



Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5206

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5113
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 21/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 19/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0140	Sampling Method	: APHA 9060 A&B
Temperature °C	: 39.9°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Basement 3 - Mess Hall
Sampling Point	: Hot Water Outlet	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	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
JY	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
Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5222

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5129
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 21/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 19/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0140	Sampling Method	: APHA 9060 A&B
Temperature °C	: 36.9°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Groundfloor
Sampling Point	: Calorifier 01	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	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
JY	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
Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5224

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5131
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 21/3/2020
Analysis Start Date	: 16/3/2020	Analysis End Date.	: 19/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0140	Sampling Method	: APHA 9060 A&B
Temperature °C	: 38.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Groundfloor
Sampling Point	: Calorifier 02	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B.H&I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms*	APHA 9222 B	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected= \leq 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
JY	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
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Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5226

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5133
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 21/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 19/3/2020
Sample Location.	: ADIA (Abu Dhabi investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0140	Sampling Method	: APHA 9060 A&B
Temperature °C	: 38.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Groundfloor
Sampling Point	: Calorifier 03	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 E,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected = 0CFU

Limits based on RSE 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
JY	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

Senior Microbiologist

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2003-5230



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5137
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 21/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 19/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0141	Sampling Method	: APHA 9060 A&B
Temperature °C	: 40.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Level 01 - Drivers Room
Sampling Point	: Hot Water Outlet	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	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
JY	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

Customer Details

Report No. WA-R-L-2003-5238

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5145
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 21/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 19/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0141	Sampling Method	: APHA 9060 A&B
Temperature °C	: 25.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Level 06 - Health Club Pantry
Sampling Point	: Hot Water Outlet	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	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
JY	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
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Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5244

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5151
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 21/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 19/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0141	Sampling Method	: APHA 9060 A&B
Temperature °C	: 38.6°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Level 06 - Health Club Male Shower Room
Sampling Point	: Hot Outlet	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	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
JY	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

Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5248

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5155
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 21/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 19/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0141	Sampling Method	: APHA 9060 A&B
Temperature °C	: 40.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Level 06 - Health Club Female Shower Room
Sampling Point	: Hot Outlet	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	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
JY	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

Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5207

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5114
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 26/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 26/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0140	Sampling Method	: BS 7592
Temperature °C	: 39.9°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Basement 3 - Mess Hall
Sampling Point	: Hot Water Outlet	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	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
Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5223

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5130
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 26/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 26/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0140	Sampling Method	: BS 7592
Temperature °C	: 36.9°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Groundfloor
Sampling Point	: Calorifier 01	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	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
Senior Microbiologist



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Legionella Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2003-5225



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5132
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 26/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 26/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0140	Sampling Method	: BS 7592
Temperature °C	: 38.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Groundfloor
Sampling Point	: Calorifier 02	Preservation	: 10°C
Sample Description	: Water		

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

Note : Limit of Detection= \leq 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
JY	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
Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5227

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5134
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 26/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 26/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0140	Sampling Method	: BS 7592
Temperature °C	: 38.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Groundfloor
Sampling Point	: Calorifier 03	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	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
Senior Microbiologist



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Legionella Test Report

Report No. WA-R-L-2003-5231

Customer Details

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5138
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 26/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 26/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0141	Sampling Method	: BS 7592
Temperature °C	: 40.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Level 01 - Drivers Room
Sampling Point	: Hot Water Outlet	Preservation	: 10°C
Sample Description	: Water		

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

Note : Limit of Detection= \leq 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
JY	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
Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5239

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5146
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 26/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 26/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0141	Sampling Method	: BS 7592
Temperature °C	: 25.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Level 06- Health club Pantry
Sampling Point	: Hot Water Outlet	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	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

Senior Microbiologist

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Legionella Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2003-5245



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5152
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 26/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 26/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0141	Sampling Method	: BS 7592
Temperature °C	: 38.6°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Level 06 - Health Club Male Shower Room
Sampling Point	: Hot Outlet	Preservation	: 10°C
Sample Description	: Water		

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

Note : Limit of Detection= \leq 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
JY	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

Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5249

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0877	Sample No.	: WA-S-L-2003-5156
Sampling Date/time	: 16/3/2020 , 19:05	Report Date.	: 26/3/2020
Analysis Start Date.	: 16/3/2020	Analysis End Date.	: 26/3/2020
Sample Location.	: ADIA (Abu Dhabi Investment Authorities) - Car Parking	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0141	Sampling Method	: BS 7592
Temperature °C	: 40.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Level 06 - Health Club Female Shower Room
Sampling Point	: Hot Outlet	Preservation	: 10°C
Sample Description	: Water		

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

Note : Limit of Detection= \leq 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
JY	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

Senior Microbiologist



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Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5123

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0872	Sample No.	: WA-S-L-2003-5031
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 21/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 18/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: APHA 9060 A&B
Temperature °C	: 45.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Calorifier - 04
Sampling Point	: Lower Groundfloor	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B	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
JY	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Senior Microbiologist



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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2003-5124



Request No.	: WA-Q-L-2003-0872	Sample No.	: WA-S-L-2003-5032
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 21/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 18/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: APHA 9060 A&B
Temperature °C	: 44.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Calorifier - 05
Sampling Point	: Lower Groundfloor	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B	CFU/100ml	Not Detected	--

Note : Not Detected=<1CFU

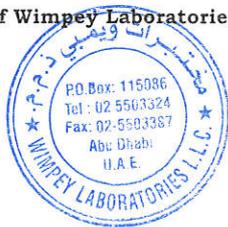
Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested result of the sample is found to be satisfactory within the specified limit.

