



9 Aston Street
 BLENHEIM
 Telephone 021-343 089
 After hours 0-3-578 8270
 Facsimile 0-3-578 8166



WATER WELL ENGINEERS TO MARLBOROUGH

Log No 793

Well Owner Rarangi Holdings Trust
 C/o P.J. Woolley
 Hunters Road
 Tuamarina

Contact Name Philip Woolley

3490

Driller Rob Millard

Map Sheet No p28

Altitude (m):

Drilling Date 20/03/2003

Grid Ref East:

South

Locality Lot 40 Edgewater Estate 2595828e 5975406n

Depth To Strata Top (m)	Strata Bottom (m)	Strata Thickness (m)	Static Level (m)	Strata Description	Strata Picture
0.00	10.10	10.10	3.33	Grey fine gravel to sand, and shellfish shells	

Finished Static
 Water Level: 3.33

Test Pumping: 2.00 Hours

Draw Down (m): 3.50 Below Static Water Level

Flow Rate: 4.07 cubic mph

Step Test By:

No: 1 Screen Type SS wedge wire

Casing above ground (mm): 330

Casing NB Dia
 (mm): 80

Ground Level

Screen NB Dia
 (mm): 100

Leader Length
 (m): 0.00

Top of Screen Leader (m): 0.00

Top Of Screen (m): 7.85

Casing Length
 (m): 7.85

From:	To:	Slot Size	Length
7.85	9.35	0.25	1.50

Bottom Of Screen (m) 9.35

Length of Sump (m) 0.30

Total Screen
 Length (m): 1.50

Finished Depth of Well (m) 9.65

Remarks:

PLEASE NOTE:

Test pumping flow rates, static levels, and water level draw down are as recorded at the time of test pumping. These figures could change at a later time due to influences beyond our control (e.g. seasonal variations).

Cawthron Laboratory Services Report

98 Halifax St East,
Phone 0800 50 25 25
lab@cawthron.org.nz

Private Bag 2,
Fax 03 5469464
www.cawthron.org.nz

Nelson.



CAWTHRON

Certificate of Test Analysis

Report Type: Amended

Project Number: P12547

Rarangi Holdings Trust
C/- PJ & SW Wooley
P O Box 20
Tuamarina
MARLBOROUGH

Customer order no:

Customer ref: Q200327
Date Project Started 08/04/2003 11:19am

Sample Details

Laboratory ID: P12547-1
Description: Lot 40

Sample Type: Water

Date Received: 08/04/2003 08:00am

Analysis	Result	Units	Method
<i>E. coli</i>	<1	MPN/100mL	MIMMS 3rd Edn 11A1
Chloride	22	g/m ³	APHA 20th Edn 4110B
Nitrate-N	0.45	g/m ³	APHA 20th Edn 4110B
Ammonia-N	0.006	g/m ³	APHA 20th Edn 4500NH ₃ H
Conductivity	32	mS ^m -1	APHA 20th Edn 2510B
pH	8.1	-	APHA 20th Edn 4500H.B
Turbidity	0.2	NTU	APHA 20th Edn 2130B
Arsenic	<0.006	g/m ³	APHA 20th Edn 3120B Acid Preserved. ICP-OES
Calcium	38	g/m ³	APHA 20th Edn 3120B Acid Preserved. ICP-OES
Iron	0.004	g/m ³	APHA 20th Edn 3120B Acid Preserved. ICP-OES
Magnesium	4.0	g/m ³	APHA 20th Edn 3120B Acid Preserved. ICP-OES
Manganese	0.010	g/m ³	APHA 20th Edn 3120B Acid Preserved. ICP-OES
Hardness	111	g/m ³ as CaCO ₃	APHA 20th Edn 2340B Calculation.

Our routine detection limits for chemical testing relate to samples with a clean matrix.
Reported detection limits may be higher for individual samples if there is insufficient sample or the matrix is complex.

Results apply to samples as received

Report Number: 26599

Previous Report Number: 26048

Date Generated: 1/5/03

Reason for Amendment: Incorrect Lot number.

Amended Report Requested By: Toni Deas

Authorised By: Nico van Loon

Position: Laboratory Services Manager

Signature:

End Of Report



This laboratory is accredited by IANZ
Unless specified all tests reported herein
have been performed in accordance with

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Reanalysis



Sample Details

Laboratory ID: P14495-23 Sample Type: Water Date Received: 26/05/2003 03:38pm
Description: Lot 31 Date Sampled: 02/04/2003

Analysis	Result	Units	Method
Arsenic	0.001	g/m ³	APHA 20th Edn 3114 B & C

Sample Details

Laboratory ID: P14495-24 Sample Type: Water Date Received: 26/05/2003 03:38pm
Description: Lot 32 Date Sampled: 05/05/2003

Analysis	Result	Units	Method
Arsenic	0.003	g/m ³	APHA 20th Edn 3114 B & C

Sample Details

Laboratory ID: P14495-25 Sample Type: Water Date Received: 26/05/2003 03:38pm
Description: Lot 33 Date Sampled: 02/04/2003

Analysis	Result	Units	Method
Arsenic	0.004	g/m ³	APHA 20th Edn 3114 B & C

Sample Details

Laboratory ID: P14495-26 Sample Type: Water Date Received: 26/05/2003 03:38pm
Description: Lot 34 Date Sampled: 02/04/2003

Analysis	Result	Units	Method
Arsenic	0.005	g/m ³	APHA 20th Edn 3114 B & C

Sample Details

Laboratory ID: P14495-27 Sample Type: Water Date Received: 26/05/2003 03:38pm
Description: Lot 38 Date Sampled: 05/05/2003

Analysis	Result	Units	Method
Arsenic	0.002	g/m ³	APHA 20th Edn 3114 B & C

Sample Details

Laboratory ID: P14495-28 Sample Type: Water Date Received: 26/05/2003 03:38pm
Description: Lot 40 Date Sampled: 08/04/2003

Analysis	Result	Units	Method
Arsenic	0.003	g/m ³	APHA 20th Edn 3114 B & C

P28W/3490

Sample Details

Laboratory ID: P14495-29 Sample Type: Water Date Received: 26/05/2003 03:38pm
Description: Lot 45 Date Sampled: 08/04/2003

Analysis	Result	Units	Method
Arsenic	0.002	g/m ³	APHA 20th Edn 3114 B & C

Sample Details

Laboratory ID: P14495-30 Sample Type: Water Date Received: 26/05/2003 03:39pm
Description: Lot 46 Date Sampled: 04/04/2003

Analysis	Result	Units	Method
Arsenic	0.002	g/m ³	APHA 20th Edn 3114 B & C

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