Schedule to

CERTIFICATE OF ACCREDITATION



Client Number 590

RJ Hill Laboratories Ltd (Hill Labs)

Hamilton

Private Bag 3205, Waikato Mail Centre, Hamilton, 3240 28 Duke St, Frankton, Hamilton, 3204

Telephone 0508 445-5522 www.hill-labs.co.nz

Authorised Representative

Ms Leisle Jacobsen

Quality Manager/Lead Auditor

Programme

Chemical Testing Laboratory

Accreditation Number 365 Initial Accreditation Date 15 April 1988

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

Plants and Soils

2.36 Agricultural Products and Agricultural Materials

Inorganics

2.31	Foods
2.41	Waters

2.58 Environmental Monitoring

ICP

2.31 Foods

2.32 Drugs and Pharmaceuticals

2.41 Waters

2.58 Environmental Monitoring
2.61 Biological Specimens
2.70 Instrumental Techniques

Organics

2.31	Foods
2.41	Waters

2.58 Environmental Monitoring2.70 Instrumental Techniques

Operations Manager Authorisation:

150pto-

Issue 171

Date:16/04/24

Page 1 of 28

Schedule to







Food and Bioanalytical

2.31 Foods

2.32 Drugs and Pharmaceuticals

2.36 Agricultural Products and Agricultural Materials

2.70 Instrumental Techniques

Work Place Drug Testing

2.61 Biological Specimens

Air Quality

2.58 Environmental Monitoring

Key Technical Personnel

Plants and Soils

Ms Fiona Calvert	2.36
Mrs Lucy Cubitt	2.36
Mrs Shelley Edhouse	2.36
Mr Stephen Haylett-Petty	2.36
Mrs Caroline Hill	2.36
Ms Wendy Homewood	2.36
Ms Chrystal Kelly	2.36
Mr Andrew Whitmore	2.36

Inorganics

Ms Helena Bertram	2.41, 2.58
Mr Mark Bryant	2.31

Mr Graham Corban 2.31, 2.41, 2.58

 Mr Martin Cowell
 2.31, 2.41, 2.58

 Mr Jon Harris
 2.41 (selected), 2.58

 Miss Kim Harrison
 2.41, 2.58

 Miss Ara Heron
 2.31, 2.41, 2.58

 Dr Jane Sherrard
 2.41 (selected), 2.58

Mrs Sukhjeet Singh 2.31

ICP

Ms Helena Bertram 2.41, 2.58 (selected)

Mr Mark Bryant 2.24, 2.31, 2.32, 2.58 (d), 2.61

Mr Graham Corban2.41, 2.58 (selected)Mr Martin Cowell2.41, 2.58 (selected)Mr Jon Harris2.41, 2.58 (selected)Miss Kim Harrison2.41, 2.58 (selected)Miss Ara Heron2.41, 2.58 (selected)

Ms Giselle Jeannes 2.24, 2.31, 2.32, 2.58 (d), 2.61

Dr Jane Sherrard 2.41, 2.58 (selected)

Mrs Sukhjeet Singh 2.24, 2.31, 2.32, 2.41, 2.58, 2.61, 2.70 (i)

Mrs Kim Thomas 2.24, 2.31, 2.32, 2.58 (d), 2.61

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 2 of 28









Organics

Ms Helena Bertram 2.41; 2.58

Mr Alastair Boyd 2.41, 2.58; selected, 2.70 (a1)(a2)(b)(d2)

Mr Mark Bryant

Mr Graham Corban 2.31, 2.41, 2.58 Mr Martin Cowell 2.31, 2.41, 2.58 Miss Kim Harrison 2.41, 2.58 Miss Ara Heron 2.31, 2.41, 2.58 Miss Yu-Hsuan (Coco) Hsueh 2.58; selected

Mrs Sukhjeet Singh 2.31

Food and Bioanalytical

Mr Mark Bryant 2.31 (selected), 2.32 (e), 2.36 (c)

2.31 (selected), 2.32 (i), 2.36 (h)(i), 2.70 (a1)(a2)(b)(d2) Mr Shaun Clay

Dr Gary Depree 2.31 (selected) Mr Stephen Haylett-Petty 2.31 (n)(selected)

Ms Giselle Jeannes 2.31 (selected), 2.36 (c)

2.31 (selected), 2.32 (e)(i), 2.36 (h)(i) Ms Helen McGowan Dr Bruce Morris 2.31 (selected), 2.36 (h)(i), 2.70 (a1)(a2)(a3)

Mr Richard Schriner 2.31 (selected), 2.70 (b)(d2) Mrs Sukhjeet Singh 2.31 (selected), 2.36 (c) Mrs Kim Thomas 2.31 (selected), 2.36 (c) Mr Andrew Whitmore 2.31 (n)(selected)

Work Place Drug Testing

Mr Shaun Clay 2.61 Mr Armin Kiani 2.61 Mrs Freya Turner-Wright 2.61

Air Quality

Mr Graham Corban 2.58

Mr Jon Harris 2.58 (selected)

Miss Ara Heron 2.58

Operations Manager Authorisation: 1 \$10/8tro-

Issue 171

Date:16/04/24

Page 3 of 28

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

Plants and Soils

2.36 Agricultural Products and Agricultural Materials

In accordance with in-house test methods except where otherwise indicated.

