



OMEGA INTERNATIONAL PTY.LTD.

ABN 35 006 185 066

OMEGA WATER SYSTEMS™

SILVER SANITISED WATER FILTRATION™

Wednesday, April 23, 2003

## REPORTS

Laboratory Testing for Omega-Dent-X Dental Chair Unit Water Line (DUWL) Silver Sanitizer including Domestic and Industrial Systems

### Microbiology Methodology

Samples were tested by Australian Government Analytical Laboratories (AGAL) Microbiological Methods (AVM) and EML Consulting Services (EML) which are based on Australian Standards (AS) methods and include:

1. **Coliforms** Performed by **AGAL** by method AVM1\_09A Membrane Filtration (based on AS 4276.5-1995) Summary: 100mL of sample is filtered and the filter transferred to a membrane lauryl sulfate broth soaked filter pad and incubated at 300C for 4 hours and then 370C for 16 hours. Isolates are confirmed by Lactose peptone water, Nutrient Agar and oxidase tests.
  - (i) **Secondary Analysis** performed by **EML** on Industrial System – Method 3.3.2.20 Ref. # 202414 27/02/2000
2. **Pseudomonads** Performed by **EML** by method 3.10.1.5 Membrane filtration Summary: 100mL of sample is filtered and the filter transferred to a Cetrimide B agar and incubated at 210C for 48 hours. Isolates are confirmed by Asparagine Broth, Nutrient Agar, oxidase tests and Oxidation/Fermentation medium.
3. **Standard Plate Count** Performed by **AGAL** by method AVM1\_22 (based on AS 4276.3.1-1995) Summary: 1mL of sample and further dilutions are plated into Plate count agar and incubated at 370C for 48 hours.
  - (ii) **Secondary Analysis** performed by **EML** on Industrial System – Method 3.1.23 Ref. # 204851 15/05/2000
4. **Legionella** Performed by **EML** by method 3.17.1 Species by cfu/mL LpneSG1, LpneSG2+, L.other. Summary: 0.1mL of the sample is spread

#### WATER TECHNOLOGISTS

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plated onto MWY plates and incubated at 37°C for 7 days. Isolates are confirmed with Horse blood agar, BCYE plates and Gram stains.

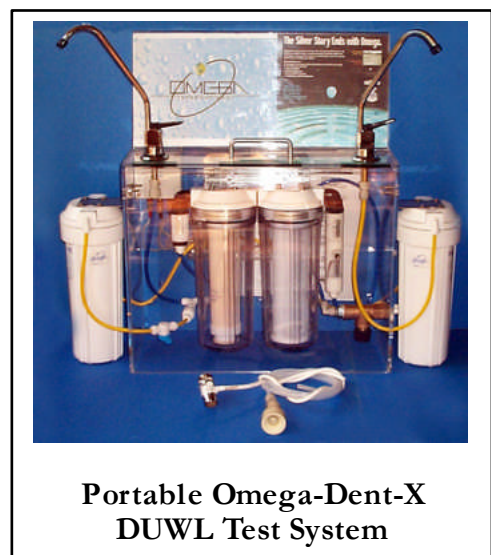
- 5. **Total Dissolved Solids (TDS)** Performed by **AGAL** by Method VL281 (Sample numbers V03/011672 & V03011673) Job # OMEG05/030403 Summary: Units of measure mg/L
- 6. **Silver Content** Performed by **AGAL** by Method VL250 (Sample numbers V03/011672 & V03011673) Job # OMEG05/030403 Summary: Units of measure ug/L
- 7. **Benchmark** water sample from AGAL using Melbourne Water – Lab Reg. # V03/011672

**Results – Copies of laboratory reports attached**

Sample	SPC CFU/mL	Coliforms MPN/100mL	Legionella LpneSG1 LpneSG2 + L. other	Pseudomonad s /100mL	TDS mg/L	Ag ug/L	Date
Silver Water EML	< 1000	N/D	< 10	N/D	N/A	N/A	Mar 00
AGAL V03/011673	< 25	< 1	N/A	N/A	< 9	1.7	14/05/03
Double De-ionised Water	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benchmark AGAL V03/011672	< 25	< 1	N/A	N/A	< 9	< 1	14/05/03



Omega-Dent-X DUWL System



Portable Omega-Dent-X  
DUWL Test System

Portable test system designed specifically for DHSV laboratory testing for authenticity of original units installed with DHSV.



Portable test system designed specifically for DHSV laboratory testing for authenticity of original units installed with DHSV. Sample waters were extracted from this system for Laboratory testing.

**AUTHENTICATED BY AGAL SENIOR MICROBIOLOGIST**

**Julie Maczugar**

Attachments:

- I. AGAL Reports
- II. Delineation Sheet attached for parts list. (Info)

- III. Test Report on Housings (Info)
- IV. Terms & Conditions of Sale (Info)

**This material is to be used in conjunction with original AGAL & reports.**

**Robert M Wardzynski** *M.A.I.E.S.*  
Managing Director