



Certificate of Analysis

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Client:	Lotus at Siam.Co.NZ Limited	Lab No:	2284997	DW PV2
Contact:	Duncan Laing 9 Ernlea Terrace Cashmere Christchurch 8022	Date Received:	02-Dec-2019	
		Date Reported:	10-Dec-2019	
		Quote No:	90913	
		Order No:		
		Client Reference:	Spring Water	
		Submitted By:	Duncan Laing	

Sample Type: Aqueous

Sample Name:	Lotus Spa 02-Dec-2019 9:00 am	Guideline Value	Maximum Acceptable Values (MAV)
Lab Number:	2284997.1		
Escherichia coli	MPN / 100mL	< 1	< 1
Total Legionellae*	cfu / mL	< 10	-

Note: The Guideline Values and Maximum Acceptable Values (MAV) are taken from the publication 'Drinking-water Standards for New Zealand 2005 (Revised 2018)', Ministry of Health. Copies of this publication are available from <https://www.health.govt.nz/publication/drinking-water-standards-new-zealand-2005-revised-2018>

The Maximum Acceptable Values (MAVs) have been defined by the Ministry of Health for parameters of health significance and should not be exceeded. The Guideline Values are the limits for aesthetic determinands that, if exceeded, may render the water unattractive to consumers.

Under Section 69ZZ (2) of the Health Act (1965), the laboratory is required to report the results of any analysis or test carried out (for the purposes of testing for compliance with the New Zealand Drinking Water Standards 2005 (Revised 2018)) that indicates any non-compliance (transgression) with the Maximum Acceptable Values (MAVs) to the Drinking Water Assessor.

Note that the units g/m³ are the same as mg/L and ppm.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Test	Method Description	Default Detection Limit	Sample No
Escherichia coli	MPN count using Colilert (Incubated at 35°C for 24 hours), or Colilert 18 (Incubated at 35°C for 18 hours), Analysed at Hill Laboratories - Microbiology; 101c Waterloo Road, Hornby, Christchurch. APHA 9223 B 23 rd ed. 2017.	1 MPN / 100mL	1
Total Legionellae*	Spread plate, Count on BMPAa & GVPC agars, Incubated at 36°C for 7 days, Confirmation. Analysed at Hill Laboratories - Microbiology; 101C Waterloo Road, Christchurch. AS/NZ 3896:2017; AS 3666.3:2011.	10 cfu / mL	1

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

Emma Swadel MSc
Team Leader - Microbiology



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