size Analysis of Coal	ASDR84043	
Total Moisture in Hard Coal	AS1038 - 1	(1980)
Proximate Analysis of Hard Coal	AS1038 - 3	(1979)
Gross Specific Energy of Coal	AS1038 - 5	(1979)
Ultimate Analysis of Higher Rank Coal		
- Carbon and Hydrogen	AS1038 - 6.1	(1986)
- Nitrogen	AS1038 - 6.2	(1986)
- Total Sulphur (High Temp. Combustion) (designated (A) on test report)	AS1038 - 6.3.2	(1986)
- Total Sulphur (Leco Infra Red) (designated (B) on test report)	AS1038 - 6.3.3	(1986)
Chlorine in Coal	AS1038 - 8	(1980)
Forms of Sulphur in Coal	AS1038 - 11	(1982)
Crucible Swelling Number	AS1038 - 12.1	(1979)
Gray King Coke Type	AS1038 - 12.2	(1979)
Dilatometer (Air - Core Furnace)	AS1038 - 12.3	(1984)
	ISO 349	(1975)
Analysis of Coal Ash and Coke Ash (Acid Digestion - Flame AAS Method)	AS1038 - 14.2	(1985)
Gieseler Plastometer	AS2137	(1981)
Fusibility of Coal & Coke Ash	AS1038 - 15	(1972)
Hardgrove Grindability Index of Hard Coal () Represents Mass% -1.18 + 0.600mm material	AS1038 - 20	(1981)
Apparent Relative Density of Hard Coal	AS1038 - 21	(1983)
Relative Density of Hard Coal (Density Bottle Method)	AS1038 - 21	(1983)
Carbonate Carbon of Higher Rank Coal	AS1038 - 23	(1984)
Total Fluorine in Coal (Oxygen Bomb Combustion/Ion Selective Electrode)	D3761	(1984)

ORIGIN: Department of Mines Tasmania JOB NO. 5420
 DESCRIPTION: Blackwood Colliery DATE REC'D 5/2/87
Samples B1-B15 DATE TESTED 19/2/87
 REPORTED TO: Mr H Murchie C.C. Ms C Bacon

<u>SECTION</u>	<u>DESCRIPTION</u>	<u>LENGTH (m)</u>	<u>MASS (kg)</u>	<u>ARD</u>	<u>ASH (% ad)</u>
B1	COAL	0.130	1.556	1.43	25.9
B2	BAND	0.080	1.018	2.16	80.2
B3	COAL	0.280	5.156	1.39	18.6
B4	BAND	0.100	1.178	2.06	80.5
B5	COAL	0.370	9.200	1.43	29.1
B6	BAND	0.150	1.554	2.10	81.3
B7	COAL	0.170	2.244	1.37	20.9
B8	BAND	0.020	0.280	2.03	81.8
B9	COAL	0.160	1.506	1.36	21.0
B10	BAND	0.020	0.290	1.92	68.2
B11	COAL	0.080	0.540	1.32	19.2
B12	BAND	0.010	0.178	2.12	72.7
B13	COAL	0.160	3.454	1.27	14.0
B14	BAND	0.010	0.112	1.96	67.4
B15	COAL	0.800	16.228	1.31	15.2



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REPORTED BY

[Signature]

DATE

20/3/87

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ANALYSIS REPORT

Description: B1-15 Comp. Raw B1-15 Comp. Fl.70 B1-15 Comp. Sl.70

SAMPLE NO. - 77.4% 22.6%

19169 19167 19168

Relative Density		19185		19187		19188	
Total Moisture (as)		%					
Moisture (ad)		%		5.8		4.3	
ANALYSIS BASIS				ad		ad	
Ash		%		32.7		18.1	
Volatile Matter		%		22.7		27.9	
Fixed Carbon		%		38.8		49.7	
Total Sulphur		B %		0.35		0.39	
Chlorine		%					
Phosphorus		%					
Specific Energy		MJ/kg		19.46		24.96	
Carbon		%					
Hydrogen		%					
Nitrogen		%					
Carbon Dioxide		%					
DRY, ASH-FREE BASIS							
Volatile Matter		%		36.9		36.0	
Specific Energy		MJ/kg		31.64		32.16	
Carbon		%					
Hydrogen		%					
Nitrogen		%					
Sulphur		%					
Oxygen (diff)		%					
Crucible Swelling Number							
Gray-King Coke Type							
Hardgrove Grindability Index							
ASH FUSION TEMPERATURES (reducing atmosphere)							
Deformation		°C					
Spherical		°C					
Hemisphere		°C					
Flow		°C					



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DATE 20/3/87