(c) Stockfoods and licks

Crude fibre AOAC 962.09 (modified)

(g) Soils

Anion storage capacity

Base saturation percent of calcium
Base saturation percent of magnesium
Base saturation percent of potassium
Base saturation percent of potassium
Base saturation percent of sodium
Base saturation percent of sodium
Cation exchange capacity
By calculation
By calculation
By calculation
By calculation
By calculation

Organic matter Dumas combustion / calculation

pH of soils and soil extracts
Phosphorus (Olsen extractable)
Phosphorus (Resin extractable)

Potentially available nitrogen (anaerobic mineralisable nitrogen)

Soluble salts

Sulphate-sulphurIon chromatographyTotal carbonDumas combustionTotal nitrogenDumas combustion

Volume weight

The following elements in soil in accordance with ICP-OES methodology (including extraction):

Aluminium (CaCl₂ extractable)

Boron (hot water extractable)

Exchangeable Calcium (ammonium acetate extractable)

Exchangeable Magnesium (ammonium acetate extractable)

Exchangeable Potassium (ammonium acetate extractable)

Exchangeable Sodium (ammonium acetate extractable)

Extractable Cobalt (EDTA extractable)

Extractable Copper (EDTA extractable)

Extractable Iron (EDTA extractable)

Extractable Manganese (EDTA extractable)

Extractable Organic Sulphur

Extractable Zinc (EDTA extractable)

Operations Manager Authorisation: 1 HOPETO

Issue 171

Date:16/04/24

Page 4 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) **Chemical Testing Laboratory**

Accreditation Number 365

NFTA 2.1.4 (3hrs @ 105 °C)

SCOPE OF ACCREDITATION

Reserve Potassium (TBK)

Total Phosphorus (Agua Regia digestion)

Total Sulphur (Aqua Regia digestion)

The following elements in soil in accordance with ICP-MS methodology (including extraction):

Total Selenium (Aqua Regia digestion)

(h) **Plants**

Residual moisture

Acid detergent fibre (Direct) Ankom fibre instrument

Acid detergent fibre (Sequential) AFIA method 1.9A (a) (modified) Acid detergent lignin Ankom method 9 (modified)

Ash AOAC 942.05

Chloride Chloride

NIR Crude fat AOCS AM 5-04

Crude protein Dumas combustion / calculation Crude protein (NIR) By calculation

Digestibility Pepsin Cellulase (DOMD) AFIA7R (modified)

AFIA7R (modified) / AFRC calculation Metabolisable Energy (ME) calculated from DOMD

Neutral detergent fibre AFIA Method 1.8A(a) (modified) Nitrate - nitrogen

Residual moisture NIR Soluble sugars Colorimetric method Total nitrogen **Dumas combustion**

Total nitrogen NIR

Total starch (Megazyme) AOAC 996.11 (modified)

The following elements in plants in accordance with ICP-MS methodology:

Cobalt (microwave digestion) Iodine (TMAH extraction)

Molybdenum (microwave digestion) Selenium (microwave digestion)

The following elements in plants in accordance with ICP-OES methodology by microwave digestion:

Aluminium Boron Calcium Copper Magnesium Manganese **Phosphorus** Iron

Potassium Sodium Sulphur Zinc

(i) Other agricultural products and related materials

Nutrient solutions:

Operations Manager 1 \$10/8tro-Date:16/04/24 Page 5 of 28 Issue 171 Authorisation:

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

Ammonium - nitrogen Chloride Conductivity Nitrate - nitrogen pH

The following elements in accordance with ICP-MS methodology:

Molybdenum

The following elements in accordance with ICP-OES methodology:

Boron Calcium Copper Iron

Magnesium Manganese Phosphorus Potassium

Sodium Sulphur Zinc

Growing media (potting mix, composts):

Ammonium - nitrogen Conductivity Nitrate - nitrogen pH

Media DTPA extraction for the following metals by ICP-OES:

Boron Copper Iron Manganese

Zinc

Media water extraction for the following metals by ICP-OES:

Calcium Magnesium Phosphorus Potassium

Sodium Sulphur

References:

AOAC AOAC International (Online)

Inorganics

2.31 Foods

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 6 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

2540 E (modified) (by calculation)

(j) Alcoholic beverages (Wine)

Sulfate in Wine Ion Chromatography (IC) In-House Sulfate as K₂SO₄ By Calculation

2.41 Waters

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

The following tests are in accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (Online Edition) except where otherwise indicated.

Acidity 2310 B

Alkalinity (as CaCO₃) 2320 B (modified)

Ammonium (nitrogen) 4500-NH₃ F (modified, discrete analyser)

Ammonium (nitrogen) 4500-NH₃ H

Ammonium (nitrogen) 4500-NH₃ H (modified)

Ammonium (nitrogen) 4300-1413 11 (modified Ammonium (nitrogen) In-house

Ash

Ash from suspended solids In-house (by calculation)

Bicarbonate 4500-CO₂ D Biochemical oxygen demand 5210 B (modified)

Biochemical oxygen demand 5210 B (modified)
Biochemical oxygen demand In-house

Bromate USEPA 300.1 Part B (modified)
Bromide 4110 B (modified)

Bromide 4110 B (modified)
Bromide USEPA 300.1 (modified)
USEPA 300.1 Part B (modified)

Bromide USEPA 300.1 Part B (modified)
Carbonate 4500-CO₂ D

Chemical oxygen demand 5220 D

Chloramines 4500-CO₂ D

4500-CO₂ D

4500-CO₂ D

Chlorate USEPA 300.1 Part B (modified)

Chloride 4110 B (modified)
Chloride USEPA 300.1 (modified)

Chlorine 4500-Cl G

Chlorite USEPA 300.1 Part B (modified)
Chlorophyll A 10150 (modified)

Chromium (VI) 3500-Cr B (modified, discrete analyser)

Chromium (III) Total In-house (by calculation)

Colour (Hazen) 2120 C (modified)

Conductivity 2510 B

Cyanide (total) 4500-CN C (modified)

