

**EML (CHEM) PTY LTD**

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Job No: 1111/156

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Date: 17 November 2011

F Cubed Australia Pty Ltd
23 Fillo Drive
SOMERTON VIC 3062**Attention: Mr Stuart Eastaugh**

Dear Sir/Madam,

Re: Analysis of Water Samples**METHOD LIST**

Method	Method Description (in-house method based on)	Method	Method Description (in-house method based on)
1001A	21st Ed. 2005 A.P.H.A. Method 2540 A, C	ALK	20th Ed. 1998 A.P.H.A. Method 2320 A, B
CATIONS	21st Ed. 2005 A.P.H.A. Method 3010 A, 3030, 3111, 3114	CHLORIDE	20th Ed. 1998 A.P.H.A. Method 4500-Cl- D
COND-M	20th Ed. 1998 A.P.H.A. Method 2510 A, B	METALS-ICP	21st Ed. 2005 A.P.H.A. Method 3010 A, 3030; USEPA Method 6010B, 3005A, 3010A, 3050B
NH3-LL-DA	21st Ed. 2005 A.P.H.A. Method 4500-NH3 A, B; Aquakem, Ammonia method AMMDIC, Apr 2004	ORGN-LL-DA	21st Ed. 2005 A.P.H.A. Method 4500-Norg A, B, 4500-N A; Aquakem, Total Kjeldahl Nitrogen method TKN-K-S-A, Nov 2008
PH	21st Ed. 2005 A.P.H.A. Method 4500-H+ A, B	SO4	15th Ed. 1998 A.P.H.A. Method 426 C; USEPA Method 9038 Rev 0 Sep 1986
TDSCOND	Manual calculation based on 20th Ed. 1998 A.P.H.A. Method 2510 A, B. NATA Accreditation does not cover the performance of this service.	TON-HR-DA	Total Oxidised Nitrogen, Nitrate, Nitrite as per 21st Ed. 2005 A.P.H.A. Method 4500-N A, Method 4500-NO2 B, Method 4500-NO3 H; Aquakem, Total Oxidised Nitrogen, Apr 2004
TOTP-LL	21st Ed. 2005 A.P.H.A. Method 4500-P A, B, E		

Yours faithfully
EML (CHEM) PTY LTDK Charlson BAppSc
(Managing Director)

NATA Accreditation No. 2731

Important Notes

1. This is a final report and it supersedes any previous interim reports pertaining to this work that you may have received
2. The results in this report pertain to samples as submitted to the laboratory

This laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full



Sample Description			Bore Water Feed 4/11/11 Received 9/11/2011 EML-23009	Water Produced By Carocell 4/11/11 Received 9/11/2011 EML-23010	Brine From Carocell 4/11/11 Received 9/11/2011 EML-23011
Received Method					
Date					
EML Lab No.					
Analyte	Unit	Method			
Total Dissolved Solids @ 105C	mg/L	1001A	5500		6800
Total Dissolved Solids, Cond @25C x0.6	mg/L	TDSCOND		3	
Conductivity at 25C	uS/cm	COND-M	6900	5.7	8600
pH		PH	7.4	6.4	7.8
Total Alkalinity as CaCO3	mg/L	ALK	410	<8	140
Sulphate as SO4	mg/L	SO4	250	<2	320
Ammonia Nitrogen as N	mg/L	NH3-LL-DA	0.04	0.16	0.29
Total Kjeldahl Nitrogen as N	mg/L	ORGN-LL-DA	0.37	0.46	0.45
Nitrate Nitrogen as N	mg/L	TON-HR-DA	<0.01	<0.01	<0.01
Nitrite Nitrogen as N	mg/L	TON-HR-DA	0.002	0.002	<0.001
Total Phosphorus as P	mg/L	TOTP-LL	0.008	<0.004	0.084
Chloride as Cl	mg/L	CHLORIDE	2100	<0.5	2700
Calcium as Ca	mg/L	CATIONS	250	0.14	210
Magnesium as Mg	mg/L	CATIONS	260	0.03	370
Sodium as Na	mg/L	CATIONS	810	0.16	990
Potassium as K	mg/L	CATIONS	15	<0.02	23
Total Iron as Fe	mg/L	METALS-ICP	0.05	<0.01	<0.01
Total Manganese as Mn	mg/L	METALS-ICP	0.71	<0.01	0.36
Total Aluminium as Al	mg/L	METALS-ICP	0.23	<0.01	0.31

Notes:

- Blank space indicates test not performed
- LOR: Limit of Reporting, calculated from undiluted sample