



Microbiology Test Report

Customer Details

Report No. WA-R-L-2007-13154

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2007-01966	Sample No.	: WA-S-L-2007-12714
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	: Irrigation Tank 2
Sampling Point	: Near Pump Room Gate 3	Preservation	: Not Applicable
Sample Description	: Irrigation 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	23CFU/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	300	--
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	15	--

Note : Not Detected=<10CFU/100ml

Limit based on RSB Abu Dhabi Recycled water and biosolids regulation, 2018. Table A2 for Microbiological Parameters.

Remarks :The tested results of the sample are found to be satisfactory within the available 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.



Microbiology Test Report

Report No. : WA-R-L-2007-13154

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2007-13153

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2007-01966	Sample No.	: WA-S-L-2007-12714
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	: Irrigation Tank 2
Sampling Point	: Near Pump Room Gate 3	Preservation	: Not Applicable
Sample Description	: Irrigation Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/ml	Not Detected	100CFU or MPN/ml

Note : Limit of Detection=<10CFU/ml

Procedure: WSOP-MB-0051. Dilution, Heat Treatment, Acid Treatment followed by Plating on GVPC/MWY Agar.

Limit based on RSB Abu Dhabi Recycled water and biosolids regulation, 2018. Table A2 for Microbiological Parameters.

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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Microbiology Test Report

Customer Details

Report No. WA-R-L-2007-13152

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2007-01966	Sample No.	: WA-S-L-2007-12713
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	: Irrigation Tank 1
Sampling Point	: Near Pump Room Gate 1	Preservation	: Not Applicable
Sample Description	: Irrigation 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	23CFU/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	400	--
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	10	--

Note : Not Detected =<10CFU/100ml

Limit based on RSB Abu Dhabi Recycled water and biosolids regulation, 2018. Table A2 for Microbiological Parameters.

Remarks :The tested results of the sample are found to be satisfactory within the available 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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Legionella Test Report

Customer Details

Report No. WA-R-L-2007-13151

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2007-01966	Sample No.	: WA-S-L-2007-12713
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	: Irrigation Tank 1
Sampling Point	: Near Pump Room Gate 1	Preservation	: Not Applicable
Sample Description	: Irrigation Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/ml	Not Detected	100CFU or MPN/ml

Note : Limit of Detection=<10CFU/ml

Procedure: WSOP-MB-0051. Dilution, Heat Treatment, Acid Treatment followed by Plating on GVPC/MWY Agar.

Limit based on RSB Abu Dhabi Recycled water and biosolids regulation, 2018. Table A2 for Microbiological Parameters.

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.

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Microbiology Test Report

Customer Details

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

Crystalline Cleaning & Environmental Services

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



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=<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.



Microbiology Test Report

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

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Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2007-13149

Crystalline Cleaning & Environmental Services

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



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

Senior Microbiologist

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Microbiology Test Report

Customer Details

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

Crystalline Cleaning & Environmental Services

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



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=<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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Legionella Test Report

Customer Details

Report No. WA-R-L-2007-13147

Crystalline Cleaning & Environmental Services

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



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



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Senior Microbiologist

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