ECOLI, Coliform and Pseudomonas: ECOsmarte Lab Science



Mr Savra Keller Ecosmarte PO Box 874 KURANDA QLD 4881

Dear Sir

Re: Laboratory Report No: 49411

Four water samples were produced by the Ecosmarte Ionisation Oxidation Unit at our Laboratory and observed by myself – Jon Dicker. These samples were called Control and 0.18 Cu, 0.44 Cu and 0.70 Cu indicating the times that the samples were run with the Ecosmarte Ionisation Oxidation Unit.

Each sample was tested for our standard suite of analytes in a Potability Certificate, and it was found that for the analytes tested, each sample complied with 2004 NH & MRC Australian Guidelines for Drinking water.

If you have any further queries please do not hesitate to contact the undersigned.

Yours faithfully

SGS Environmental Services

Jon Dicker

Operations Manager



LABORATORY REPORT COVERSHEET

Date:

29 June 2005

To:

Ecosmarte

PO Box 874

KURANDA QLD 4881

Attention:

Mr Sarva Keller

Your Reference:

Laboratory Report No:

49411

Samples Received:

01/06/05

Samples / Quantity

4 Water

The above samples were received intact and analysed according to your written instructions. Unless otherwise stated, solid samples are reported on a dry weight basis and liquid samples as received.

MARGARET NANKERVIS

Business Manager

JON DICKER

Operations Manager





CLIENT: Ecosmarte PROJECT:

Laboratory Report No: 49411

LABORATORY REPORT

Our Reference Your Reference	Units	Australian Drinking Water Guidelines 2004	49411-1 Control	49411-2 0.18 Cu
Chemical Potability				
pH	pH Units	8.5	7.3	7.1
Electrical Conductivity @ 25°C	µS/cm	1500	52	56
TDS (calc)	mg/L	500	30	35
Turbidity	NTU	5	<0.5	<0.5
Bicarbonate Alkalinity as CaCO3	mg/L CaCO ₃		<5	8
Carbonate Alkalinity as CaCO3	mg/L CaCO3		<5	<5
Chloride, Cl	mg/L	250	9	9
Fluoride, F	mg/L	1.5	<0.05	<0.05
Sulphate, SO ₄	mg/L	500	<2	<2
Total Oxidised Nitrogen (as N)	mg/L	11	0.05	0.05
Hardness (equivalent CaCO3)	mg/L CaCO3	200	<5	<5
Silica, SiO3 *	mg/L		13	12
Sodium, Na	mg/L	180	6.3	6.4
Potassium, K	mg/L		0.7	0.9
Calcium, Ca	mg/L		1.1	1.0
Magnesium, Mg	mg/L		<0.5	<0.5
Copper, Cu	mg/L	2	<0.01	0.21
Zinc, Zn	mg/L	3	<0.005	0.005
Iron, Fe	mg/L	0.3	<0.05	< 0.05
Manganese, Mn	mg/L	0.5	< 0.05	< 0.05
Aluminium, Al	mg/L	0.2	<0.05	< 0.05
Arsenic, As	mg/L	0.007	<0.005	< 0.005
Cadmium, Cd	mg/L	0.002	<0.0002	<0.0002
Lead. Pb	mg/L	0.01	<0.002	< 0.002
Chromium, Cr	mg/L	0.05	<0.002	<0.002
Nickel, Ni	mg/L	0.02	<0.002	<0.002
Titanium, Ti #	mg/L	3.02	< 0.001	< 0.001



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NATA Endorsed Test Report
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CLIENT: Ecosmarte PROJECT:

