

# ACCREDITATION NO: 15784

## ACIRL Quality Testing Services Pty Ltd

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FACILITIES: Public testing service

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**This facility complies with the requirements of ISO/IEC 17025:2005**

### 7.16 Fuels

.03 Coals and coke  
by the methods of -

AS 1038 1 (2001) - Total moisture - higher rank coal (Method B)

AS 1038 3 (2000) - Proximate analysis of higher rank coal

AS 1038 5 (1998) - Gross calorific value (Isothermal)

AS 1038 6.3.3 - Total sulfur by Infra-red - higher rank coal

AS 1038 8.1 - Chlorine by Eschka method

AS 1038 16 - Assessment and reporting of results

AS 1038 17 - Moisture holding capacity - higher rank coal

AS 1038 20 - Hardgrove grindability index - higher rank coal

AS 1038 21.1.1 - Relative density (density bottle method) - higher rank coal and coke

AS 2434 1 - Total moisture - Lower rank coals

AS 2434 2 - Volatile matter - Lower rank coals

AS 2434 3 - Moisture holding capacity - Lower rank coals

AS 3881-(2002) - Size analysis

AS 3899 - Bulk Density

ISO 562 - Volatile matter

ISO 587 - Chlorine (Eschka method)

ISO 589 - Total Moisture

ISO 1171 - Ash

ISO 1928 - Gross calorific value

ISO 1953 - Size analysis

ISO 5074 - Hardgrove grindability index

ISO 11722 - Moisture

ISO 17246 - Proximate analysis

ISO 19579 - Sulfur

In-house method CBM 269 - Fly Ash Moisture

In-house method CBM 270 - Loss on ignition

In-house method CBM L003c - Rapid ash

.71 Sampling  
By the methods of -  
AS 4264.1 - Sampling procedures - coal

ISO 13909 1 - Mechanical sampling - coal  
ISO 13909 2 - Sampling from steams - coal  
ISO 13909 3 - Sampling from stationary lots - coal  
ISO 13909 4 - Preparation of test samples - coal

#### **7.66 Waters**

listed as determination(s) by technique(s) using method(s) -  
Acidity by classical using APHA 2310 B  
Alkalinity by classical using APHA 2320 B  
Chloride by classical using APHA 4500-Cl- B  
Conductivity by classical using APHA 2510 B  
Dissolved oxygen by classical using APHA 4500-O C, APHA 4500-O G  
Elements as listed under 7.84.01 by AAS (flame, vapour generation)  
Nutrients as listed under 7.84.51 by UV-vis spectrophotometric  
Oil and grease by classical using APHA 5520 B  
pH by classical using APHA 4500H+ B  
Solids - dissolved by classical using APHA 2540 C and in-house CBM E007  
Solids - suspended by classical using APHA 2540 D  
Solids - total by classical using APHA 2540 B  
Sulfate by gravimetric and UV-vis using APHA 4500SO4-2 C and E  
Turbidity by classical using APHA 2130 B

.01 Waters for potable and domestic purposes  
.02 Waters for irrigation and stock  
.05 Trade wastes  
.07 Ground waters  
.71 Sampling  
Sampling for chemical analytes only in surface and bore waters using in-house methods CL120 and CL121

#### **7.84 Residues and contaminants in constituents of the environment**

.01 Elements  
listed as determination(s) by technique(s) using method(s) -  
Aluminium; barium; calcium; copper; iron; lead; magnesium; manganese; nickel;  
potassium; silicon; sodium; strontium and zinc by AAS (flame, vapour generation)  
using APHA 3111B and D  
.51 Nutrients  
listed as determination(s) by technique(s) using method(s) -  
Nitrate by UV-vis using APHA 1971 133A  
Phosphate by UV-vis using APHA 4500-P E