

Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

Hill Laboratories

Client No: 590

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Authorised Representative:

Ms Gillian Lees
Quality Manager

Programme

NZFSA Laboratory Approval Scheme - Accredited Laboratory

Accreditation Number: 887

Date of Accreditation: 30 January 2004

Conformance Standard

NZS ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories

The following sections of the Laboratory Approval Scheme (Amendment 11)

- 8. APPROVED LABORATORIES
- 8.1 LAS Standards for Laboratories
- 8.2 Accreditation/Assessment
- 8.3 Rights and Duties of Approval Laboratories
- 8.4 Suspension/Revocation of Approval
- 8.5 Laboratory Methods/Tests
- 8.6 Signatories

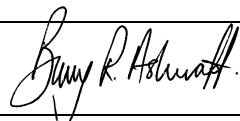
Testing Services Summary

- 5.0 Potable Water Physico-Chemical Parameters
- 8.0 Chemical Residue Testing

Signatories

- | | |
|-------------------|--|
| Mr Graham Corban | 5.01-5.36.3, 5.36.5, 5.36.6, 5.39, 5.40, 5.42-5.46 |
| Miss Ara Heron | 5.01-5.36.3, 5.36.5, 5.36.6, 5.39, 5.40, 5.42-5.46 |
| Dr Peter Robinson | 5.01-5.36.3, 5.36.5, 5.36.6, 5.39, 5.40, 5.42-5.46 |
| Mr Jon Harris | 5.01-5.33, 5.42, 5.44, 5.45, 5.46 |
| Mr Jason Clague | 8.17, 8.18, 8.21 |
| Mr Shaun Clay | 8.17, 8.18, 8.21 |
| Mr Mark Bryant | 8.20 |

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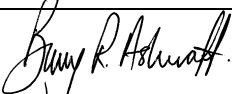
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Mrs Thiru Malar Sritharan

8.20

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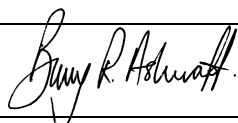
SECTION 1: MEAT & POULTRY INDUSTRY OFFICIAL TESTS

5.0 Potable Water Physico-Chemical Parameters

In accordance with APHA Standard Methods for Examination of Water and Wastewater (21st Edition).

5.01	Colour	2120 B
5.02	Conductivity	2510 B
5.03	pH (hydrogen ion concentration)	4500-H B
5.04	Turbidity	2130 B
5.05	Total hardness	2340 B
5.06	Free carbon dioxide	4500-CO ₂ D
5.07	Alkalinity (as CO ₃)	2320 B (modified)
5.08	Total alkalinity (as HCO ₃)	2320 B (modified)
5.09	Chemical oxygen demand	5220 D
5.10	Ammoniacal nitrogen (ammonium)	4500-NH ₃ F
	Ammoniacal nitrogen (ammonium)	4500-NH ₃ H (modified)
	Ammoniacal nitrogen (ammonium)	Discrete analyser
5.11	Chloride	4500-Cl B
	Chloride	4500-Cl E (modified)
	Chloride	Discrete analyser
	Chloride	4110 B
5.12	Fluoride	4500-F C
	Fluoride	4110 B
5.13	Nitrate	4500-NO ₃ I (modified)
	Nitrate	4110 B
5.14	Nitrite	4500-NO ₂ B
	Nitrite	4500-NO ₃ I (modified)
	Nitrite	4110 B
5.15	Reactive phosphorus	4500-P E (modified)
	Reactive phosphorus	Discrete analyser
	Reactive phosphorus	4500-P G
5.16	Sulphate	4110 B
5.17	Aluminium	3125 B
5.18	Arsenic	3125 B
5.19	Boron	3125 B
5.20	Cadmium	3125 B
5.21	Calcium	3120 B
	Calcium	3125 B
5.22	Chromium	3125 B
5.23	Copper	3125 B
5.24	Cyanide	4500-CN C
	Cyanide	4500-CN E
	Cyanide	4500-CN I (modified)
	Cyanide	4500-CN N (modified)
5.25	Iron	3120 B

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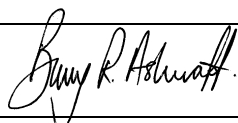
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	Iron	3125 B
5.26	Lead	3125 B
5.27	Magnesium	3120 B
	Magnesium	3125 B
5.28	Manganese	3125 B
5.29	Mercury	3112 B
	Mercury	3125 B
5.30	Potassium	3120 B
	Potassium	3125 B
5.31	Sodium	3120 B
	Sodium	3125 B
5.32	Selenium	3125 B
5.33	Zinc	3120 B
	Zinc	3125 B
5.34	Chlorinated alkanes	EPA 8260 B
5.35	Polycyclic aromatic hydrocarbons (PAH)	EPA 8270 D
5.36	Pesticides	EPA 8270 D
5.36.1	Acid Herbicides	EPA 8151 A (modified)
	<ul style="list-style-type: none"> • 2,4,5-T • 2,4-D • 2,4-DB • Bentazone • Dichlorprop • Fenoprop • MCPA • Mecoprop • Pentachlorophenol • Picloram • Triclorpyr 	
5.36.2	Chlortoluron, diuron, thiabendazole	GC-MSD
5.36.3	Semi Volatile Organic Compounds	EPA, 8270 D; GC-MSD (except where otherwise noted)
	<ul style="list-style-type: none"> • Benzopyrene • Alachor • Aldrin+dielddrin • Atrazine • Azinphos methyl • Bromacil • Carbofuran • Chlordane • Chlorpyrifos • Cyanazine • DDT-isomers • Diazinon • Dimethoate • Endrin 	

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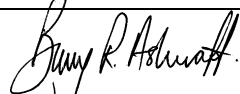
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	<ul style="list-style-type: none"> • Heptachlor and heptachlor epoxide • Hexachlorobezene • Hexazinone • Lindane • Metalaxyl • Methoxychlor • Metachlor • Metribuzin • Oryzalin • Oxadiazon • Pendimethalin • Permethrin • Pirimiphos methyl • Procymidone • Simazine • Terbutylazine • Trifluralin 	LCMS-MS
5.36.5	Diquat	LCMS-MS
5.36.6	Paraquat	LCMS-MS
5.39	Volatile organic compounds (VOC)	EPA 8260 B, SPME-GCMS
	<ul style="list-style-type: none"> • Benzene • 1,2-dichloroethane • Tetrachloroethane and trichloroethane • Tetrachloroethene and trichloroethene • Vinyl chloride • Epichlorohydrin • 1,2-dibromo-3-chloropropane • 1,2-dibromomethane • 1,2-dichloropropane • 1,3-dichloropropane, cis • 1,3-dichloropropane, trans 	
5.40	Trihalomethanes	EPA 8260 B (modified)
5.42	Total organic carbon (TOC)	5310 B (modified)
5.43	Acrylamide	LCMS-MS
5.44	Antimony	ICP-MS
5.45	Bromate	USEPA 300.1
5.46	Nickel	ICP-MS

8.0 Chemical Residue Testing

The following analyses from the NZFSA (Animal Products) National Residue Programme Technical Specifications (April 2002), in accordance with the methods indicated.

8.17 Synthetic pyrethroid and carbamate pesticides In-house by GC

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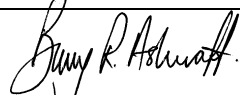
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8.18	Organophosphates	In-house by GC
8.20	Heavy Metals	ICP-MS
8.21	Organochlorines	In-house by GC

Chemical Residue Testing 8.17, 8.18 and 8.21 are carried out at:

Hill Laboratories
 Waikato Innovation Park
 Ruakura Lane
 Hamilton

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