



Microbiology Test Report

Customer Details

Report No. WA-R-L-2005-9164

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1447	Sample No.	: WA-S-L-2005-8971
Sampling Date/time	: 14/5/2020 , 17:00	Report Date.	: 17/5/2020
Analysis Start Date.	: 14/5/2020	Analysis End Date.	: 16/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Cooling Tower-1
Sampling Point	: Not Given	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
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

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-2005-9165



Request No. : WA-Q-L-2005-1447 Sample No. : WA-S-L-2005-8972

Sampling Date/time	: 14/5/2020 , 17:00	Report Date.	: 17/5/2020
Analysis Start Date.	: 14/5/2020	Analysis End Date.	: 16/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Cooling Tower-2
Sampling Point	: Not Given	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
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-2005-9166

Crystalline Environmental Services



Request No. : WA-Q-L-2005-1447 Sample No. : WA-S-L-2005-8973

Sampling Date/time	: 14/5/2020 , 17:00	Report Date.	: 17/5/2020
Analysis Start Date.	: 14/5/2020	Analysis End Date.	: 16/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Cooling Tower-3
Sampling Point	: Not Given	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
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-2005-9167

Crystalline Environmental Services



Request No. : WA-Q-L-2005-1447 Sample No. : WA-S-L-2005-8974

Sampling Date/time	: 14/5/2020 , 17:00	Report Date.	: 17/5/2020
Analysis Start Date.	: 14/5/2020	Analysis End Date.	: 16/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: Cooling Tower-4
Sampling Point	: Not Given	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 aeroginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	--

Note : Not Detected=<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-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-2005-9168

Crystalline Environmental Services



Request No.	: WA-Q-L-2005-1447	Sample No.	: WA-S-L-2005-8975
Sampling Date/time	: 14/5/2020 , 17:00	Report Date.	: 17/5/2020
Analysis Start Date.	: 14/5/2020	Analysis End Date.	: 16/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Plastic Bottle	Source of Sample	: P1- Hydrotherapy Pool
Sampling Point	: Not Given	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 aeroginesa	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
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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Chemical Analysis Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-9203



Request No. : WA-Q-L-2005-1450 Sample No. : WA-S-L-2005-9000

Sampling Date/time	: 14/5/2020 , 15:39	Report Date.	: 26/5/2020
Analysis Start Date.	: 14/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Client
Sample Identification	: Not Given	Sample Certificate No	: Not Given
Sampling Method	: Not Given	Temperature °C	: Not Given
Site Observation	: Clear	Sampling Container	: Plastic Bottle
Source of Sample	: P2- Water Tank 6	Sampling Point	: Not Given
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Calcium Hardness as CaCO ₃	APHA 3500 Ca B 23rd Ed. 2017	mg/L	48	200
Chloride	APHA 4500 Cl-B 23rd Ed. 2017	mg/L	36	250
Conductivity @ 25°C	APHA 2510 B 23rd Ed. 2017	µS/cm	217	--
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	--	8.1	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	148	100-1000
Total Hardness as CaCO ₃	APHA 2340 C 23rd Ed. 2017	mg/L	60	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
RR	ST	None

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



Chemical Analysis Report

Report No. : WA-R-L-2005-9203

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-2005-9202



Request No.	: WA-Q-L-2005-1450	Sample No.	: WA-S-L-2005-8999
Sampling Date/time	: 14/5/2020 , 15:39	Report Date.	: 26/5/2020
Analysis Start Date.	: 14/5/2020	Analysis End Date.	: 20/5/2020
Sample Location.	: Health Point Hospital	Sampled By	: Client
Sample Identification	: Not Given	Sample Certificate No	: Not Given
Sampling Method	: Not Given	Temperature °C	: Not Given
Site Observation	: Clear	Sampling Container	: Plastic Bottle
Source of Sample	: P2- Water Tank 5	Sampling Point	: Not Given
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	219	--
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	--	8.1	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	151	100-1000
Total Hardness as CaCO ₃	APHA 2340 C 23rd Ed. 2017	mg/L	60	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
RR	ST	None

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



Chemical Analysis Report

Report No. : WA-R-L-2005-9202

Signed for and on behalf of Wimpey Laboratories

Dr. Sarah Titus Ph.D

Senior Chemist

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