Laboratory Report No: 49411

LABORATORY REPORT

Our Reference Your Reference	Units	Australian Drinking Water Guidelines 2004	49411-3 0.44 Cu	49411-4 0.70 Cu
Chemical Potability				
pH	pH Units	8.5	7.2	7.0
Electrical Conductivity @ 25°C	μS/cm	1500	57	53
TDS (calc)	mg/L	500	37	33
Turbidity	NTU	5	<0.5	<0.5
Bicarbonate Alkalinity as CaCO3	mg/L CaCO3		10	8
Carbonate Alkalinity as CaCO3	mg/L CaCO3		<5	<5
Chloride, Cl	mg/L	250	9	8
Fluoride, F	mg/L	1.5	<0.05	< 0.05
Sulphate, SO ₄	mg/L	500	<2	<2
Total Oxidised Nitrogen (as N)	mg/L	11	0.07	0.06
Hardness (equivalent CaCO3)	mg/L CaCO ₃	200	<5	<5
Silica, SiO3 *	mg/L	- 14 W. W. 21	12	12
Sodium, Na	mg/L	180	6.9	6.3
Potassium, K	mg/L		0.7	0.6
Calcium, Ca	mg/L		1.1	0.8
Magnesium, Mg	mg/L		<0.5	<0.5
Copper, Cu	mg/L	2	0.47	0.68
Zinc, Zn	mg/L	3	0.034	0.015
Iron, Fe	mg/L	0.3	<0.05	<0.05
Manganese, Mn	mg/L	0.5	<0.05	<0.05
Aluminium, Al	mg/L	0.2	< 0.05	<0.05
Arsenic, As	mg/L	0.007	<0.005	< 0.005
Cadmium, Cd	mg/L	0.002	<0.0002	<0.0002
Lead, Pb	mg/L	0.01	<0.002	<0.002
Chromium, Cr	mg/L	0.05	<0.002	<0.002
Nickel, Ni	mg/L	0.02	<0.002	<0.002
Titanium, Ti #	mg/L		< 0.001	< 0.001





NATA Endorsed Test Report
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CLIENT: Ecosmarte PROJECT:

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LABORATORY REPORT

TEST PARAMETERS	UNITS	LOR	METHOD
Chemical Potability			
рН	pH Units	0.1	CEI-001
Electrical Conductivity @ 25°C	µS/cm	5	CEI-010
TDS (calc)	mg/L	10	APHA
Turbidity	NTU	0.5	CEI-007
Bicarbonate Alkalinity as CaCO3	mg/L CaCO3	5	CEI-012
Carbonate Alkalinity as CaCO ₃	mg/L CaCO3	5	CEI-012
Chloride, Cl	mg/L	2	CEA-008
Fluoride, F	mg/L	0.05	CEI-048
Sulphate, SO ₄	mg/L	2	CEA-009
Total Oxidised Nitrogen (as N)	mg/L	0.05	CEA-001
Hardness (equivalent CaCO3)	mg/L CaCO3	5	CEI-200
Silica, SiO3 *	mg/L	5	CEI-200
Sodium, Na	mg/L	0.5	CEI-200
Potassium, K	mg/L	0.5	CEI-200
Calcium, Ca	mg/L	0.5	CEI-200
Magnesium, Mg	mg/L	0.5	CEI-200
Copper, Cu	mg/L	0.01	CEI-200
Zinc, Zn	mg/L	0.005	CEI-200
Iron, Fe	mg/L	0.05	CEI-200
Manganese, Mn	mg/L	0.05	CEI-200
Aluminium, Al	mg/L	0.05	CEI-201
Arsenic, As	mg/L	0.005	CEI-201
Cadmium, Cd	mg/L	0.0002	CEI-201
Lead, Pb	mg/L	0.002	CEI-201
Chromium, Cr	mg/L	0.002	CEI-201
Nickel, Ni	mg/L	0.002	CEI-201
Titanium, Ti #	mg/L	0.001	ICP



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LABORATORY REPORT

NOTES:

LOR - Limit of Reporting.

Where no Guideline is listed, there is no Guideline available to date, except for pH which has a range from pH 6.5 to pH 8.5.

* This test is not covered by our current NATA accreditation.

This analsis determined at Sydney Analytical Laboratories (Seven Hills, NSW), their reference SAL16129, who are NATA accreditated (Accreditation No: 1884) for this parameter.



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