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page **7** of **28**

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION	Accreditation Number 365
Cyanide (total)	ISO 14403:2012 (e)
Cyanide	4500-CN E (modified, discrete analyser)
Cyanide (weak acid dissociable)	4500-CN I (modified)
Cyanide (weak acid dissociable)	4500-CN O (modified)
Dissolved Inorganic Nitrogen	In-house (by calculation)
Dissolved Organic Carbon	5310 C (modified) (by calculation)
Dissolved reactive phosphorus	4500-P G
Dissolved reactive phosphorus	4500-P G (modified)
Fluoride (potable water only)	4110 B (modified)
Fluoride (potable water only)	USEPA 300.1 (modified)
Fluoride	4500-F C
Free carbon dioxide	4500-CO ₂ D
Hardness	2340 B
Hydroxide Alkalinity from Alkalinity	2320 B (by calculation)
Hydroxide Alkalinity from pH	4500-CO2 D (by calculation)
Ion Balance	1030 E
Langelier saturation index (LSI)	2330 B
Mercury	USEPA 245.7 (CVAF)
Nitrate	4110 B (modified)
Nitrate	USEPA 300.1 (modified)
Nitrate (nitrogen)	4500-NO ₃ I (modified)
Nitrite	USEPA 300.1 (modified)
Nitrite (nitrogen)	4110 B (modified)
Nitrite (nitrogen)	4500-NO ₃ I (modified)
Oil and Grease	5520 D (modified)
pH	4500-H B (modified)
Phenols	5530 B (modified)
Phenols	5530 D (Auto analyser)
Phosphate	4110 B (modified)
Phosphate	USEPA 300.1 (modified)

Reactive silica 4500-SiO_2 F (modified, discrete analyser) Ryznar index (RI) In-house Sulphate 4110 B (modified) USEPA 300.1 (modified) Sulphide 4500-S^2 I (modified, FIA) Sulphide 4500-S^2 E (modified)

Tannins and lignins

Sulphite

Phosphate from DRP

Reactive silica

Total and nonpurgeable organic carbon

Total dissolved nitrogen Total dissolved solids Total inorganic nitrogen Total Kjeldahl nitrogen Total Kjeldahl nitrogen 4500-S2 E (modified) 4500-S0₃ B 5550 B (modified) 5310 C (modified) In-house (by calculation) 2540 C (modified) In-house (by calculation)

In-house (by calculation) 4500-SiO₂ F (modified)

4500-N_{org} D (modified, discrete analyser)

4500-N_{org} D (modified)

4500-N Č

Operations Manager Authorisation:

Total nitrogen

150pto-

Issue 171

Date:16/04/24

Page 8 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory

Accreditation Number 365

SCOPE OF ACCREDITATION

Total nitrogen
Total nitrogen

Total organic nitrogen

Total organic nitrogen (trace level)

Total phosphorus Total phosphorus Total solids

Total suspended solids

Turbidity Turbidity

Ultraviolet absorption

Unionised hydrogen sulphide

Urea (nitrogen)
Volatile fatty acids
Volatile fatty acids (total)
Volatile suspended solids

Volatile total solids

4500-NO₃ I (modified)

In-house (by calculation)
In-house (by calculation)

In-house (by calculation)

4500-P B / E (modified, discrete analyser)

4500-P H (modified) 2540 B (modified) 2540 D (modified) 2130 B (modified)

ISO 7027:1999 (modified)

5910 B

4500-S2 H (modified) (by calculation)

In-house In-house by IC

In-house (by calculation)

2540 E (modified) 2540 E (modified)

(g) Marine waters

Ammonium (nitrogen)

Ash from suspended solids

Chlorophyll A Conductivity

Dissolved Inorganic Nitrogen
Dissolved reactive phosphorus

Hydroxide Alkalinity from pH

Nitrate (nitrogen)
Nitrite (nitrogen)

рΗ

Phosphate from DRP

Reactive silica

Total inorganic nitrogen

Total nitrogen

Total nitrogen

Total organic nitrogen (trace level)

Total phosphorus
Total suspended solids

Turbidity

4500-NH3 H

2540 E (modified) (by calculation)

In-house (by calculation) 10200 H (modified)

2510 B

In-house (by calculation)

4500-P G

4500-CO2 D (by calculation) 4500-NO3 I (modified) 4500-NO3 I (modified) 4500-H+B (modified) In-house (by calculation)

4500-SiO2 F (modified, discrete analyser)

In-house (by calculation)

4500-N C

4500-NO3 I (modified) In-house (by calculation) 4500-P H (modified) 2540 D (modified)

2130 B (modified)

2.58 Environmental Monitoring

(a) Waters

The following tests are in accordance with APHA "Standard Methods for the Examination of Water

Operations Manager Authorisation:

AGOPTIO

Issue 171

Date:16/04/24

Page 9 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory

SCOPE OF ACCREDITATION

Accreditation Number 365

and Wastewater" (Online Edition) except where otherwise indicated.

Acidity 2310 B

Alkalinity (as CaCO₃) 2320 B (modified)

Ammonium (nitrogen) 4500-NH₃ F (modified, discrete analyser)

Ammonium (nitrogen) 4500-NH₃ H

Ammonium (nitrogen) 4500-NH₃ H (modified)
Ammonium (nitrogen) In-house

nmonium (nitrogen)

Ash 2540 E (modified) (by calculation)
Ash from suspended solids In-house (by calculation)

Bicarbonate 4500-CO₂ D

Biochemical oxygen demand 5210 B (modified)

Biochemical oxygen demand In-house

Bromate USEPA 300.1 Part B (modified)
Bromide 4110 B (modified)
USEPA 300.1 (modified)

Bromide USEPA 300.1 Part B (modified)

Carbonate 4500-CO₂ D Chemical oxygen demand 5220 D

Chloramines 4500-Cl G
Chlorate USEPA 300.1 Part B (modified)

Chloride 4110 B (modified)

Chloride USEPA 300.1 (modified)
Chlorine 4500-CI G

Chlorite USEPA 300.1 Part B (modified)
Chlorophyll A 10200 H (modified)

Chromium (III) Total In-house (by calculation)

Chromium (VI) 3500-Cr B (modified, discrete analyser)

