


Schedule to <b>CERTIFICATE OF ACCREDITATION</b>	
Central Environmental Laboratories	<b>Client Number 28</b>
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<b>Telephone 06 351-4475</b> <b>Fax 06 353-8519</b>	<b>www.cenlab.co.nz</b>
<b>Authorised Representative</b> Ms Rebecca Demchick Senior Analyst, Microbiology	
<b>Programme</b> Chemical Testing Laboratory	
<b>Accreditation Number 72</b>	<b>Initial Accreditation Date 6 October 1977</b>
<b>Conformance Standard</b> NZS ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories	
<b>Testing Services Summary</b>	
<b>General Waters</b> 2.41 Waters	
<b>Sampling</b> 2.41 Waters	
<b>Key Technical Personnel</b>	
<b>General Waters</b>	
Mr Johan Bosch	2.41
Mr Pete Brown	2.41; selected
<b>Sampling</b>	
Mr Johan Bosch	2.41
Ms Rebecca Demchick	2.41

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Central Environmental Laboratories  
 Chemical Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation Number 72

**General Waters**

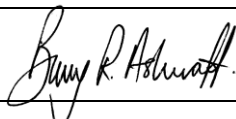
**2.41 Waters**

- (a) Potable waters**
- (b) Non-potable waters**
- (c) Sewage**
- (d) Effluents and trade wastes**
- (f) Swimming pools and spas**

The following tests are in accordance with APHA Standard Methods for the Examination of Water and Wastewater (22<sup>nd</sup> Edition) except where otherwise indicated.

Alkalinity	2320 B
Bicarbonate	By calculation
Biological Oxygen Demand	5210 B
Boron	Analyst 105 (Feb 1980) 139 – 146
Bromide	4110 B
Calcium	3500-Ca B
Calcium Carbonate Saturation	2330 D
Calcium hardness	3500-Ca B
Chemical Oxygen Demand (COD)	5220 C
Chloride	4500-Cl <sup>-</sup> B
Chloride	4110 B
Chlorine (residual)	4500-Cl F
Colour	2120 B
Colour	2120 C
Conductivity	2510 B
Dissolved Oxygen	4500-O C
Dissolved Oxygen	4500-O F
Dissolved Oxygen	4500-O G
Fixed and Volatile suspended solids	2540 E
Fluoride	4110 B
Free Carbon Dioxide	4500-CO <sub>2</sub> C
Langelier saturation index	By calculation
Nitrate	4110 B
Nitrite	4110 B
Nitrogen (Ammonia)	4500-NH <sub>3</sub> F (modified)
Nitrogen (Nitrite)	4500-NO <sub>2</sub> <sup>-</sup> B
Oil Grease	5520 D
pH	4500-H <sup>+</sup> B
Phosphate	4110 B
Phosphorus	4500-P E
Silica	4500-SiO <sub>2</sub> C
Sulphate	4110 B
Sulphide	4500-S <sup>2-</sup>

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Suspended solids	2540 D
Temperature	2550 B
Total Alkalinity	By calculation
Total dissolved solids	2540 C (modified)
Total hardness	2340 B
Total hardness (as CaCO <sub>3</sub> )	2340 C
Total Kjeldahl Nitrogen (TKN) equivalent	By calculation
Total Nitrogen	4500-P J
Total Phosphorus	4500-P J
Total solids	2540 B
Transmittance at 254 nm	5910 B
Transmittance at 254 nm	Laboratory Manual for the Examination of Water, Wastewater and Soil, 3rd Ed. Rump 2130 B (modified)
Turbidity	

In accordance with 3111 B:

Cadmium	Chromium	Copper	Iron
Manganese	Nickel	Potassium	Sodium
Zinc			

In accordance with 3111 D:

Aluminium	Calcium	Magnesium
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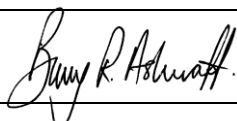
**Sampling**

**2.41 Waters**

- (a) Potable waters
- (b) Non-potable waters
- (c) Sewage
- (d) Effluents and trade wastes
- (e) Cooling tower and industrial waters

Sampling by In-house based on AS/NZS 5667.1-12:1998

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