



Certificate of Analysis

Page 1 of 1

Client:	Kaike Farm Limited	Lab No:	2110044	SPv1
Contact:	Kaike Farm Limited 15 Ellerslie Park Road Ellerslie Auckland 1051	Date Received:	17-Jan-2019	
		Date Reported:	23-Jan-2019	
		Quote No:		
		Order No:	Test #4. incl 2 springs	
		Client Reference:		
		Submitted By:	Kaike Farm Limited	

Sample Type: Aqueous

	Sample Name:	Potters Boundary 10-Jan-2019 10:24 am	Mooneys Boundary 10-Jan-2019 11:37 am	Solar/Pond Spring 10-Jan-2019 9:24 am	Hill Spring 10-Jan-2019 10:00 am	
	Lab Number:	2110044.1	2110044.2	2110044.3	2110044.4	
Total Nitrogen	g/m ³	0.55	0.36	0.32	2.7	-
Nitrate-N + Nitrite-N	g/m ³	0.006	< 0.002	< 0.002	1.06	-
Total Kjeldahl Nitrogen (TKN)	g/m ³	0.55	0.36	0.32	1.66	-
Total Phosphorus	g/m ³	0.057	0.030	0.029	0.25	-

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
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-	1-4
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m ³ is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m ³ , the Default Detection Limit for Total Nitrogen will be 0.11 g/m ³ .	0.05 g/m ³	1-4
Nitrate-N + Nitrite-N	Total oxidised nitrogen. Automated cadmium reduction, flow injection analyser. APHA 4500-NO ₃ -I (modified) 23 rd ed. 2017.	0.002 g/m ³	1-4
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-N _{org} D (modified) 4500 NH ₃ F (modified) 23 rd ed. 2017.	0.10 g/m ³	1-4
Total Phosphorus	Total phosphorus digestion, ascorbic acid colorimetry. Discrete Analyser. APHA 4500-P B & E (modified from manual analysis and also modified to include a reductant to reduce interference from any arsenic present in the sample) 23 rd ed. 2017. NWASCO, Water & soil Miscellaneous Publication No. 38, 1982.	0.004 g/m ³	1-4

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.

Carole Rodgers-Carroll BA, NZCS
Client Services Manager - Environmental



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