Colour (Hazen) 2120 C (modified)
Conductivity 2510 B

Cyanide (total) 4500-CN C (modified)
Cyanide (total) ISO 14403:2012 (e)

Cyanide 4500-CN E (modified, discrete analyser)

Cyanide (weak acid dissociable)

Cyanide (weak acid dissociable)

4500-CN I (modified)

4500-CN O (modified)

Dissolved Inorganic Nitrogen In-house (by calculation)

Dissolved Organic Carbon 5310 C (modified) (by calculation)
Dissolved reactive phosphorus 4500-P G

Dissolved reactive phosphorus

4500-P G (modified)
Fluoride (potable water only)

4110 B (modified)

Fluoride (potable water only)

USEPA 300.1 (modified)

Fluoride 4500-F C Free carbon dioxide 4500-CO₂ D Hardness 2340 B

Hydroxide Alkalinity from Alkalinity 2320 B (by calculation)

Hydroxide Alkalinity from pH 4500-CO2 D (by calculation) lon Balance 1030 E

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 10 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION	Accreditation Number 365
Langelier saturation index (LSI)	2330 B
Mercury	USEPA 245.7 (CVAF)
Nitrate	4110 B (modified)
Nitrate	USEPA 300.1 (modified)
Nitrate (nitrogen)	4500-NO ₃ I (modified)
Nitrite	USEPA 300.1 (modified)
Nitrite (nitrogen)	4110 B (modified)
Nitrite (nitrogen)	4500-NO ₃ I (modified)
Oil and Grease	5520 D (modified)
pH	4500-H B (modified)
Phenols	5530 B (modified)
Phenols	5530 D (Auto analyser)
Phosphate	4110 B (modified)
Phosphate	USEPA 300.1 (modified)
Phosphate from DRP	In-house (by calculation)
Reactive silica	4500-SiO ₂ F (modified)
Reactive silica	4500-SiO ₂ F (modified, discrete analyser)
Ryznar index (RI)	In-house
Sulphate	4110 B (modified)
Sulphate	USEPA 300.1 (modified)
Sulphide	4500-S ² I (modified, FIA)
Sulphide	4500-S2 E (modified))
Sulphite	4500-S0 ₃ B
Tannins and lignins	5550 B (modified)
Total and nonpurgeable organic carbon	5310 C (modified)
Total dissolved nitrogen	In-house (by calculation)
Total dissolved solids	2540 C (modified)
Total inorganic nitrogen	In-house (by calculation)

Total Kjeldahl nitrogen Total nitrogen Total nitrogen Total nitrogen Total organic nitrogen

Total Kjeldahl nitrogen

Total organic nitrogen (trace level)

Total phosphorus Total phosphorus Total solids

Total suspended solids

Turbidity Turbidity

Ultraviolet absorption

Unionised hydrogen sulphide

Urea (nitrogen)
Volatile Fatty Acids
Volatile Fatty Acids (total)
Volatile suspended solids

4500-NO₃ I (modified)
In-house (by calculation)
In-house (by calculation)
In-house (by calculation)

4500-P B / E (modified, discrete analyser)

4500-N_{org} D (modified, discrete analyser)

4500-P H (modified) 2540 B (modified) 2540 D (modified) 2130 B (modified) ISO 7027:1999 (modified)

4500-Norg D (modified)

-040 B

5910 B

4500-N Č

4500-S₂ H (modified) (by calculation)

In-house In-house by IC

In-house (by calculation) 2540 E (modified)

Operations Manager Authorisation: AGOPTIO

Issue 171

Date:16/04/24

Page **11** of **28**

Schedule to

CERTIFICATE OF ACCREDITATION



Tohu Matatau Aotearoa

RJ Hill Laboratories Ltd (Hill Labs) **Chemical Testing Laboratory** Accreditation Number 365 **SCOPE OF ACCREDITATION**

Volatile total solids 2540 E (modified)

Soils and sludges (c)

Oil and Grease 5520 E (modified)

ICP

- **Textiles and Textile Products** 2.24
- **Chemical tests** (c)
- 2.31 **Foods**
- (c) Nuts, fruits and vegetables and derived products
- **Dairy products** (f)

Microwave Digestion of textiles, food and biological specimens for Elemental Analysis, in accordance with inhouse procedures:

Aluminium Antimony Arsenic Barium Boron Cadmium Caesium Calcium Chromium Cobalt Cerium Copper Dysprosium Erbium Europium Gadolinium Holmium Lanthanum Lead Iron Magnesium Lithium Lutetium Manganese Molybdenum Neodymium Nickel Potassium Praseodymium Rubidium Samarium Selenium Sodium Strontium Thulium Tin Uranium Vanadium Ytterbium Yttrium

Zinc

- Nuts, fruits and vegetables and derived products (c)
- **Dairy products** (f)
- Meat, poultry and derived products (g)
- Eggs and egg products (i)
- Other specified foods (honey, propolis and related products) (o)

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Aluminium Arsenic Barium Antimony

Operations Manager 1\$10/8tro-Issue 171 Date:16/04/24 Page 12 of 28 Authorisation:

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) **Chemical Testing Laboratory**

SCOPE OF ACCREDITATION

Accreditation Number 365

Cadmium Caesium Calcium Boron Cerium Chromium Cobalt Copper Dysprosium Erbium Europium Gadolinium Iron

Holmium Lanthanum Lead

Lithium Lutetium Magnesium Manganese Molybdenum Neodymium Nickel Potassium Praseodymium Rubidium Samarium Selenium Strontium Thulium Sodium Tin

Uranium Vanadium Ytterbium Yttrium

Zinc

Nuts, fruits and vegetables and derived products (c)

The following elements by ICP-MS in accordance with in-house procedures based on APHA 3030 and 3125:

Antimony Arsenic **Bismuth** Cadmium Lead Chromium Copper Mercury Molybdenum Silver Tin Zinc

