



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-2007-13148



Request No. : WA-Q-L-2007-01966

Sample No. : WA-S-L-2007-12711

Sampling Date : 01/07/2020

Report Date. : 4/7/2020

Analysis Start Date. : 01/07/2020

Analysis End Date. : 4/7/2020

Sample Location. : Sas Al Nakheel

Sampled By : Client Representative

Sample Identification : Not Applicable

Sample Submitted as : Water

Sample Certificate No : Not Applicable

Sampling Method : Not Applicable

Temperature °C : Not Applicable

Site Observation : Not Applicable

Sampling Container : Plastic Bottle

Source of Sample : Main Pool

Sampling Point : Not Applicable

Preservation : 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= \leq 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
SM	SM	None

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



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Wimpey Laboratories LLC

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Microbiology Test Report

Report No. : WA-R-L-2007-13148

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist



Test results relate only to the samples tested.

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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-2007-13147



Request No.	: WA-Q-L-2007-01966	Sample No.	: WA-S-L-2007-12711
Sampling Date	: 01/07/2020	Report Date.	: 11/7/2020
Analysis Start Date.	: 01/07/2020	Analysis End Date.	: 11/7/2020
Sample Location.	: Sas Al Nakheel	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: Not Applicable	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Plastic Bottle	Source of Sample	: Main Pool
Sampling Point	: Not Applicable	Preservation	: Not Applicable
Sample Description	: Pool Water		

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

Note : Limit of Detection=<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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist

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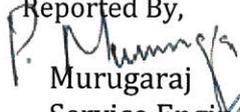
SWIMMING POOL - WATER ANALYSIS REPORT

Client Name: TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
Site Name:	SAS AL NAKHEEL VILLAGE	Visit Date:	01-07-2020
Sampled By:	Crystalline Rep.	Last Visit:	03-06-2020
Source of Sample	Swimming Pool	Sample Point	Main Swimming Pool

TEST RESULT			
No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.51
2	Conductivity at 25°C, µs/cm	---	512
3	TDS, ppm	Max 1500	332
4	Alkalinity	80 - 120	84
5	Calcium Hardness	200 - 500	213
6	Residual Chlorine	1.0 - 3.0	1.23
7	Cyanuric Acid	20 - 60	26
8	Dip slide	<10 ³	ND

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS
<ul style="list-style-type: none"> 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-2007-13150



Request No.	: WA-Q-L-2007-01966	Sample No.	: WA-S-L-2007-12712
Sampling Date	: 01/07/2020	Report Date.	: 4/7/2020
Analysis Start Date.	: 01/07/2020	Analysis End Date.	: 4/7/2020
Sample Location.	: Sas Al Nakheel	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: Not Applicable	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Plastic Bottle	Source of Sample	: Kids Pool
Sampling Point	: Not Applicable	Preservation	: 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= \leq 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
SM	SM	None

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



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2007-13150

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist



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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-2007-13149



Request No.	: WA-Q-L-2007-01966	Sample No.	: WA-S-L-2007-12712
Sampling Date	: 01/07/2020	Report Date.	: 11/7/2020
Analysis Start Date.	: 01/07/2020	Analysis End Date.	: 11/7/2020
Sample Location.	: Sas Al Nakheel	Sampled By	: Client Representative
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: Not Applicable	Sampling Method	: Not Applicable
Temperature °C	: Not Applicable	Site Observation	: Not Applicable
Sampling Container	: Plastic Bottle	Source of Sample	: Kids Pool
Sampling Point	: Not Applicable	Preservation	: Not Applicable
Sample Description	: Pool Water		

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

Note : Limit of Detection=<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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

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SWIMMING POOL - WATER ANALYSIS REPORT

Client Name: TAFAWUQ FACILITY MANAGEMENT, ABU DHABI			
Site Name:	SAS AL NAKHEEL VILLAGE	Visit Date:	01-07-2020
Sampled By:	Crystalline Rep.	Last Visit:	03-06-2020
Source of Sample	Swimming Pool	Sample Point	Kids Swimming Pool

TEST RESULT			
No	Parameter	Control limits	Test Results
1	pH at 25°C	7.2 - 7.6	7.43
2	Conductivity at 25°C, µs/cm	---	1247
3	TDS, ppm	Max 1500	810
4	Alkalinity	80 - 120	93
5	Calcium Hardness	200 - 500	266
6	Residual Chlorine	1.0 - 3.0	1.34
7	Cyanuric Acid	20 - 60	30
8	Dip slide	<10 ³	ND

** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).*

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

Reported By,

Murugataj
Service Engineer

