



Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9427



Request No.	: WA-Q-L-2005-1485	Sample No.	: WA-S-L-2005-9218
Sampling Date/time	: 18/5/2020 , 12:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0903	Sampling Method	: APHA 9060 A & B
Temperature °C	: 24.3	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Hydrothetrapy Pool
Sampling Point	: P1-Hydrothetrapy Pool	Sample Description	: Water

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/100ml*
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

*Limit based on HAAD/HED/ST/0012/HS_EHSMS, Department of Health Abu Dhabi, water quality version 1.0

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
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist



Test results relate only to the samples tested.

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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9428



Request No.	: WA-Q-L-2005-1485	Sample No.	: WA-S-L-2005-9219
Sampling Date/time	: 18/5/2020 , 12:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0903	Sampling Method	: APHA 9060 A & B
Temperature °C	: 25.9	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Cooling Tower
Sampling Point	: L-4 Cooling Tower-1	Sample Description	: Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
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
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Senior Microbiologist



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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9429



Request No.	: WA-Q-L-2005-1485	Sample No.	: WA-S-L-2005-9220
Sampling Date/time	: 18/5/2020 , 12:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0904	Sampling Method	: APHA 9060 A & B
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Cooling Tower
Sampling Point	: L-4 Cooling Tower-2	Sample Description	: Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
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
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Senior Microbiologist



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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9430



Request No.	: WA-Q-L-2005-1485	Sample No.	: WA-S-L-2005-9221
Sampling Date/time	: 18/5/2020 , 12:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0904	Sampling Method	: APHA 9060 A & B
Temperature °C	: 26.3	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Cooling Tower
Sampling Point	: L-4 Cooling Tower-3	Sample Description	: Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
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
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Senior Microbiologist



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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9431



Request No.	: WA-Q-L-2005-1485	Sample No.	: WA-S-L-2005-9222
Sampling Date/time	: 18/5/2020 , 12:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0904	Sampling Method	: APHA 9060 A & B
Temperature °C	: 30.2	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Cooling Tower
Sampling Point	: L-4 Cooling Tower-4	Sample Description	: Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
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
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Senior Microbiologist



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Chemical Analysis Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9415



Request No.	: WA-Q-L-2005-1484	Sample No.	: WA-S-L-2005-9206
Sampling Date/time	: 18/5/2020 , 12:00	Report Date.	: 26/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 21/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0904	Sampling Method	: APHA 1060
Temperature °C	: 32	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Copper Silver Tank - 5
Sampling Point	: Water Tank	Sample Description	: Water

Parameters	Test Methods	Units	Results	Specification
Calcium Hardness as CaCO3	APHA 3500 Ca B 23rd Ed. 2017	mg/L	50	200
Chloride	APHA 4500 Cl-B 23rd Ed. 2017	mg/L	37	250
Conductivity @ 25°C	APHA 2510 B 23rd Ed. 2017	µS/cm	233	--
Copper	APHA 3120 B 23rd Ed. 2017	mg/L	<0.05	1.0
Iron	APHA 3120 B 23rd Ed. 2017	mg/L	<0.05	0.2
pH @25°C	APHA 4500 H+B 23rd Ed. 2017	--	8.0	7.0-9.2
Silver	APHA 3120 B 23rd Ed. 2017	mg/L	<0.05	--
Total Dissolved Solids(TDS)	APHA 2540 C 23rd Ed. 2017	mg/L	155	100-1000
Total Hardness as CaCO3	APHA 2340 C 23rd Ed. 2017	mg/L	62	300

Note : Limits based on The Water Quality Regulations(Fourth Edition), 2014, issued by The Regulation and Supervision Bureau for the water, wastewater and electricity sector in the Emirates of Abu Dhabi.

Specification limits indicates the maximum allowable value/range of values.

Remarks :The results of the tested parameters are found to be satisfactory with the specified limits.

Analyst	Reviewed By	Method Variation
RD	ST	None

Key Words :APHA- American Public Health Association, mg/L-Milligrams per liter, µS/cm-micro-Siemens per centimeter.



Chemical Analysis Report

Report No. : WA-R-L-2005-9415

Signed for and on behalf of Wimpey Laboratories

Dr. Sarah Titus Ph.D
Senior Chemist



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Chemical Analysis Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9414



Request No.	: WA-Q-L-2005-1484	Sample No.	: WA-S-L-2005-9205
Sampling Date/time	: 18/5/2020 , 12:00	Report Date.	: 26/5/2020
Analysis Start Date.	: 18/5/2020	Analysis End Date.	: 21/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 0903	Sampling Method	: APHA 1060
Temperature °C	: 22	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Copper Silver Tank - 6
Sampling Point	: Water Tank	Sample Description	: Water

Parameters	Test Methods	Units	Results	Specification
Calcium Hardness as CaCO ₃	APHA 3500 Ca B 23rd Ed. 2017	mg/L	50	200
Chloride	APHA 4500 Cl-B 23rd Ed. 2017	mg/L	37	250
Conductivity @ 25°C	APHA 2510 B 23rd Ed. 2017	µS/cm	233	--
Copper	APHA 3120 B 23rd Ed. 2017	mg/L	<0.05	1.0
Iron	APHA 3120 B 23rd Ed. 2017	mg/L	<0.05	0.2
pH @25°C	APHA 4500 H+B 23rd Ed. 2017	--	8.0	7.0-9.2
Silver	APHA 3120 B 23rd Ed. 2017	mg/L	<0.05	--
Total Dissolved Solids(TDS)	APHA 2540 C 23rd Ed. 2017	mg/L	154	100-1000
Total Hardness as CaCO ₃	APHA 2340 C 23rd Ed. 2017	mg/L	62	300

Note : Limits based on The Water Quality Regulations(Fourth Edition), 2014, issued by The Regulation and Supervision Bureau for the water, wastewater and electricity sector in the Emirates of Abu Dhabi.

Specification limits indicates the maximum allowable value/range of values.

Remarks :The results of the tested parameters are found to be satisfactory with the specified limits.

Analyst	Reviewed By	Method Variation
RD	ST	None

Key Words :APHA- American Public Health Association, mg/L-Milligrams per liter, µS/cm-micro-Siemens per centimeter.



Chemical Analysis Report

Report No. : WA-R-L-2005-9414

Signed for and on behalf of Wimpey Laboratories

Dr. Sarah Titus Ph.D

Senior Chemist

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