Dairy products (f)

The following elements by ICP-OES in accordance with in-house procedures based on APHA 3030 and 3120:

Iron Magnesium **Phosphorus** Calcium

Potassium Sodium Sulphur Zinc

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Arsenic **Bismuth** Aluminium **Antimony** Cadmium Chromium Cobalt Boron Copper Iodine Lead Lithium Manganese Molybdenum Nickel Mercurv Selenium Silver Zinc Tin

(g) Meat, poultry and derived products

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Cadmium Mercury Arsenic Lead

Selenium

Operations Manager 1 \$10/8tro-Issue 171 Date:16/04/24 Page 13 of 28 Authorisation:

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

(h) Fish and fish products

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Aluminium Antimony Arsenic **Barium** Beryllium **Bismuth** Boron Cadmium Caesium Chromium Cobalt Copper Lanthanum Lithium Manganese Lead Molybdenum Rubidium Mercury Nickel Selenium Silver Strontium Thallium Tin Uranium Vanadium Zinc

(j) Alcoholic beverages (wine)

The following elements by ICP-MS in accordance with in-house procedures based on APHA 3030 and 3125:

Antimony Arsenic Bismuth Boron Cadmium Chromium Copper Lead Manganese Mercury Nickel Silver

Tin Zinc

The following elements by ICP-OES in accordance with in-house procedures based on APHA 3030 and 3120:

Calcium Iron Potassium Sodium

(o) Other specified foods (honey, propolis and related products)

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Aluminium Antimony Arsenic Cadmium Chromium Copper Iodine Lead

Mercury Selenium Zinc

2.32 Drugs and Pharmaceuticals

(i) Other products – Cannabis (plant and oil)

The following elements by ICP-MS in accordance with in-house procedures based on EU Pharmacopeia 2.4.27:

Arsenic (plant only) Cadmium Lead Mercury

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 14 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

The following element by ICP-MS in accordance with in-house procedures based on alkaline digestion:

Arsenic (oil only*)

*Finished medicinal cannabis and ethanol extracts only

2.41 Waters

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

The following elements by ICP-MS in accordance with APHA 3030 (modified), 3125 and USEPA 1638, 200.1:

Aluminium	Antimony	Arsenic	Barium
Beryllium	Bismuth	Boron	Cadmium
Caesium	Calcium	Chromium	Cobalt
Copper	Iodine	Iron	Lanthanum
Lead	Lithium	Magnesium	Manganese
Mercury	Molybdenum	Nickel	Phosphorus
Potassium	Rubidium	Selenium	Silicon
Silver	Sodium	Strontium	Sulphur
Thallium	Thorium	Tin	Uranium

Vanadium Zinc

The following element by ICP-OES in accordance with APHA 3030 (modified) and 3120:

Sulphur

Borate (B₄O₇) In-house (by calculation)

(g) Marine waters

The following elements by ICP-MS in accordance with APHA 3030 (modified), 3125 and USEPA 1638, 200.1:

Aluminium	Antimony	Arsenic	Barium
Beryllium	Bismuth	Boron	Cadmium
Caesium	Calcium	Chromium	Cobalt
Copper	Iron	Lanthanum	Lead
Lithium	Magnesium	Manganese	Mercury
Molybdenum	Nickel	Phosphorus	Potassium
Rubidium	Selenium	Silica	Silver
Sodium	Strontium	Sulphur	Thallium

Operations Manager Authorisation:	MAOKEO	Issue 171	Date:16/04/24	Page 15 of 28
--------------------------------------	--------	-----------	---------------	-----------------------------

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory

Accreditation Number 365

SCOPE OF ACCREDITATION

Tin Uranium Vanadium Zinc

Borate (B₄O₇) In-house (by calculation)

2.58 Environmental Monitoring

(a) Waters

The following elements by ICP-MS or ICP-OES in accordance with APHA 3030 (modified), 3120, 3125 and USEPA 1638, 200.1:

Detection limits for potable and non-potable water depend in the technique used e.g. ICP-MS or ICP-OES and are available from the laboratory on request.

Aluminium Antimony Arsenic **Barium** Beryllium **Bismuth** Boron Cadmium Caesium Calcium Chromium Cobalt Copper lodine Lanthanum Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel **Phosphorus** Potassium Rubidium Selenium Silicon Sodium Silver Sulphur Strontium Thallium Thorium Tin Uranium

Vanadium Zinc

Borate (B₄O₇) In-house (by calculation)

(c) Soils and sludges

Acid extractable using USEPA 200.2 digestion procedures and TCLP/SPLP USEPA 1311 and 1312 extractable metals by ICP-MS in accordance with APHA 3125:

Detection limits depend on the matrix tested e.g. soils or marine sediments and are available from the laboratory on request.

Aluminium **Antimony** Arsenic **Barium** Bismuth Beryllium Boron Cadmium Calcium Caesium Chromium Cobalt Copper Iron Lanthanum Lead Lithium Magnesium Mercury Manganese Molybdenum Nickel **Phosphorus** Potassium Rubidium Selenium Silver Sodium Strontium Thallium Tin Uranium

Vanadium Zinc

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 16 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

OLEM 9200.2-164, Standard Operating Procedure for an In Vitro Method for the determination of Arsenic and Lead Bioaccessibility (April 20, 2017) / APHA 3125.

(d) Other materials (fish and shellfish)

Detection limits depend on the technique used e.g. ICP-MS or ICP-OES and are available from the laboratory on request.

