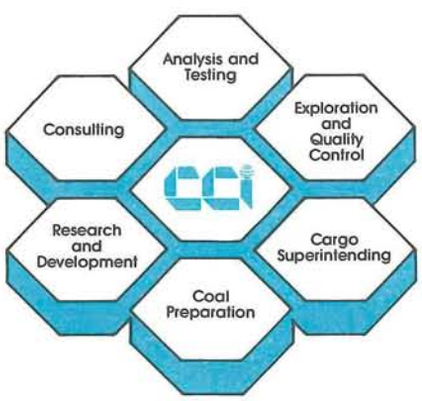
GCR1987/02

CARBON CONSULTING INTERNATIONAL PTY. LTD.

CCI/5419/87

ANALYSIS & TESTING OF DUNCAN COLLIERY CHANNEL SAMPLES

D2–1 TO D2–10
D3–1 TO D3–5



March 1987

CARBON CONSULTING INTERNATIONAL PTY. LTD.
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INCORPORATED IN NEW SOUTH WALES

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)

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ORIGIN: Department of Mines Tasmania
JOB NO. 5419

DESCRIPTION: Duncan Colliery
DATE REC'D 5/2/87

Channel Samples
DATE TESTED 19/2/87

REPORTED TO: Mr H Murchle
c.c. Ms C Bacon

SECTION	DESCRIPTION	LENGTH (m)	MASS (kg)	ARD
D2-1	COAL	0.060	1.092	1.70
D2-2	BAND	0.010	0.028	2.13*
D2-3	COAL	0.220	1.488	1.46
D2-4	BAND	0.050	0.814	1.80
D2-5	COAL	0.070	1.868	1.54
D2-6	BAND	0.010	0.080	2.00
D2-7	COAL	1.200	13.995	1.37
D2-8	BRIGHT COAL	0.020	0.042	1.22
D2-9	COAL	0.500	1.792	1.35
D2-10	COAL	0.050	0.336	1.62

* Relative Density - insufficient sample for apparent relative density

NATA
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ORIGIN: Department of Mines Tasmania
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Channel Samples
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REPORTED TO: Mr H Murchie
c.c. Ms C Bacon

SECTION	DESCRIPTION	LENGTH (m)	MASS (kg)	ARD
D3-1	COAL	0.020	0.384	2.03
D3-2	COAL	0.470	2.020	1.32
D3-3	BAND	0.080	0.798	2.30
D3-4	COAL	0.360	2.810	1.35
D3-5	BAND	0.030	2.174	1.58

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ANALYSIS REPORT

Description:		Composite D2 - 1 to D2 - 10	Composite D3 - 1 to D3 -5
SAMPLE NO.		19175	19181
Relative Density			
Total Moisture (as)	%		
Moisture (ad)	%	6.1	5.2
ANALYSIS BASIS		ad	ad
Ash	%	25.3	19.3
Volatile Matter	%	22.1	28.0
Fixed Carbon	%	46.5	47.5
Total Sulphur B	%	0.31	0.43
Chlorine	%		
Phosphorus	%		
Specific Energy	MJ/kg	22.52	25.36
Carbon	%		
Hydrogen	%		
Nitrogen	%		
Carbon Dioxide	%		
DRY, ASH-FREE BASIS			
Volatile Matter	%	32.2	37.1
Specific Energy	MJ/kg%	32.82	33.58
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		
How	°C		

REPORTED BY [signature]

DATE 20/3/87.

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