



TEST REPORT

MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

Report No.	: R1/AD18-52912	Date	: 18/10/2018
Client Name	: Raha Real Estate	Sampling Method	: APHA 9060 A
Project Name	: Not Applicable	Receiving Date / Time	: 15/10/2018 - 17:00 Hrs
Project Number	: Not Applicable	Sampling Location	: Villa No.16
Address	: Abu Dhabi - UAE	Sampling Source	: Water Cooler
Contact Person	: Not Given	Sample Container	: Sterile Bottle
Telephone & Mob. No.	: Not Given	On-Site Treatment	: Residual chlorine neutralised
Contractor	: Not Applicable	Sample Collection Temp.	: Not Specified
Consultant	: Not Applicable	Sampling Date / Time	: 15/10/2018 - 11:00 Hrs
Sample Description	: Drinking Water	Sample Received By	: GTL's Rep.
Request No.	: Q1/AD18-32150	Sample Receipt Temp.	: 4°C
Sample No	: S1/AD18-32150	Tested By	: ABS
Sampled By	: GTL's Rep.	Tests Dates	: 15/10/2018 - 17/10/2018
Sample Receipt Condition	: Intact		

Parameters	Methods	Units	Result	Guideline [#]
Heterotrophic plate count	APHA 9215 B	CFU/ml	25	< 500
Total Coliforms	APHA 9222 B	CFU/100ml	< 1	Absent
Fecal Coliforms	APHA 9222 B & 9222 G	CFU/100ml	< 1	Absent
Escherichia coli	APHA 9222 B & 9222 G	CFU/100ml	< 1	Absent
Fecal Streptococci	APHA 9230 C	CFU/100ml	< 1	Absent

< 1 is considered as absent as per method used.

Test Method Variation : None.

[#]Guideline : The Guidelines for the EPA National Primary Drinking water standard, guidelines for the drinking water quality, fourth edition world health organisation.

Remarks : The results of collected sample is found to be of satisfactory quality and within specific limits of above guideline.

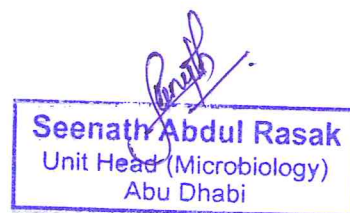
GTL certifies that above tests were carried out in accordance with

1) Standard method for the examination of water and waste water 2012, APHA - AWWA - WEF 22nd edition.

- Result relates only to the item tested
- Report shall not be reproduced (Except in full) without written approval of the laboratory.

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Issue: 01 / 04.01.2012



Rev.: 02 / 22.05.2016

For GEO SCIENCE TESTING LABORATORY - L.L.C.



TEST REPORT

LEGIONELLA ANALYSIS OF DRINKING WATER

Report No.	: R1/AD18-52911	Date	: 27/10/2018
Client Name	: Raha Real Estate	Sampling Method	: BS 7592:2008
Project Name	: Not Applicable	Receiving Date / Time	: 15/10/2018 - 17:00 Hrs
Project Number	: Not Applicable	Sampling Location	: Villa No. 16
Address	: Abu Dhabi, UAE	Sampling Source	: Drinking Water, FND Air Water Generator
Contact Person	: Not Given	Sample Container	: Sterile Bottle
Telephone & Mob No.	: Not Given	On-Site Treatment	: Residual Chlorine Neutralised
Contractor	: Not applicable	Sample Collection Temp.	: Not Specified
Consultant	: Not applicable	Sampling Date / Time	: 15/10/2018 - 11:00 Hrs
Sample Description	: Drinking Water	Sample Received By	: GTL's Rep.
Request No.	: Q1/AD18-32150	Sample Receipt Temp.	: 18°C
Sample No	: S1/AD18-32150	Tested By	: ABS
Sampled By	: GTL's Rep.	Test Dates	: 15/10/2018 - 25/10/2018
Sample Receipt Condition	: Intact		

Parameter	Method	Unit	Result	Guideline [#]
Legionella	ISO 11731:2017	CFU/1000 ml	< 1	< 1000

Limit of detection <1; volume of sample filtered 1000ml

Identification	Result
Legionella spp.	Not Detected

Test Method Variation : None

* Guideline : Guidelines for the Control of Legionella in Water Systems, Public Health and safety Department, Dubai Municipality.

Remarks : The result of collected sample is found to be of satisfactory quality and within specified limit of above guideline.

GTL certifies that above test was carried out in accordance with

1) BS ISO11731-2017 Enumeration of Legionella; Matrix A, Medium C-GVPC

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Seenath Abdul Rasak
Unit Head (Microbiology)
Abu Dhabi

Rev.:02/ 22.05.2016

For GEOSCIENCE TESTING LABORATORY - L.L.C.



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GEOSCIENCE TESTING LABORATORY - L.L.C.

ANALYSIS REPORT ON DRINKING WATER

LABORATORY RESULTS

Report No. : R1AD18- 52913

Date : 21/10/2018

Client / Establishment	Name : RAHA REAL ESTATE	
	Address and Location : ABU DHABI, UAE	
	Nature of Activity : HOUSE	
Sampling Report No.	N/A	Sample Container : PLASTIC BOTTLE 1 L
Sampling Date / Time	15.10.2018 / 1100 HRS	Receiving Date / Time : 15/10/2018 / 1700 HRS
Sampled by	GTL REPRESENTATIVE	Received by : INCHARGE
Delivered by	GTL REPRESENTATIVE	Laboratory Request No. : Q1AD18-32150
Sample Type	LIQUID (DRINKING WATER)	Laboratory Sample ID : S1AD18-32150
Process	NOT GIVEN	On Site Observations / Tests : - Appearance : CLEAR, COLOURLESS LIQUID
Source of Sample	GENERATOR VILLA-16	
Sampling Method	APHA 1060 B	
Sampling Procedure	GRAB	
Sampling Apparatus	PLASTIC BOTTLES	
Sampling Point	FND AIR WATER GENERATOR	On Site Treatment/Preservation of Sample:Transported In Icebox
Sampling Location	VILLA 16	