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Aluminium Antimony Arsenic Barium Bismuth Cadmium Beryllium Boron Caesium Chromium Cobalt Copper Lanthanum Lead Lithium Manganese Mercury Molybdenum Nickel Rubidium Selenium Silver Strontium Thallium Tin Uranium Vanadium Zinc

The following element by ICP-OES in accordance with in-house procedures based on APHA 3030 and 3120:

Calcium Iron Magnesium Potassium

Sodium

2.61 Biological Specimens

(b) Residues in specified veterinary specimens

The following elements by ICP-MS in accordance with in-house procedures based on alkaline digestion or APHA 3030 and 3125:

Aluminium **Antimony** Arsenic Barium Boron Cadmium Caesium Calcium Chromium Cobalt Cerium Copper Dysprosium Erbium Europium Gadolinium Holmium Iron Lanthanum Lead

LithiumLutetiumMagnesiumManganeseMolybdenumNeodymiumNickelPotassiumPraseodymiumRubidiumSamariumSelenium

Sodium Strontium Thulium Tin Uranium Vanadium Ytterbium Yttrium

Zinc

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 17 of 28

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

References:

APHA "Standard Methods for the Examination of Water and Wastewater" (Online Edition) USEPA United States Environmental Protection Agency

2.70 Instrumental Techniques

(i) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)

All techniques pertain to classes of tests 2.24, 2.31, 2.32, 2.41, 2.58, 2.61 as detailed above.

Explanatory Note:

This 2.70 class of test allows specifically approved senior analysts to develop, validate and use a new test method by the specified instrumental technique for a non-routine analysis in the classes of tests specified. The report over the analyst's personal signature may be endorsed with the IANZ Accreditation symbol. Should the method become routine, an IANZ technical assessment is required before the method can appear on the laboratory's scope of routine accredited tests.

Organics

2.31 **Foods**

(j) Alcoholic beverages (Wine)

The following tests in wine in accordance with the requirements of the MPI Wine Notice Requirements for Recognised Agencies and Persons (10 March 2022):

Solvents in Wine (including methanol)

GC-FID/FID In-House

2.41 Waters

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

The following tests are in accordance with validated in-house methods and based upon standard methods where indicated. A full listing of compounds and detection limits are available from the laboratory upon request.

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 18 of 28

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

GC-ECD

Organochlorine pesticides (OCP) Pentachlorophenol (PCP) In-house based on USEPA 8081

GC-FID

Gases in ground water

GC-MS

Amine acid chelating agents (EDTA & NTA) (potable only) Halogenated acetic acids (HAA) (potable only) Halogenated volatile disinfection by-products (HVDB)

(potable only)

In-house based on USEPA 552 In-house based on USEPA 551

Volatile organic compounds (VOC) incl. compound classes:

In-house based on USEPA 8260, 5021

BTEX

- Haloaromatics
- Halogenated aliphatics
- Ketones
- Monocyclic aromatic hydrocarbons
- Trihalomethanes

Semi-volatile organic compounds (SVOC) incl. compound classes:

In-house based on USEPA 8270

- Acid herbicides (AHB)
- Multiresidue pesticides
- Organochlorine pesticides (OCP)
- Polychlorinated biphenyls (PCB)
- Polycyclic aromatic hydrocarbons (PAH)

GC-MS and GC-FID

Total petroleum hydrocarbons (TPH) (covering C6 – C9) In-house based on USEPA 5021 and

8260 (GC-MS Head Space)

Total petroleum hydrocarbons (TPH) (covering C7 – C44) In-house based on USEPA 8015 (GC-FID)

GC-MS/MS

Organochlorine Pesticides In-house based on USEPA 8081, 8270

Polycyclic Aromatic Hydrocarbons (PAH) In-house based on USEPA 8270

LC-MS/MS

Acid Herbicides (including PCP)

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 19 of 28

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

Acrylamide

Formaldehyde

Potable water only

Aldicarb (including Sulfoxide & Sulphone) Isoproturon Oryzalin Oxamyl

Primisulfuron Methyl Thiabendazole

2.58 Environmental Monitoring

(a) Waters

The following tests are in accordance with validated in-house methods and based upon standard methods where indicated. A full listing of compounds and detection limits are available from the laboratory upon request.

GC-ECD

Organochlorine pesticides (OCP) Pentachlorophenol (PCP) In-house based on USEPA 8081

GC-FID

Gases in ground water

GC-MS

Volatile organic compounds (VOC) including:

In-house based on USEPA 5021 and 8260

- BTEX
- Haloaromatics
- Halogenated aliphatics
- Ketones
- Monocyclic aromatic hydrocarbons
- Trihalomethanes

Semi-volatile organic compounds (SVOC) including compound classes:

In-house based on USEPA 8270

- Acid herbicides (AHB)
- Multiresidue pesticides
- Organochlorine pesticides (OCP)
- Polychlorinated biphenyls (PCB)
- Polycyclic aromatic hydrocarbons (PAH)

Operations Manager Authorisation:

1 HOBERO-

Issue 171

Date:16/04/24

Page 20 of 28

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

GC-MS and GC-FID

Total petroleum hydrocarbons (TPH) (covering C6 – C9) In-house based on USEPA 5021 and

8260 (GC-MS Head Space)

Total petroleum hydrocarbons (TPH) (covering C7 – C44)

In-house based on USEPA 8015 (GC-FID)

GC-MS/MS

Organochlorine Pesticides
Polycyclic Aromatic Hydrocarbons (PAH)

In-house based on USEPA 8081, 8270 In-house based on USEPA 8270

LC-MS/MS

Acid Herbicides (including PCP) Acrylamide Formaldehyde

(c) Soils and sludges

The following tests are in accordance with validated in-house methods and based upon standard methods where indicated. A full listing of compounds and detection limits are available from the laboratory upon request.

