

SOUTH-WEST CHEMICAL SERVICES

Specialising in water & soil & plant analysis, bacteriological testing, chemical,
Environmental & Consultancy Services

Mr Peter Hutchison, 19 Frances Road, Gelorup, WA...6230

Telephone/Fax: 08-97959821 Mobile: 0402 572 849

CERTIFICATE OF ANALYSIS

Chemical Water Analysis

Client Name: **Quantum Filtration Medium** Job No: 31833
Address: Leschenault Drive, North Shore, Bunbury, WA 6230
Tel No: 97214044 Fax No: 97214046 Mob: -
Date Received: 18th July 2003 Lab No: 1495
Report date: 30th July 2003
Sample Source: North bore water sample taken from South West Health Campus, Bunbury.
Sample Use: Filtration
Test Method: Samples submitted by client are analysed on as received basis.
Analysis performed in accordance with MPL WILAB 5.0, 6.0 and 8.0
Analysis performed in accordance to NATA certification

		DETECT LIMIT	RECOMM. MAXIMUM	UNIT	Bore (Raw) water before filtration	Bore (Treated) water after filtration
1.	Conductivity	1 +	N/S	µS/m	470	500
2.	TDS (Calculated)	1 +	1000	mg/L	300	320
3.	pH	+	6.5 to 8.5		6.4	6.3
4.	Carbonate	1 +	N/S	mg/L	<1	<1
5.	Bicarbonate	1 +	N/S	mg/L	73	58
6.	Hydroxide	1 +	N/S	mg/L	<1	<1
7.	Sodium	5	180	mg/L	60	70
8.	Potassium	1	N/S	mg/L	12	12
9.	Calcium	1	N/S	mg/L	7	8
10.	Magnesium	1	N/S	mg/L	9	9
11.	Hardness as CaCO ₃	1	200	mg/L	55	55
12.	Iron	0.01	0.3	mg/L	16	0.02
13.	Silicon	2	N/S	mg/L	8	8
14.	Cadmium	1	2	µg/L	<1	<1
15.	Lead	1	10	µg/L	<1	<1
16.	Copper	0.01	1.0*	mg/L	<0.01	<0.01
17.	Manganese	0.01	0.1	mg/L	0.54	0.01
18.	Zinc	0.01	3	mg/L	0.63	1.8

The Recommended Maximums are taken from "Australian Drinking Water Guidelines" published by NHMRC and ARMC 1996 (* refers to updated value September 2001)

N/S = No Specified Maximum given

+ = indicates sample received outside holding time recommended by AS 5667.1. 1998

Peter Hutchison
Consultant Analytical Chemist.
BSc (Chemistry)

30th July 2003

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		DETECT LIMIT	RECOMM. MAXIMUM	UNIT	Bore (Raw) water in	Bore (Treated) water out
19.	Selenium	1	10	µg/L	<1	<1
20.	Arsenic	1	7	µg/L	5	<1
21.	Chromium	0.01	0.05	mg/L	<0.01	<0.01
22.	Mercury	0.1	1	µg/L	<0.1	<0.1
23.	Cobalt	0.01	N/S	mg/L	<0.01	<0.01
24.	Nickel	0.01	0.02	mg/L	<0.01	<0.01
25.	Aluminium	0.2	0.2	µg/L	<5	<5
26.	Barium	1	700	µg/L	94	42
27.	Chloride	1	250	mg/L	96	110
28.	Sulphate	1	250	mg/L	18	18
29.	Nitrate as NO3	0.1 +	100	mg/L	<0.1	<0.1
30.	Nitrite as NO2	0.1 +	3	mg/L	<0.1	<0.1
31.	Boron	0.05	4*	mg/L	0.05	<0.05

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