



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-2101-33318



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32854

Sampling Date	: 23/01/2021	Report Date.	: 26/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 25/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3657	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Podium Level 3 Pump Room Water Tank 1
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	sampler ref. no.	: 17

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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



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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-2101-33330



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32866

Sampling Date	: 23/01/2021	Report Date.	: 27/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 26/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3658	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Level 31 Water Tank 1
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	sampler ref. no.	: 29

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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



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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-2101-33356



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32892

Sampling Date	: 23/01/2021	Report Date.	: 02/02/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 02/02/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3657	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Podium Level 3 Pump Room Water Tank 1
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	sampler ref. no.	: 17

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

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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



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Legionella Test Report

Customer Details

Report No. : WA-R-L-2101-33369

Crystalline Cleaning & Environmental Services

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



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32905

Sampling Date	: 23/01/2021	Report Date.	: 02/02/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 02/02/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3658	Sampling Method	: APHA 9060 A&B
Temperature °C	: 24	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Level 31 Water Tank 2
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	sampler ref. no.	: 30

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

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

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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-2101-33370



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32906

Sampling Date	: 23/01/2021	Report Date.	: 02/02/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 02/02/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3658	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Level 31 Water Tank 3
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	sampler ref. no.	: 31

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

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

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Legionella Test Report

Customer Details

Report No. WA-R-L-2101-33368

Crystalline Cleaning & Environmental Services

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



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32904

Sampling Date	: 23/01/2021	Report Date.	: 02/02/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 02/02/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3658	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Level 31 Water Tank 1
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	sampler ref. no.	: 29

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

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

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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-2101-33371



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32907

Sampling Date	: 23/01/2021	Report Date.	: 02/02/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 02/02/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3658	Sampling Method	: APHA 9060 A&B
Temperature °C	: 24	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Level 31 Waste Room
Sampling Point	: Tap Water	Preservation	: 4-8°C
Sample Description	: Water	sampler ref. no.	: 32

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

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

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Head of Microbiology Department



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CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	Rihan Heights		
Sample Location	Tower A Level-P3 Pump Room	Visit Date:	23-01-2021
Sample Point	Water Tank	Sampled By	Crystalline Rep

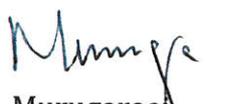
PORTABLE WATER ANALYSIS

	Parameters	Control Limits	Results
1	pH at 25°C	7.0 - 9.2	8.73
2	Conductivity at 25°C, µs/cm	----	246
3	Total Dissolved Solids (TDS)	Max 1000	159
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	64
7	Total Hardness at 25°C	300	68
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	49
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Calcium hardness and Total Hardness levels are satisfactory.
3	All inorganic parameters are within the control limit.

Reported By


Murugaraa
Service Engineer





CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	Rihan Heights		
Sample Location	Tower A Level-31	Visit Date:	23-01-2021
Sample Point	Water Tank # 01	Sampled By	Crystalline Rep

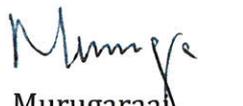
PORTABLE WATER ANALYSIS

	Parameter	Control Limits	Results
1	pH at 25°C	7.0 - 9.2	8.57
2	Conductivity at 25°C, μ s/cm	----	241
3	Total Dissolved Solids (TDS)	Max 1000	156
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	59
7	Total Hardness at 25°C	300	63
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	39
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Calcium hardness and Total Hardness levels are satisfactory.
3	All inorganic parameters are within the control limit.

Reported By


Murugaraa
Service Engineer





CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	Rihan Heights		
Sample Location	Tower A Level-31	Visit Date:	23-01-2021
Sample Point	Water Tank # 02	Sampled By	Crystalline Rep

PORTABLE WATER ANALYSIS

	Parameter	Control Limits	Results
1	pH at 25°C	7.0 - 9.2	8.52
2	Conductivity at 25°C, µs/cm	----	263
3	Total Dissolved Solids (TDS)	Max 1000	170
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	62
7	Total Hardness at 25°C	300	67
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	49
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Calcium hardness and Total Hardness levels are satisfactory.
3	All inorganic parameters are within the control limit.

Reported By


Murugaraa
Service Engineer





CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	Rihan Heights		
Sample Location	Tower A Level-31	Visit Date:	23-01-2021
Sample Point	Water Tank # 03	Sampled By	Crystalline Rep

PORTABLE WATER ANALYSIS

	Parameter	Control Limits	Results
1	pH at 25°C	7.0 - 9.2	8.54
2	Conductivity at 25°C, μ s/cm	----	252
3	Total Dissolved Solids (TDS)	Max 1000	163
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	64
7	Total Hardness at 25°C	300	71
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	36
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Calcium hardness and Total Hardness levels are satisfactory.
3	All inorganic parameters are within the control limit.

Reported By



Murugaraaj
Service Engineer





CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	Rihan Heights		
Sample Location	Tower A Level-31	Visit Date:	23-01-2021
Sample Point	Waste Room - Tap Water	Sampled By	Crystalline Rep

PORTABLE WATER ANALYSIS

	Parameter	Control Limits	Results
1	pH at 25°C	7.0 - 9.2	8.69
2	Conductivity at 25°C, μ s/cm	----	248
3	Total Dissolved Solids (TDS)	Max 1000	161
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	57
7	Total Hardness at 25°C	300	64
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	48
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Calcium hardness and Total Hardness levels are satisfactory.
3	All inorganic parameters are within the control limit.

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW