

**SIMPSON BROS BLENHEIM LTD**

75 GROVE ROAD

BLENHEIM

025 463224

03 5788224

WELL OWNER	A Davidson (ex MAY)	PERMIT NUMBER	
ADDRESS	444 Old Renwick Road	M.D.C. WELL NUMBER	3595
	R D 2	GRID REFERENCE	
DRILLER	C G Simpson	DRILL DATE	18/04/01
LOCALITY	as above		

DEPTH FROM SURFACE (M)	STRATA	STATIC WATER LEVEL (M)
0.6	Top Soil	
1.2	Silty Brown Clay	
1.8	Brown Clay & Shingle	
5.3	Shingle & Brown Clay	
6.9	Yellow Clay, Shingle & Sand	
8.08	W/B Shingle & Yellow Clay	7.8
13.2	Yellow Clay & Shingle	
14.1	W/B Shingle & Yellow Clay	7.8
18.9	Yellow Clay & Shingle	
20.33	W/B Shingle & Yellow Clay	7.5

CASING DIAMETER	100mm	LENGTH	19.18m
SCREEN P V C SLOT		SET AT	19.18 to 20.33m
SCREEN LENGTH	1.2m	SLOT SIZE	75mm x 2.5mm
DRAW DOWN	0.6m	AFTER 1.5 HOURS PUMPING AT	38 GPM = 10.374 m <sup>3</sup> /hour.

REMARKS

03 5788224

REMARKS

Report No. c0104966

Cawthron Ref No: M54677

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25 May 2001

Simpson Bros Blenheim Ltd  
75 Grove Road  
BLENHEIM



CAWTHRON

### Chemical and Microbiological Analysis of Drinking Water

Date Sample Taken: 10/05/01  
Date Sample Received: 10/05/01  
Number of Samples: 1 sample received for testing

Lab No: 01W04283  
Sample Description: Davidson  
Time Sample Taken: 12:10

Faecal Coliforms cfu/100mL	<1
pH	6.8
Free Carbon Dioxide g/m <sup>3</sup>	11
Acidity g/m <sup>3</sup> as CaCO <sub>3</sub>	13
Alkalinity g/m <sup>3</sup> as CaCO <sub>3</sub>	50
Conductivity mSm <sup>-1</sup>	12
Nitrate-N g/m <sup>3</sup>	0.38
Chloride g/m <sup>3</sup>	3.6
Calcium g/m <sup>3</sup>	12
Magnesium g/m <sup>3</sup>	2.8
Hardness g/m <sup>3</sup> as CaCO <sub>3</sub>	43
Copper g/m <sup>3</sup>	<0.01
Iron g/m <sup>3</sup>	1.4
Manganese g/m <sup>3</sup>	<0.01

FILE No.:
OFFICER:
DATE REC'D 21 FEB 2002
MARLBOROUGH DISTRICT COUNCIL

### Comments

< means less than

Results apply to sample as received.

Comments are not covered under the terms of Cawthron's IANZ Registration.



All tests reported  
herein have been  
performed in accordance  
with the laboratory's  
scope of accreditation

### Comments for Sample 01W04283

At the time of testing this sample complied with the faecal coliform maximum limit (less than 1/100mL), stated in the Drinking Water Standards for NZ(2000). The results are only indicative of the water quality at the time of testing and may vary depending on weather conditions and time of year.

This sample complies with the guideline values for inorganic chemical determinands of health significance as stated in the Drinking Water Standards for NZ (2000), for nitrate, manganese and copper.

This sample has an iron concentration above the maximum allowable value for aesthetic significance (0.2g/m<sup>3</sup>) stated in the Drinking Water Standards for NZ (2000)

*Very noticable for about 10 weeks - ie staining and taste - since cleared and now great.*

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**CAWTHRON**

**Methods of Analysis**

Faecal coliforms-APHA 20th Edn 1998, Methods 9222D

pH - meter (APHA 20th Edn 1998, Method 4500H.B)

Free Carbon Dioxide (CO<sub>2</sub>) - Titrimetry (APHA 20th Edn 1998, Method 4500-CO<sub>2</sub>C)

Acidity - Titrimetry (APHA 20th Edn 1998, Method 2310B).


Total Alkalinity - Titrimetry (APHA 20th Edn 1998, Method 2320B)

Nitrate, chloride, - Ion chromatography (APHA 20th Edn 1998, Method 4110B)

Acid Soluble Metals - Atomic Spectrometric determination on an acid preserved sample (APHA 20th Edn 1998, Method 3111B/3114B,C)

Hardness - Calculation (APHA 20th Edn 1998, Method 2340B)

Toni Deas:   
Senior Environmental Analyst

Brett Hogue:   
Senior Analyst - Microbiology



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