



**Microbiology Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2101-31254



Request No. : WA-Q-L-2101-04417

Sample No. : WA-S-L-2101-30612

Sampling Date	: 02/01/2021	Report Date.	: 04/01/2021
Analysis Start Date.	: 02/01/2021	Analysis End Date.	: 04/01/2021
Sample Location.	: Al Rayyana	Sampled By	: Client
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Applicable
Site Observation	: Not Given	Sampling Container	: Plastic Bottle
Source of Sample	: Main Pool	Sampling Point	: Not Given
Intended Use	: Not Applicable	Sample Description	: Pool Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	1000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero/100ml
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limit based on: Guide to the Executive Regulations of Law No.(2) for the year of 2012 (Swimming Pool),  
Issued by the Head of Urban Planning and Municipalities No.(3) for the year 2018, Page No.3.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SN	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Head of Microbiology Department



Test results relate only to the samples tested. This report shall not be reproduced except in full, without the written approval of the Laboratory. This is a LIMS software generated document with E Signature.

Form No: WARF-MB-01 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -



**Legionella Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2101-31255



Request No. : WA-Q-L-2101-04417

Sample No. : WA-S-L-2101-30612

Sampling Date	: 02/01/2021	Report Date.	: 12/01/2021
Analysis Start Date.	: 02/01/2021	Analysis End Date.	: 12/01/2021
Sample Location.	: Al Rayyana	Sampled By	: Client
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Applicable
Site Observation	: Not Given	Sampling Container	: Plastic Bottle
Source of Sample	: Main Pool	Sampling Point	: Not Given
Intended Use	: Not Applicable	Sample Description	: Pool Water

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	<1CFU/L

Note : Not Detected=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter followed by Washing Procedure in Funnel.

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SN	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Head of Microbiology Department



Test results relate only to the samples tested. This report shall not be reproduced except in full, without the written approval of the Laboratory. This is a LIMS software generated document with E Signature.

Form No: WARF-MB-03 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -

## SWIMMING POOL - WATER ANALYSIS REPORT

<b>Client Name:</b> TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
<b>Site Name:</b>	AL RAYYANA		
<b>Sampled By</b>	Crystalline Rep	<b>Visit Date:</b>	02-01-2021
<b>Source of Sample</b>	Swimming Pool	<b>Sample Point</b>	Main Swimming Pool

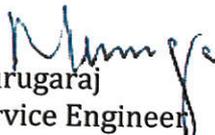
TEST RESULT			
No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.46
2	Conductivity at 25°C, µs/cm	---	319
3	TDS, ppm	Max 1500	207
4	Alkalinity	80 - 120	82
5	Calcium Hardness	200 - 500	226
6	Residual Chlorine	1.0 - 3.0	1.09
7	Cyanuric Acid	20 - 60	22
8	Dip slide	<10 <sup>3</sup>	ND

\*\*\* All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).

### COMMENTS AND RECOMMENDATIONS

- All Parameters are within control limit - No action Recommended.

Reported By,

  
Murugaraj  
Service Engineer





**Microbiology Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2101-31256



Request No. : WA-Q-L-2101-04417

Sample No. : WA-S-L-2101-30613

Sampling Date	: 02/01/2021	Report Date.	: 04/01/2021
Analysis Start Date.	: 02/01/2021	Analysis End Date.	: 04/01/2021
Sample Location.	: Al Rayyana	Sampled By	: Client
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Applicable
Site Observation	: Not Given	Sampling Container	: Plastic Bottle
Source of Sample	: Kids Pool	Sampling Point	: Not Given
Intended Use	: Not Applicable	Sample Description	: Pool Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	1000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero/100ml
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limit based on: Guide to the Executive Regulations of Law No.(2) for the year of 2012 (Swimming Pool), Issued by the Head of Urban Planning and Municipalities No.(3) for the year 2018, Page No.3.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SN	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Head of Microbiology Department



Test results relate only to the samples tested. This report shall not be reproduced except in full, without the written approval of the Laboratory. This is a LIMS software generated document with E Signature.

Form No: WARF-MB-01 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -



**Legionella Test Report**

**Customer Details**

**Crystalline Cleaning & Environmental Services**

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2101-31257



Request No. : WA-Q-L-2101-04417

Sample No. : WA-S-L-2101-30613

Sampling Date	: 02/01/2021	Report Date.	: 12/01/2021
Analysis Start Date.	: 02/01/2021	Analysis End Date.	: 12/01/2021
Sample Location.	: Al Rayyana	Sampled By	: Client
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Applicable
Site Observation	: Not Given	Sampling Container	: Plastic Bottle
Source of Sample	: Kids Pool	Sampling Point	: Not Given
Intended Use	: Not Applicable	Sample Description	: Pool Water

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	<1CFU/L

Note : Not Detected=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter followed by Washing Procedure in Funnel.

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SN	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

**Signed for and on behalf of Wimpey Laboratories**



**Dr. Suresh Murugan Ph.D**

Head of Microbiology Department

Test results relate only to the samples tested. This report shall not be reproduced except in full, without the written approval of the Laboratory. This is a LIMS software generated document with E Signature.

Form No: WARF-MB-03 Issue No.:01 Rev No:00 Issued Date:22-01-2020

- End of Text -

## SWIMMING POOL - WATER ANALYSIS REPORT

<b>Client Name:</b> TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
<b>Site Name:</b>	AL RAYYANA		
<b>Sampled By</b>	Crystalline Rep	<b>Visit Date:</b>	02-01-2021
<b>Source of Sample</b>	Swimming Pool	<b>Sample Point</b>	Kids Swimming Pool

TEST RESULT			
No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.49
2	Conductivity at 25°C, µs/cm	---	332
3	TDS, ppm	Max 1500	218
4	Alkalinity	80 - 120	84
5	Calcium Hardness	200 - 500	229
6	Residual Chlorine	1.0 - 3.0	1.13
7	Cyanuric Acid	20 - 60	23
8	Dip slide	<10 <sup>3</sup>	ND

\*\*\* All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> <li>All Parameters are within control limit – No action Recommended.</li> </ul>

Reported By

  
Murugaraj  
Service Engineer

