



Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9695



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9485
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 37.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor - Main Water Tank
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



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Microbiology Test Report

Report No. : WA-R-L-2005-9695

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-2005-9696

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9486
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 36.6	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Loor - Filter Water Tank #01
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2005-9696

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2005-9697

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9487
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 36.5	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Loor - Filter Water Tank #02
Sampling Point	: Tank	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



Microbiology Test Report

Report No. : WA-R-L-2005-9697

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Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9684



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9474
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 22.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Pantry - Cold Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



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Microbiology Test Report

Report No. : WA-R-L-2005-9684

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9686



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9476
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Kitchen - Cold Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9688



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9478
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 22.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor - Male Washroom - Cold Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2005-9688

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-2005-9690

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9480
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 24	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor - Male Washroom - Cold Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2005-9690

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2005-9685

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9475
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 39.3	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Pantry - Hot Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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/100m	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
SM	SM	None

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



Microbiology Test Report

Report No. : WA-R-L-2005-9685

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Dr. Suresh Murugan Ph.D

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9687



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9477
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 22/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 41.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor Kitchen - Hot Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2005-9687

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9689



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9479
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 40.2	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor - Male Washroom - Hot Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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
SM	SM	None

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



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2005-9689

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9691



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9481
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 37.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Mezzanine Floor - Male Washroom - Hot Water
Sampling Point	: Water Tap	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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/100m	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
SM	SM	None

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



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POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	20-05-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Ground Floor -Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.38
2	Conductivity at 25°C, µs/cm	----	245
3	Total Dissolved Solids (TDS)	Max 1000	159
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.16
7	Calcium Hardness at 25°C	200	56
8	Total Hardness at 25°C	300	65

Inorganic Chemical Parameters

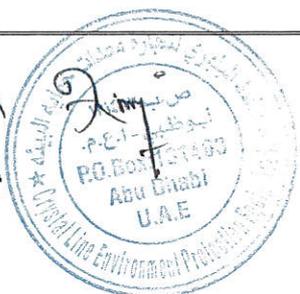
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	55
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,
Murugaraaj
Murugaraaj
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	20-05-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Ground Floor Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.33
2	Conductivity at 25°C, µs/cm	----	241
3	Total Dissolved Solids (TDS)	Max 1000	156
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.13
7	Calcium Hardness at 25°C	200	53
8	Total Hardness at 25°C	300	68

Inorganic Chemical Parameters

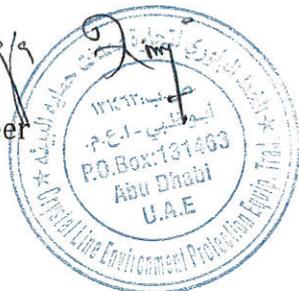
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	46
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,
Murugaraaj
Murugaraaj
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	20-05-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Ground Floor Wash Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.24
2	Conductivity at 25°C, µs/cm	----	234
3	Total Dissolved Solids (TDS)	Max 1000	152
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.16
7	Calcium Hardness at 25°C	200	56
8	Total Hardness at 25°C	300	64

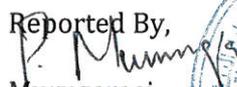
Inorganic Chemical Parameters

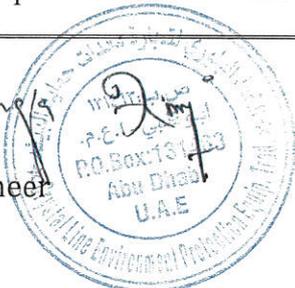
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	44
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,

 Murugaraaj
 Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	20-05-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Cold Outlet)	Sample Point	Mezzanine Floor Wash Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.41
2	Conductivity at 25°C, µs/cm	----	252
3	Total Dissolved Solids (TDS)	Max 1000	163
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.19
7	Calcium Hardness at 25°C	200	55
8	Total Hardness at 25°C	300	61

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	47
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

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,

 Murugaraaj
 Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	20-05-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Ground Floor Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.11
2	Conductivity at 25°C, µs/cm	----	221
3	Total Dissolved Solids (TDS)	Max 1000	143
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	<0.03
7	Calcium Hardness at 25°C	200	43
8	Total Hardness at 25°C	300	49