RESULTS OF CHEMICAL ANALYSIS :

Date of Analysis : 15/10/2018 - 20/10/2018

PARAMETER	TEST METHOD (REFERENCE NO.)	UNIT	DETECTION LIMIT	SPECIFICATION LIMIT, MAX (as per GSO ⁵)	RESULT
pH @ 25 °C	APHA - 4500 H ⁺	-	2.0	6.5 - 8.5	7.13
CONDUCTIVITY * @ 25 °C	APHA - 2510 A	µS/cm	-	-	37.7
TOTAL DISSOLVED SOLIDS @ 180°C	APHA - 2540 C	mg/L	6	1000	26
TOTAL HARDNESS as (CaCO ₃)	APHA 2340 B / IHTP 17	mg/L	6	500	19
TOTAL ALKALINITY as (CaCO ₃)	APHA - 2320	mg/L	5	-	20
COPPER as (Cu)	APHA - 3030 / 3111	mg/L	0.010	2.0	< 0.010
ZINC as (Zn)	APHA - 3030 / 3111	mg/L	0.010	3.0	< 0.010
CHROMIUM as (Cr)	APHA - 3030 / 3111	mg/L	0.010	0.05	< 0.010
LEAD * as (Pb)	APHA - 3120 B	mg/L	0.010	0.01	< 0.010
MANGANESE as (Mn)	APHA - 3030 / 3111	mg/L	0.010	0.5	< 0.010
IRON as (Fe)	APHA - 3030 / 3111	mg/L	0.010	0.3	< 0.010
CHLORIDE as (Cl)	APHA - 4500 Cl ⁻	mg/L	2	250	4
FLUORIDE * as (F)	SPADNS METHOD	mg/L	0.02	1.5	< 0.02
CYANIDE * as (CN)	PYRIDINE PYRAZALONE METHOD	mg/L	0.002	0.07	< 0.002
SALINITY *	APHA - 2520 B	ppt	-	-	0.1
TOTAL RESIDUAL CHLORINE *	DPD - METHOD	mg/L	0.02	-	< 0.02

Remarks :
: 1) The sample tested is Drinking Water.
: 2) The analysed sample meets the requirements specified in Table 1 & 2, Substances and Parameters Related to Quality of Unbottled Drinking Water by ⁵Standardization Organization for GCC (GSO) 149/2000 with respect to the tested parameters.
: 3) * This test is not included in the ENAS scope of Accreditation
Reference : APHA-AWWA-WEF 23rd Ed. 2017 STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTE WATER.
Test Method Variation : None

Tested by : NK

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Vinesh V.L.
Unit Head (Chemical)
Abu Dhabi

For GEOSCIENCE TESTING LABORATORY - L.L.C.



NAL 018
17025

Abu Dhabi : P.O. Box 38442, Tel.: +971-2-550 7855, Fax: +971-2-550 7856
Website : www.geoscience.ae E-mail : info@gtl.ae



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Delivered by	GTL REPRESENTATIVE	Laboratory Request No. : Q1AD18-32150
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Source of Sample	GENERATOR VILLA-16	
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CONDUCTIVITY * @ 25 °C	APHA - 2510 A	µS/cm	-	-	37.7
TOTAL DISSOLVED SOLIDS @ 180°C	APHA - 2540 C	mg/L	6	1000	26
TOTAL SUSPENDED SOLIDS @ 105 °C	APHA - 2540 D	mg/L	6	-	< 6
TOTAL HARDNESS as (CaCO ₃)	APHA 2340 B / IHTP 17	mg/L	6	500	22
TOTAL ALKALINITY as (CaCO ₃)	APHA - 2320 B	mg/L	5	-	20
CALCIUM HARDNESS as (CaCO ₃)	IHTP17 / APHA 2340 B	mg/L	-	-	18
ODOUR *	ORGANOLEPTIC	-	-	ACCEPTABLE	ACCEPTABLE
TASTE *	APHA - 2160 A	-	-	ACCEPTABLE	ACCEPTABLE
COLOUR *	PLATINIUM COBALT METHOD	Units	-	15	< 15
BICARBONATE	APHA - 2320 B	mg/L	-	-	24
NICKEL * as (Ni)	APHA 3030 F / 3111 B	mg/L	0.010	0.020	< 0.010
POTASSIUM * as (K)	APHA 3030 F / 3111 B	mg/L	0.010	-	< 0.010
SODIUM * as (Na)	APHA 3030 F / 3111 B	mg/L	0.010	200	0.144



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NAL 018
17025

Abu Dhabi : P.O. Box 38442, Tel.: +971-2-550 7855, Fax: +971-2-550 7856
Website : www.geoscience.ae E-mail : info@gtl.ae



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MAGNESIUM as (Mg)	APHA 3500 Mg	mg/L	1	-	1
SULFATES as (SO ₄)	APHA - 4500 SO ₄ ² C	mg/L	2	250	< 2
COPPER as (Cu)	APHA - 3030 / 3111	mg/L	0.010	2.0	< 0.010
ZINC as (Zn)	APHA - 3030 / 3111	mg/L	0.010	3.0	< 0.010
CHROMIUM as (Cr)	APHA - 3030 / 3111	mg/L	0.010	0.05	< 0.010
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Jinesh V.L
 Unit Head (Chemical)
 Abu Dhabi

For GEOSCIENCE TESTING LABORATORY - L.L.C.