



Central Environmental Laboratories

Client Number 28

PO Box 8017, Hokowhitu, Palmerston North, 4446
 Module 2, Batchelar Agricultural Centre, Batchelar Road, Palmerston North, 4474

Telephone 06 351-4475

www.cenlab.co.nz

Authorised Representative

Mr Johan Bosch
 Principal Analyst

Programme

Chemical Testing Laboratory

Accreditation Number 72

Initial Accreditation Date 6 October 1977

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

General Waters

2.41 Waters

Sampling

2.41 Waters


Key Technical Personnel

General Waters

Mr Johan Bosch	2.41
Ms Carrie-Ann Leighton	2.41; selected
Ms Nishani Thennakoon	2.41; selected

Sampling

Mr Johan Bosch	2.41
Ms Carol Kellett	2.41

Operations Manager Authorisation:		Issue 48	Date:31/03/21	Page 1 of 4
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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 (23rd 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 ⁻ 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 ₂ C
Langelier saturation index	By calculation
Nitrate	4110 B
Nitrite	4110 B
Nitrogen (Ammonia)	4500-NH ₃ F (modified)
Nitrogen (Nitrite)	4500-NO ₂ ⁻ B
Oil Grease	5520 D
pH	4500-H ⁺ B
Phosphate	4110 B
Phosphorus	4500-P E
Silica	4500-SiO ₂ C
Sulphate	4110 B

Operations Manager Authorisation:		Issue 48	Date:31/03/21	Page 2 of 4
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Central Environmental Laboratories
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Accreditation Number 72

SCOPE OF ACCREDITATION

Sulphide	4500-S ²⁻ F
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 ₃)	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 & Soil, 3 rd Ed. Rump
Turbidity	2130 B (modified)

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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2.41 Waters

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

Analysis of the following elements by APHA 3030 E with ICP-MS APHA 3125 B:

Aluminium	Arsenic	Barium	Boron
Cadmium	Calcium	Chromium	Cobalt
Copper	Iron	Lead	Lithium
Magnesium	Manganese	Molybdenum	Nickel
Potassium	Selenium	Sodium	Uranium
Zinc			

Operations Manager Authorisation:		Issue 48	Date:31/03/21	Page 3 of 4
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Chemical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 72

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

Operations Manager Authorisation:		Issue 48	Date:31/03/21	Page 4 of 4
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