



Legionella Test Report

Customer Details

Report No. WA-R-L-2006-12452

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12026
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: BS 7592
Temperature °C	: 32.3°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: MF2
Sampling Point	: Groundfloor - Sprinkler Outlet 3	Preservation	: 10°C
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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Legionella Test Report

Customer Details

Report No. WA-R-L-2006-12451

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12025
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: BS 7592
Temperature °C	: 28.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Center Courtyard
Sampling Point	: Groundfloor - Sprinkler Outlet 2	Preservation	: 10°C
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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Legionella Test Report

Customer Details

Report No. WA-R-L-2006-12450

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12024
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: BS 7592
Temperature °C	: 30.6°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: FF2
Sampling Point	: Groundfloor - Sprinkler Outlet 1	Preservation	: 10°C
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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Legionella Test Report

Customer Details

Report No. WA-R-L-2006-12449

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12023
Sampling Date	: 25/06/2020	Report Date.	: 6/7/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 5/7/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: BS 7592
Temperature °C	: 29.3°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 Building
Sampling Point	: Irrigation water tank	Preservation	: 10°C
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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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2006-12442

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12016
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: APHA 9060 A&B
Temperature °C	: 32.3°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: MF2
Sampling Point	: Groundfloor - Sprinkler Outlet 3	Preservation	: 4-8°C
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	350	--
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 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-2006-12442

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Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2006-12441

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12015
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: APHA 9060 A&B
Temperature °C	: 28.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Center Courtyard
Sampling Point	: Groundfloor - Sprinkler Outlet 2	Preservation	: 4-8°C
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	20	--

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 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-2006-12441

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2006-12440

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12014
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30.6°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: FF2
Sampling Point	: Groundfloor - Sprinkler Outlet 1	Preservation	: 4-8°C
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 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-2006-12440

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-2006-12439

Crystalline Cleaning & Environmental Services

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



Request No.	: WA-Q-L-2006-01896	Sample No.	: WA-S-L-2006-12013
Sampling Date	: 25/06/2020	Report Date.	: 29/6/2020
Analysis Start Date.	: 25/06/2020	Analysis End Date.	: 28/6/2020
Sample Location.	: Zayed University	Sampled By	: Jameel
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 1047	Sampling Method	: APHA 9060 A&B
Temperature °C	: 29.3°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 Building
Sampling Point	: Irrigation water tank	Preservation	: 4-8°C
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	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 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-2006-12439

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist

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