

CERTIFICATE OF ACCREDITATION



ALS Food and Environmental NZ
Hamilton

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Authorised Representative

Ms Maya Hasegawa
Quality Manager

Programme

Drinking Water Testing Laboratory

Accreditation Number 1303

Initial Accreditation Date 29 May 2018

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories
Water Services (Drinking Water Standards for New Zealand) Regulations 2022

Laboratory Services Summary

Microbiology

1.12 Waters (Microbiology)

Chemical

2.41 Waters (Chemistry)

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SCOPE OF ACCREDITATION

Accreditation Number 1303

Analysis

The following scope of accreditation provides for the testing of potable waters for the purposes of assessing compliance with the Water Services (Drinking Water Standards for New Zealand) Regulations 2022, the Aesthetics Values for Drinking Water Notice 2022 in accordance with the Taumata Arowai publications Requirements Relating to Laboratories 2021 and the Drinking Water Quality Assurance Rules 2022.

1.12 Waters (Microbiology)

(a) Potable waters

In accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (Online Edition) except where otherwise indicated

Determinand	Method Reference
<i>E. coli</i>	9222 H
<i>E. coli</i> – Colilert-18 Quantitray (51 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (97 well)	9223 B
Faecal coliforms – MF	9222 D
Total coliforms – Colilert-18 Quantitray (51 well)	9223 B
Total coliforms – Colilert-18 Quantitray (97 well)	9223 B
Total coliforms – MF	9222 B

2.41 Waters (Chemistry)

(a) Potable waters

INORGANIC DETERMINANDS

In accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (Online Edition) except where otherwise indicated

Determinand	Method Reference
Antimony	EPA 200.8 (modified)
Arsenic	EPA 200.8 (modified)
Barium	EPA 200.8 (modified)
Boron	EPA 200.8 (modified)
Bromate	EPA 300.1 (modified)
Cadmium	EPA 200.8 (modified)
Chlorate	EPA 300.1 (modified)
Chlorite	EPA 300.1 (modified)
Chromium	EPA 200.8 (modified)
Copper	EPA 200.8 (modified)

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Cyanide (total and WAD)	In-house by Segmented Flow Analysis
Fluoride	4500-F ⁻ C (modified)
Lead	EPA 200.8 (modified)
Manganese	EPA 200.8 (modified)
Mercury	EPA 200.8 (modified)
Molybdenum	EPA 200.8 (modified)
Nickel	EPA 200.8 (modified)
Nitrate	4500-NO ₃ ⁻ I
Nitrite	4500-NO ₃ ⁻ I
Nitrite	4500-NO ₂ ⁻ B
Selenium	EPA 200.8 (modified)
Uranium	EPA 200.8 (modified)

ORGANIC DETERMINANDS

In accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (Online Edition) except where otherwise indicated

Determinand	Method Reference
Aldrin/Dieldrin	In-house
Alachlor	In-house
Aldicarb	In-house
Atrazine	In-house
Azinphos methyl	In-house
Benzene	In-house USEPA 5021
Benzo(a)pyrene	In-house USEPA 8270
Bromodichloromethane	In-house USEPA 5021
Bromodichloromethane	In-house
Bromacil	In-house
Bromoform	In-house USEPA 5021
Bromoform	In-house
1,2-Dibromoethane	In-house USEPA 5021
Dibromochloromethane	In-house USEPA 5021
1,2-Dibromo-3-chloropropane	In-house USEPA 5021
1,2-Dibromo-3-chloropropane	In-house
Carbofuran	In-house
Carbon tetrachloride	In-house USEPA 5021
Carbon tetrachloride	In-house
Chlordane	In-house
Chlorotoluron	In-house
1,2-Dichlorobenzene	In-house USEPA 5021
1,2-Dichloroethane	In-house USEPA 5021
1,2-Dichloroethene	In-house USEPA 5021
Chloroform	In-house USEPA 5021
Chloroform	In-house
Chlorpyrifos	In-house

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Cyanazine	In-house
Dibromoacetonitrile	In-house
Dibromochloromethane	In-house
Dichloroacetonitrile	In-house
1,4-Dichlorobenzene	In-house USEPA 5021
Dichloromethane	In-house USEPA 5021
1,2-Dichloropropane	In-house USEPA 5021
1,3-Dichloropropene	In-house USEPA 5021
2,4-D	In-house
2,4-DB	In-house
Dichloroprop	In-house
2,4,6-Trichlorophenol	In-house USEPA 8270
DDT and isomers	In-house
Di(2-ethylhexyl)phthalate	In-house USEPA 8270
Dimethoate	In-house
Diuron	In-house
Endrin	In-house
Epichlorohydrin	In-house
Ethylbenzene	In-house USEPA 5021
Fenoprop	In-house
Hexachlorobutadiene	In-house USEPA 5021
Hexazinone	In-house
Isoproturon	In-house
Lindane	In-house
MCPA	In-house
Metalaxyl	In-house
Mecoprop	In-house
Methoxychlor	In-house
Metolachlor	In-house
Metribuzin	In-house
Molinate	In-house
Oryzalin	In-house
Pentachlorophenol	In-house
Pendimethalin	In-house
Picloram	In-house
Pirimiphos methyl	In-house
Primisulfuron methyl	In-house
Procymidone	In-house
Propazine	In-house
Pyriproxifen	In-house
Simazine	In-house
Styrene	In-house USEPA 5021
2,4,5-T	In-house
Terbutylazine	In-house
Tetrachloroethene	In-house USEPA 5021
Tetrachloroethene	In-house
Thiabendazole	In-house

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Toluene	In-house USEPA 5021
Trichloroethene	In-house USEPA 5021
Trichloroethene	In-house
Triclopyr	In-house
Trihalomethanes (sum of ratios of TMH)	In-house USEPA 5021
Vinyl chloride	In-house USEPA 5021
Xylenes	In-house USEPA 5021

AESTHETIC DETERMINANDS

In accordance with APHA Standard Methods for the Examination of Water and Wastewater (Online Edition) except where otherwise indicated

Determinand	Method Reference
Aluminium	EPA 200.8 (modified)
Ammonia	4500-NH ₃ H FIA
Calcium	EPA 200.8 (modified)
Chloride	APHA 4110 B
2-Chlorophenol	In-house USEPA 8270
2,4-Dichlorophenol	In-house USEPA 8270
Hardness (total)	APHA 2340 B
Hydrogen sulphide	4500-S ²⁻ I (modified)
Iron	EPA 200.8 (modified)
Magnesium	EPA 200.8 (modified)
Monochlorobenzene	In-house USEPA 5021 HSGCMS
pH	4500-H ⁺ B
Sodium	EPA 200.8 (modified)
Sulphate	APHA 4110 B
Total dissolved solids	APHA 2540 C
Trichlorobenzenes	In-house USEPA 5021 HSGCMS
1,2,3-Trichlorobenzene	In-house USEPA 5021 HSGCMS
1,2,4-Trichlorobenzene	In-house USEPA 5021 HSGCMS
1,3,5-Trichlorobenzene	In-house USEPA 5021 HSGCMS
Turbidity	2130 B (modified)
Zinc	EPA 200.8 (modified)

References:

APHA American Public Health Association

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