Analyst	Reviewed By	Method Variation
JY	SM	None

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

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-2003-5126

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0872	Sample No.	: WA-S-L-2003-5034
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 21/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 18/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: APHA 9060 A&B
Temperature °C	: 39.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Kitchen Tap Hot Water Outlet
Sampling Point	: Mezzanine Floor	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

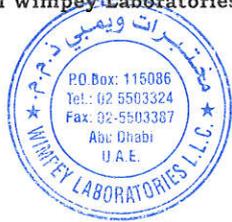
Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested result of the sample is found to be satisfactory within the specified limit.

Analyst	Reviewed By	Method Variation
JY	SM	None

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

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2003-5129



Request No.	: WA-Q-L-2003-0872	Sample No.	: WA-S-L-2003-5037
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 21/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 18/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: APHA 9060 A&B
Temperature °C	: 39.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wing A, Pantry Hot Tap Water
Sampling Point	: 16th Floor	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	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 result of the sample is found to be satisfactory within the specified limit.

Analyst	Reviewed By	Method Variation
JY	SM	None

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

Signed for and on behalf of Wimpey Laboratories



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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5132

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0872	Sample No.	: WA-S-L-2003-5040
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 21/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 18/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: APHA 9060 A&B
Temperature °C	: 38.2	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wing B, Pantry Hot Tap Water
Sampling Point	: 31st Floor	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

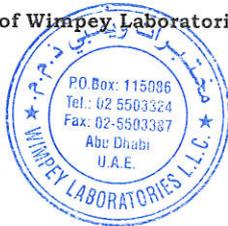
Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested result of the sample is found to be satisfactory within the specified limit.

Analyst	Reviewed By	Method Variation
JY	SM	None

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

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Senior Microbiologist

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2003-5139



Request No.	: WA-Q-L-2003-0872	Sample No.	: WA-S-L-2003-5047
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 21/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 18/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0139	Sampling Method	: APHA 9060 A&B
Temperature °C	: 38.6	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wing A, Shower Room Hot Water Outlet
Sampling Point	: 36th Floor	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B	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 result of the sample is found to be satisfactory within the specified limit.

Analyst	Reviewed By	Method Variation
JY	SM	None

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

Signed for and on behalf of Wimpey Laboratories



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Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2003-5122

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0872	Sample No.	: WA-S-L-2003-5030
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 21/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 18/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: APHA 9060 A&B
Temperature °C	: 38.5	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Shower Hot Water Outlet
Sampling Point	: Basement	Preservation	: 4-8°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I	CFU/100ml	Not Detected	---
Faecal Coliforms	APHA 9222 D	CFU/100ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B	CFU/ml	Not Detected	500CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B	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
JY	SM	None

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

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-2003-5146

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0873	Sample No.	: WA-S-L-2003-5054
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 25/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 25/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: BS 7592
Temperature °C	: 45.4	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Calorifier - 04
Sampling Point	: Lower Ground Floor	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	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

Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5147

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0873	Sample No.	: WA-S-L-2003-5055
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 25/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 25/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: BS 7592
Temperature °C	: 44.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Calorifier - 05
Sampling Point	: Lower Ground Floor	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	SM	None

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

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Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5149

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0873	Sample No.	: WA-S-L-2003-5057
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 25/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 25/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: BS 7592
Temperature °C	: 39.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Kitchen Tap Hot Water Outlet
Sampling Point	: Mezzanine Floor	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	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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Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5152

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0873	Sample No.	: WA-S-L-2003-5060
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 25/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 25/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: BS 7592
Temperature °C	: 39.9	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wing A, Pantry Hot Tap Water
Sampling Point	: 16th Floor	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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.

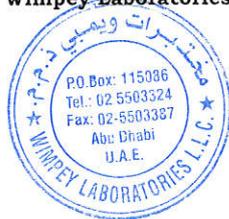
Analyst	Reviewed By	Method Variation
JY	SM	None

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

Senior Microbiologist



Test results relate only to the samples tested.

