



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-2009-19669



Request No. : WA-Q-L-2009-02940

Sample No. : WA-S-L-2009-18886

Sampling Date	: 12/09/2020	Report Date.	: 16/09/2020
Analysis Start Date.	: 12/09/2020	Analysis End Date.	: 15/09/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1794	Sampling Method	: APHA 9060 A&B
Temperature °C	: 37	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Irrigation Water Tank (Underground)
Sampling Point	: SV1	Preservation	: 4-8°C
Sample Description	: 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 aeroginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<10CFU/100ml

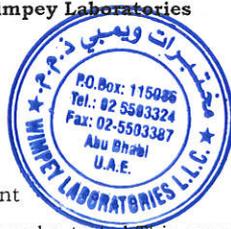
Limit based on RSB Abu Dhabi Recycled water and biosolids regulation, 2018. Table A2 for Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
HS	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

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2009-19672



Request No. : WA-Q-L-2009-02940

Sample No. : WA-S-L-2009-18889

Sampling Date	: 12/09/2020	Report Date.	: 16/09/2020
Analysis Start Date.	: 12/09/2020	Analysis End Date.	: 15/09/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1794	Sampling Method	: APHA 9060 A&B
Temperature °C	: 35	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Irrigation Water Tank Garden (Misting System)
Sampling Point	: MF2	Preservation	: 4-8°C
Sample Description	: 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	420	-
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected= \leq 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
HS	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



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Microbiology Test Report

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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2009-19671



Request No. : WA-Q-L-2009-02940

Sample No. : WA-S-L-2009-18888

Sampling Date	: 12/09/2020	Report Date.	: 16/09/2020
Analysis Start Date.	: 12/09/2020	Analysis End Date.	: 15/09/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1794	Sampling Method	: APHA 9060 A&B
Temperature °C	: 36	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Irrigation Water Tank Garden (Misting System)
Sampling Point	: Courtyard Female Side	Preservation	: 4-8°C
Sample Description	: 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	380	-
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

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
HS	SM	None

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

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Head of Microbiology Department

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

Report No. WA-R-L-2009-19670



Request No. : WA-Q-L-2009-02940

Sample No. : WA-S-L-2009-18887

Sampling Date	: 12/09/2020	Report Date.	: 16/09/2020
Analysis Start Date.	: 12/09/2020	Analysis End Date.	: 15/09/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1794	Sampling Method	: APHA 9060 A&B
Temperature °C	: 33	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Irrigation Water Tank
			Garden (Misting System)
Sampling Point	: FF2	Preservation	: 4-8°C
Sample Description	: 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 aeroginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

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
HS	SM	None

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

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Dr. Suresh Murugan Ph.D
Head of Microbiology Department

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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-2009-19686



Request No. : WA-Q-L-2009-02940

Sample No. : WA-S-L-2009-18903

Sampling Date	: 12/09/2020	Report Date.	: 22/09/2020
Analysis Start Date.	: 12/09/2020	Analysis End Date.	: 22/09/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1794	Sampling Method	: BS 7592
Temperature °C	: 35	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Irrigation Water Tank Garden (Misting System)
Sampling Point	: MF2	Preservation	: 10°C
Sample Description	: 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 limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories



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Head of Microbiology Department

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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-2009-19685



Request No. : WA-Q-L-2009-02940

Sample No. : WA-S-L-2009-18902

Sampling Date	: 12/09/2020	Report Date.	: 22/09/2020
Analysis Start Date.	: 12/09/2020	Analysis End Date.	: 22/09/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1794	Sampling Method	: BS 7592
Temperature °C	: 36	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Irrigation Water Tank Garden (Misting System)
Sampling Point	: Courtyard Female Side	Preservation	: 10°C
Sample Description	: 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 limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories



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

Report No. WA-R-L-2009-19684



Request No. : WA-Q-L-2009-02940

Sample No. : WA-S-L-2009-18901

Sampling Date	: 12/09/2020	Report Date.	: 22/09/2020
Analysis Start Date.	: 12/09/2020	Analysis End Date.	: 22/09/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1794	Sampling Method	: BS 7592
Temperature °C	: 33	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Irrigation Water Tank
			Garden (Misting System)
Sampling Point	: FF2	Preservation	: 10°C
Sample Description	: 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 limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

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

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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-2009-19683



Request No. : WA-Q-L-2009-02940

Sample No. : WA-S-L-2009-18900

Sampling Date	: 12/09/2020	Report Date.	: 22/09/2020
Analysis Start Date.	: 12/09/2020	Analysis End Date.	: 22/09/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 1794	Sampling Method	: BS 7592
Temperature °C	: 37	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Irrigation Water Tank (Underground)
Sampling Point	: SV1	Preservation	: 10°C
Sample Description	: 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 limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

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

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