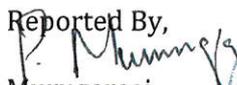
Inorganic Chemical Parameters

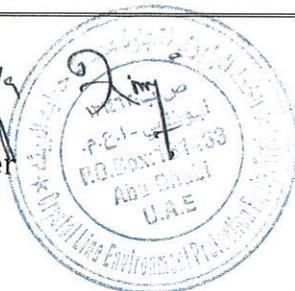
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	41
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level with in the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,

 Murugaraaj
 Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	20-05-2020
Sampled By	Crystalline Rep	Location	ADIA - BRC
Sample Type	Potable Water (Hot Outlet)	Sample Point	Ground Floor Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.16
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	232
3	Total Dissolved Solids (TDS)	Max 1000	150
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	<0.04
7	Calcium Hardness at 25°C	200	46
8	Total Hardness at 25°C	300	54

Inorganic Chemical Parameter

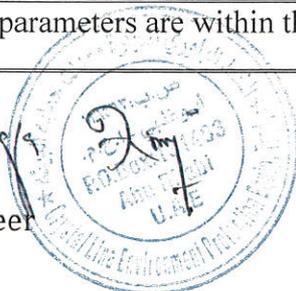
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	45
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

*** All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is low, kindly maintain the level within the control limit
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,
P. Murugaraaj
Murugaraaj
Service Engineer





Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9692



Request No.	: WA-Q-L-2005-1513	Sample No.	: WA-S-L-2005-9482
Sampling Date/time	: 20/5/2020 , 13:56	Report Date.	: 26/5/2020
Analysis Start Date.	: 20/5/2020	Analysis End Date.	: 23/5/2020
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) - Business Recovery Center	Sampled By	: Shoukth
Sample Identification	: Not Given	Sample Submitted as	: N/A
Sample Certificate No	: 0819	Sampling Method	: APHA 9060 A & B
Temperature °C	: 9.1	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Ground Floor - Chiller Yard
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Water	Client Reference	: Not Applicable

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	--
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
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=<1CFU

Limit based on DM.Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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-Campden Chorleywood Food Research Association.



Microbiology Test Report

Report No. : WA-R-L-2005-9692

05-9694

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Senior Microbiologist

Test results relate only to the samples tested.
This report shall not be reproduced except in full, without the written approval of the Laboratory.
This is a LIMS software generated document with E Signature.

Form No: WARF-MB-01 Issue No.:01 Rev No:00 Issued Date:22-01-2020

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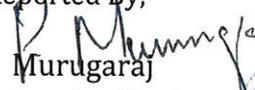
CHILLED WATER ANALYSIS REPORT

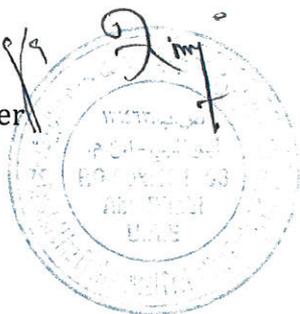
Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	20-05-2020
Sampled By	Crystalline Rep	Sample Location	ADIA -BRC
Sample Type	Chilled Water	Sample Point	G-Floor Chilled Water

TEST RESULT			
No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.03
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	Max 3500	3047
3	TDS, ppm	---	1980
4	Iron, ppm as Fe	0 - 2.0	0.06
5	Nitrite, ppm.	>800	1240
6	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"> pH Levels are satisfactory – No action recommended. Nitrite Levels are satisfactory – No action recommended.

Reported By,

 Murugara
 Service Engineer





CHILLED WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	20-05-2020
Sampled By	Crystalline Rep	Sample Location	ADIA -BRC
Sample Type	Chilled Water	Sample Point	M-Floor Chilled Water

TEST RESULT

No	PARAMETER	CONTROL LIMITS	TEST RESULTS
1	pH at 25°C	9.0 - 10.5	10.36
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	Max 3500	3246
3	TDS, ppm	---	2109
4	Iron, ppm as Fe	0 - 2.0	0.19
5	Nitrite, ppm.	>800	1320
6	Dip slide	<10 ³	ND

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

COMMENTS AND RECOMMENDATIONS

- pH Levels are satisfactory - No action recommended.
- Nitrite Levels are satisfactory - No action recommended.

Reported By,

Murugara
Service Engineer