Extraction and analysis of TCLP/SPLP extractions

GC-ECD

Organochlorine pesticides (OCP)

In-house based on USEPA 8081

GC-FID

Total petroleum hydrocarbons (TPH) In-house based on USEPA 8015

GC-MS

Organonitrogen and Organophosphorus (ON/OP) Pesticides

Volatile organic compounds (VOC) including compound classes:

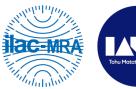
In-house based on USEPA 8260, 5021

- BTEX
- Haloaromatics
- Halogenated aliphatics
- Ketones
- Monocyclic aromatic hydrocarbons
- Trihalomethanes

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 21 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) **Chemical Testing Laboratory SCOPE OF ACCREDITATION**

Accreditation Number 365

Semi-volatile organic compounds (SVOC) including

compound classes:

- Acid herbicides (AHB)
- Multiresidue pesticides
- Organochlorine pesticides (OCP)
- Polychlorinated biphenyls (PCB)
- Polycyclic aromatic hydrocarbons (PAH)

GC-MS/MS

Organochlorine Pesticides Polycyclic Aromatic Hydrocarbons (PAH) In-house based on USEPA 8081, 8270 In-house based on USEPA 8270

In-house based on USEPA 8270

LC-MS/MS

Acid Herbicides (including PCP)

(d) Other materials (Environmental wipes)

LC-MS/MS

Methamphetamine Drug Suite by LC-MS/MS

NIOSH 9111 (modified)

2.70 Instrumental Techniques

- Gas chromatography (2.41, 2.58) (a1)
- Gas chromatography (including Mass Selective Detection (MSD)) (2.41, 2.58) (a2)
- (b) High performance liquid chromatography (including UPLC) (2.41)
- Liquid chromatography- mass spectrometry mass spectrometry (2.41, 2.58) (d2)

All techniques pertain to classes of test shown in parenthesis detailed above.

Explanatory Note:

This 2.70 class of test allows specifically approved senior analysts to develop, validate and use a new test method by the specified instrumental technique for a non-routine analysis in the classes of tests specified. The report over the analyst's personal signature may be endorsed with the IANZ Accreditation symbol. Should the method become routine, an IANZ technical assessment is required before the method can appear on the laboratory's scope of routine accredited tests.

Food and Bioanalytical

Operations Manager 1/10/800 Date:16/04/24 Page 22 of 28 Issue 171 Authorisation:

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) **Chemical Testing Laboratory SCOPE OF ACCREDITATION**

Accreditation Number 365

Foods 2.31

- Cereals and cereal products (a)
- Edible oils, fats and their products (b)
- Nuts, fruits and vegetables and derived products (c)
- Sauces, herbs, spice and condiments (d)
- **Dairy products** (f)
- Meat, poultry and derived products (g)
- Fish and fish products (h)
- (i) Eggs and egg products
- Non-alcoholic beverages (k)
- Other prepared foods (o)

The following tests in selected matrices in accordance with validated in-house methods except where otherwise indicated:

Ash In-house based on AOAC 942.05 In-house based on AOAC 992.15 Crude protein Moisture In-house based on AOAC 945.15 Total nitrogen In-house based on AOAC 992.15

Residues in foodstuffs and crops (n)

In accordance with validated in-house methods in selected matrices by the techniques specified.

GC-MS

Total dithiocarbamates as carbon disulfide p-Dichlorobenzene (pDCB) (honey, propolis, bee's wax)(SPME)

GC-MS/MS

Multi-residue screening by Citrate buffered QUECHERS (fruit, vegetables, crops, wine and derived products, honey, milk)

LC-MS/MS

Acidic herbicides (milk, fruit, vegetables, crops and derived products)

Glyphosate, Glufosinate and AMPA (honey, fruit, vegetables, crops and derived products)

Glyphosate, Glufosinate and Metabolites (honey)

Mycotoxins (grain and grain products, feed)

- Aflatoxins (plus peanuts and derived products, and spices)
- Aflatoxins M1 (milk)
- **Fumonisins**
- Ochratoxin A
- **Trichothecenes**
- Zearalenone

Operations Manager 1/10/8000 Date:16/04/24 Page 23 of 28 Issue 171 Authorisation:

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

Multi-Residue Polar Compounds in Cannabis, oil and derived products

- Chlomequat
- Daminozide

Multi-residue screening by Citrate buffered QUECHERS (fruit, vegetables, wine, crops & derived products, honey, milk)

Polar triazines and their precursors in milk

Streptomycin, Dihydrostreptomycin and Kasugamycin (Kiwifruit)

Tutin (honey: water extraction)
Tutin (honey: acetonitrile extraction)

LC-HRAM-MS

Glucosinolates and SMCO (brassicas)

(o) Other prepared foods

Brix in honey
Colour in honey
Diastase in honey
Electrical Conductivity @ 20 °C in honey
Gluten (ELISA)
Moisture in honey

AOAC 990.35A In-house (spectrophotometer) IHC Method 6.2 (modified) IHC Method 2 (modified) AOAC 2012.01 IHC Method 1 (modified)

uHPLC / UV-Vis

3 in 1 Honey (DHA, HMF and MGO)

- Dihydroxyacetone (DHA)
- 5-hydroxymethylfurfural (HMF)
- Methylglyoxal (MGO)

Non-Peroxide Activity as % Phenol Equivalence by calculation from methylglyoxal concentration

Isotopic Ratio Mass Spectroscopy (IRMS)

C-4 Sugars in honey AOAC 998.12

C-4 Sugars in honey – Screen AOAC 998.12 (modified)

LC-MS/MS

Analysis of the following analytes in New Zealand Manuka Honey by LC-MS/MS in accordance with in-house procedures:

Four Chemical Characterisation (NZ Manuka Honey)

- 2-Methoxyacetophenone (2-MAP)
- 2-Methoxybenzoic acid (2-MBA)

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 24 of 28

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) **Chemical Testing Laboratory**

Accreditation Number 365

SCOPE OF ACCREDITATION

- 3-Phenyllactic acid (3-PA)
- 4-Hydroxyphenyllactic acid (4-HPA)

Leptosperin (NZ Manuka Honey)

References:

AOAC AOAC International (Online)

2.32 **Drugs and Pharmaceuticals**

(e) Hormones and their preparations

Progesterone in powder HPLC (in-house) Progesterone in silicone implants HPLC (in-house)

(i) Other products - Cannabis

Cannabinoids in cannabis LC-MS/MS (in-house)

Agricultural Products and Agricultural Materials 2.36

(c) **Stockfoods**

In-house based on AOAC 942.05 Ash Crude protein In-house based on AOAC 992.15 Moisture In-house based on AOAC 945.15 Total nitrogen In-house based on AOAC 992.15

(h) **Plants**

GC-MS/MS

Multi-residue screening by Citrate buffered QUECHERS

LC-MS/MS

Multi-residue screening by Citrate buffered QUECHERS

Other agricultural products - Agricultural chemicals (i)

Amino alcohols LC-MS/MS (in-house) Quaternary Ammonium Compounds (QAC) LC-MS/MS (in-house)

Operations Manager 1310/8tro-Issue 171 Date:16/04/24 Page 25 of 28 Authorisation:

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

- Benzalkonium chloride
- Didecyldimethylammonium chloride

2.70 Instrumental Techniques

- (a1) Gas chromatography (2.31)
- (a2) Gas chromatography (including Mass Selective Detection (MSD)) (2.31)
- (a3) Gas chromatography (including Mass Selective Mass Selective) (2.31)
- (b) High performance liquid chromatography (including UPLC) (2.31)
- (d2) Liquid chromatography mass spectrometry mass spectrometry (2.31)(2.32)

All techniques pertain to classes of test shown in parenthesis detailed above.

Explanatory Note:

This 2.70 class of test allows specifically approved senior analysts to develop, validate and use a new test method by the specified instrumental technique for a non-routine analysis in the classes of test specified. The report over the analyst's personal signature may be endorsed with the IANZ Accreditation symbol. Should the method become routine, an IANZ technical assessment is required before the method can appear on the laboratory's scope of routine accredited tests.

Work Place Drug Testing

2.61 Biological Specimens

(a) Residues in specified human specimens

In accordance with the general requirements of the Australian/New Zealand Standard AS/NZS 4308:2008 "Procedures for the collection, detection and quantitation of drugs of abuse in urine".

Screening and confirmation of the following drugs of abuse in urine specimens by LC-MS/MS:

Amphetamine Type Substances (ATS)

Amphetamine Ephedrine MDA MDMA

Methamphetamine Phentermine Pseudoephedrine

Opiates and Opioids

6-Monoacetylmorphine Codeine Fentanyl Hydrocodone

(MAM)

Hydromorphone Morphine Oxycodone Oxymorphone

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 26 of 28

Schedule to

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

Tramadol

Cocaine metabolites

Benzoylecgonine Ecgonine Methyl Ester (EME)

Benzodiazepines

Alprazolam* Clonazepam* Diazepam Flunitrazepam* Lorazepam Midazolam* Nitrazepam* Nordiazepam

Oxazepam Temazepam Triazolam*

*The following Benzodiazepine metabolites are analysed and reported:

7-amino-clonazepam 7-amino-flunitrazepam 7-amino-nitrazepam alpha-hydroxy-alprazolam alpha-hydroxy-midazolam alpha-hydroxy-triazolam

Cannabis

THC-COOH

Air Quality

2.58 Environmental Monitoring

(b) Air

A full listing of the compounds and their detection limits are available from the laboratory on request. The laboratory is accredited for analysis only for the methods below.

GC-FID/FID

NIOSH 1403 (charcoal tubes only) (modified) Alcohols IV

NIOSH 1501 (charcoal tubes and badges) (modified) Monocyclic Aromatic Hydrocarbons

HPLC

USEPA TO-11A (modified) (DNPH impregnated silica tubes and badges)
Determination of Formaldehyde in Ambient Air Using Adsorbent Cartridge Followed by High Performance
Liquid Chromatography (HPLC) [Active Sampling Methodology]

Operations Manager Authorisation: Issue 171 Date:16/04/24 Page 27 of 28

Schedule to

CERTIFICATE OF ACCREDITATION





RJ Hill Laboratories Ltd (Hill Labs) Chemical Testing Laboratory SCOPE OF ACCREDITATION

Accreditation Number 365

USEPA TO-11A (modified) (DNPH impregnated silica tubes and badges)

Determination of Acetaldehyde in Ambient Air Using Adsorbent Cartridge Followed by High Performance Liquid Chromatography (HPLC) [Active Sampling Methodology]

USEPA TO-11A (modified) (DNPH impregnated silica tubes and badges)

Determination of Carbonyl compounds in Ambient Air Using Adsorbent Cartridge Followed by High Performance Liquid Chromatography (HPLC) [Active Sampling Methodology]

NIOSH 2016 (modified) (DNPH impregnated silica tubes and badges) Formaldehyde

NIOSH 2532 (modified) (DNPH impregnated silica tubes and badges) Glutaraldehyde

Gravimetric

AS 3640:2009

Gravimetric determination of inhalable dust in workplace atmospheres

AS 2985:2009

Gravimetric determination of respirable dust in workplace atmospheres

AS/NZS 3580.9.3:2015

Determination of suspended particulate matter – Total suspended particulate matter (TSP) – High volume sampler Gravimetric method

AS/NZS 3580.9.6:2015

Determination of suspended particulate matter – PM₁₀ high volume sampler with size selective inlet – Gravimetric method

AS 3580.9.9:2017 (modified)

Determination of suspended particulate PM₁₀ low volume sampler – gravimetric method

AS 3580.9.10:2017 (modified)

Determination of suspended particulate PM_{2.5} low volume sampler – gravimetric method

References:

AS Australian Standard

AS/NZS Australian and New Zealand Standard

NIOSH National Institute for Occupational Safety and Health USEPA United States Environmental Protection Agency

Operations Manager Authorisation:

1 HOBERO-

Issue 171

Date:16/04/24

Page 28 of 28