

Desalination Lab Tests

Company – Trace Inorganic Laboratory

Certificate of Analysis

Sample taken from Sandstone Block of a Bridge Arch (from Water Level up to the top of Arch)

Results in mg per kg

	Test 1					
	0 - 20 mm		40 - 60 mm		130 -150 mm	
	Before	After	Before	After	Before	After
Calcium	254.0	83.5	33.8	7.4	6.0	0.8
Chloride	22.2	13.1	13.3	13.8	29.0	11.2
Magnesium	6.7	3.5	1.4	<1.0	<1.0	<1.0
Nitrate	17.7	5.7	7.4	4.1	5.1	5.0
Potassium	72.0	49.3	54.6	48.8	92.6	62.5
Sodium	23.6	12.8	14.3	10.1	21.5	8.1
Sulphate	37.9	36.6	12.9	15.9	17.8	16.8

	Test 2					
	0 - 20 mm		40 - 60 mm		130 -150 mm	
	Before	After	Before	After	Before	After
Calcium	830.0	244.0	417.0	289.0	18.9	36.4
Chloride	9260.0	2545.7	6290.0	2190.0	2620.0	1780.3
Magnesium	50.8	6.7	20.7	4.9	1.2	1.2
Nitrate	4650.0	869.0	2520.0	829.0	967.0	590.0
Potassium	212.0	116.0	204.7	148.0	189.0	194.6
Sodium	5920.0	1803.0	4280.0	1548.0	1770.0	1236.0
Sulphate	224.6	21.8	123.3	20.9	27.0	17.0

Remarks: Method: 1 g of each sample was extracted with 50ml of water for 3 hours.
Metals were determined ICPAES, anion by ion chromatography.

Another sample test result

Holiday Inn at "The Rocks", Sydney

CERTIFICATE OF ANALYSIS

Sample log in details:

Your Reference:

No. of samples:

Date samples received / completed instructions received

Holiday Inn The Rocks

2 bricks

18/10/16 / 18/10/16

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Mg / kg

Date 25 October 2016

Tested on Bricks (2)

Reference	Depth	Test before	Test after
1 Brick	20mm	24,000	12,000
2 Brick	40mm	12,000	9,800

Methodology Summary

Soil samples are extracted and measured using a conductivity cell and dedicated meter.



**Health
Pathology**

**Forensic & Analytical
Science Service**



REPORT NUMBER: W2015000503

**Trace Inorganic Laboratory
Certificate of Analysis**

Before

Sample ID	Client ID	Sample Description	Sampling Information	Date Received
2015000983	No 3/0-20 mm	A1		09/04/2015
2015000984	No 3/40-60 mm	A1		09/04/2015
2015000985	No 3/130-150 mm	A1		09/04/2015
2015000986	No 4/0-20 mm	A1		09/04/2015
2015000987	No 4/40-60 mm	A1		09/04/2015
2015000988	No 4/130-150 mm	A1		09/04/2015

	2015000983	2015000984	2015000985	2015000986	2015000987	2015000988
Calcium	542	93.9	5.1	1353	269	63.9
Chloride	26.1	13.5	13.3	2109	850	720
Magnesium	36.2	11.3	1.0	54.7	15.0	10.3
Nitrate	11.0	4.6	5.0	1440	522	468.0
Potassium	164	129	97.3	343	198	147.0
Sodium	41.0	22.0	14.7	1360	573	438
Sulfate	665	122.5	15.1	2710	450	9.6

After

Sample ID	Client ID	Sample Description	Sampling Information	Date Received
2015001019	No 3/0-20 mm	B1		09/04/2015
2015001020	No 3/40-60 mm	B1		09/04/2015
2015001021	No 3/130-150 mm	B1		09/04/2015
2015001022	No 4/0-20 mm	B1		09/04/2015
2015001023	No 4/40-60 mm	B1		09/04/2015
2015001024	No 4/130-150 mm	B1		09/04/2015

	2015001019	2015001020	2015001021	2015001022	2015001023	2015001024
Calcium	1.1	2.8	0.6	35.8	106.1	16.4
Chloride	19.7	11.2	8.8	244.9	338.9	162.4
Magnesium	<1.0	<1.0	<1.0	9.4	24.7	6.0
Nitrate	9.4	6.6	4.7	164.4	229.8	108.4
Potassium	60.9	117.0	64.1	107.9	107.7	84.2
Sodium	14.4	15.8	8.4	135.8	160.9	76.6
Sulfate	30.8	71.2	14.7	20.8	95.6	3.8

Remarks : Method : 1 g of each sample was extracted with 50 mL of water for 3 hours. Metals were determined by ICPAES, anion by ion chromatography.

Results in mg/kg

Disclaimer: The results of analysis contained in the report relate only to the sample(s) tested.
* NATA accreditation does not cover the performance of this service.

Date : Thursday, 23 April, 2015



Accredited for compliance with ISO/IEC 17025
Accreditation Number : 3588

Honway

Honway LOUIE
Analyst

NSW Health Pathology
ABN 49 382 586 535

NSW Forensic & Analytical Science Service
Joseph Street (Weeroona Road entrance), Lidcombe
PO Box 162, Lidcombe NSW 2141
Tel (02) 9646 0222 Fax (02) 9646 0333