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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5155

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0873	Sample No.	: WA-S-L-2003-5063
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 25/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 25/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: BS 7592
Temperature °C	: 38.2	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wing B, Pantry Hot Tap Water
Sampling Point	: 31st Floor	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	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

Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2003-5162

Crystalline Environmental Services



Request No.	: WA-Q-L-2003-0873	Sample No.	: WA-S-L-2003-5070
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 25/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 25/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0139	Sampling Method	: BS 7592
Temperature °C	: 38.6	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wing A, Shower Room Hot Water Outlet
Sampling Point	: 36th Floor	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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
JY	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

Senior Microbiologist



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Legionella Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2003-5145



Request No.	: WA-Q-L-2003-0873	Sample No.	: WA-S-L-2003-5053
Sampling Date/time	: 15/3/2020 , 20:10	Report Date.	: 25/3/2020
Analysis Start Date.	: 15/3/2020	Analysis End Date.	: 25/3/2020
Sample Location.	: ADIA-Abu Dhabi Investment Authorities, Head Quarters	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0138	Sampling Method	: BS 7592
Temperature °C	: 38.5	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Shower Hot Water Outlet
Sampling Point	: Basement	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731	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 limits.

Analyst	Reviewed By	Method Variation
JY	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

Senior Microbiologist



Test results relate only to the samples tested.

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POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-03-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	Basement Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.89
2	Conductivity at 25°C, µs/cm	----	194
3	Total Dissolved Solids (TDS)	Max 1000	126
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	41
8	Total Hardness at 25°C	300	49

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

*** 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:	15-03-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	HQ Mezzanine Floor Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.32
2	Conductivity at 25°C, $\mu\text{s/cm}$	----	208
3	Total Dissolved Solids (TDS)	Max 1000	135
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	49
8	Total Hardness at 25°C	300	57

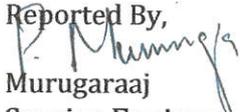
Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	43
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 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:	15-03-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	LG- Calorifier # 04

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.09
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	210
3	Total Dissolved Solids (TDS)	Max 1000	136
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	46
8	Total Hardness at 25°C	300	58

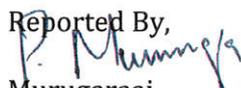
Inorganic Chemical Parameters

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 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:	15-03-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	LG- Calorifier # 05

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.03
2	Conductivity at 25°C, µs/cm	----	213
3	Total Dissolved Solids (TDS)	Max 1000	138
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	49
8	Total Hardness at 25°C	300	57

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
Murugaraaj
Service Engineer



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-03-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	Wing 16A pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.94
2	Conductivity at 25°C, µs/cm	----	189
3	Total Dissolved Solids (TDS)	Max 1000	123
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	46
8	Total Hardness at 25°C	300	51

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	38
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:	15-03-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	Wing 31B pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.23
2	Conductivity at 25°C, µs/cm	----	209
3	Total Dissolved Solids (TDS)	Max 1000	136
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

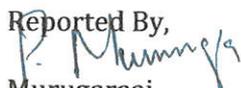
Inorganic Chemical Parameters

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:	15-03-2020
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	L 36 Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.12
2	Conductivity at 25°C, µs/cm	----	232
3	Total Dissolved Solids (TDS)	Max 1000	151
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	49
8	Total Hardness at 25°C	300	53

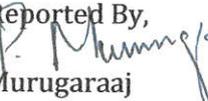
Inorganic Chemical Parameters

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
Service Engineer



CLEANER WATER GREENER TOMORROW

POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	16-03-2020
Sampled By	Crystalline Rep	Location	ADIA - Car Parking
Sample Type	Potable Water (Hot Outlet)	Sample Point	B3 - Mess Hall

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.12
2	Conductivity at 25°C, µs/cm	----	232
3	Total Dissolved Solids (TDS)	Max 1000	151
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	46
8	Total Hardness at 25°C	300	49

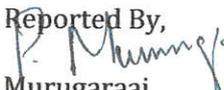
Inorganic Chemical Parameters

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



CLEANER WATER GREENER TOMORROW



POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST

Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	16-03-2020
Sampled By	Crystalline Rep	Location	ADIA - Car Parking
Sample Type	Potable Water (Hot Outlet)	Sample Point	L1- Driver Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.16
2	Conductivity at 25°C, µs/cm	----	219
3	Total Dissolved Solids (TDS)	Max 1000	142
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	42
8	Total Hardness at 25°C	300	49

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	33
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:	16-03-2020
Sampled By	Crystalline Rep	Location	ADIA - Car Parking
Sample Type	Potable Water (Hot Outlet)	Sample Point	Health Club- Male Shower

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.87
2	Conductivity at 25°C, µs/cm	----	189
3	Total Dissolved Solids (TDS)	Max 1000	123
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	49
8	Total Hardness at 25°C	300	54

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

*** 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:	16-03-2020
Sampled By	Crystalline Rep	Location	ADIA - Car Parking
Sample Type	Potable Water (Hot Outlet)	Sample Point	Health Club-Female Shower

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	7.64
2	Conductivity at 25°C, µs/cm	----	194
3	Total Dissolved Solids (TDS)	Max 1000	126
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	48
8	Total Hardness at 25°C	300	51

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	40
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

