

**TEST REPORT**

Report No: QMTL/R-93123/2020

<b>CLIENT</b> : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN</b> : MR. JASMAN PINTO	Sample ID	QMTL/S-93123	
	Date Received	11 Feb 2020	
	Date(s) Tested	11 Feb 2020 - 13 Feb 2020	
	Date Reported	22 Feb 2020	
Sample Description	Cooling Tower 1		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	AUH	Sampling Date/Time	11.02.2020/12:25 PM
Sample Container	1x500ml PB	Sampling Point	Sink
Sample Receipt Temp	5°C	Sample Onsite Temp	19.5°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	HEALTHPOINT HOSPITAL		

**TEST RESULTS**

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	280
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero
Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.			

Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable
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Test method deviation	None
Test performed by Emp#	74 & 55
Report prepared by Emp#	22
The above test results are only applicable to the sample(s) referred above.	

Reported By



**ANILA GEORGE**  
LABORATORY MANAGER



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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-93124/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-93124	
	Date Received	11 Feb 2020	
	Date(s) Tested	11 Feb 2020 - 13 Feb 2020	
	Date Reported	22 Feb 2020	
ATTN : MR. JASMAN PINTO			
Sample Description	Cooling Tower 2		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	AUH	Sampling Date/Time	11.02.2020/12:33 PM
Sample Container	1x500ml PB	Sampling Point	Sink
Sample Receipt Temp	5°C	Sample Onsite Temp	19.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	HEALTHPOINT HOSPITAL		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	210
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero
Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.			

Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable
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Test method deviation	None
Test performed by Emp#	74 & 55
Report prepared by Emp#	22
The above test results are only applicable to the sample(s) referred above.	

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END OF REPORT

## TEST REPORT

Report No: QMTL/R-93125/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-93125	
	Date Received	11 Feb 2020	
	Date(s) Tested	11 Feb 2020 - 13 Feb 2020	
	Date Reported	22 Feb 2020	
ATTN : MR. JASMAN PINTO			
Sample Description	Cooling Tower 3		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	AUH	Sampling Date/Time	11.02.2020/12:40 PM
Sample Container	1x500ml PB	Sampling Point	Sink
Sample Receipt Temp	5°C	Sample Onsite Temp	24.5°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	HEALTHPOINT HOSPITAL		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	140
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero
Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.			

Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable
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Test method deviation	None
Test performed by Emp#	74 & 55
Report prepared by Emp#	22

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END OF REPORT

## TEST REPORT

Report No: QMTL/R-93126/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-93126	
	Date Received	11 Feb 2020	
	Date(s) Tested	11 Feb 2020 - 13 Feb 2020	
	Date Reported	22 Feb 2020	
ATTN : MR. JASMAN PINTO			
Sample Description	Cooling Tower 4		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	AUH	Sampling Date/Time	11.02.2020/12:48 PM
Sample Container	1x500ml PB	Sampling Point	Sink
Sample Receipt Temp	5°C	Sample Onsite Temp	21.2°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	HEALTHPOINT HOSPITAL		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal Coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	160
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero
Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.			

Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable
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Test method deviation	None
Test performed by Emp#	74 & 55
Report prepared by Emp#	22
The above test results are only applicable to the sample(s) referred above.	

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END OF REPORT

**TEST REPORT**

Report No: QMTL/R-93127/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-93127
ATTN : MR. JASMAN PINTO		Date Received	11 Feb 2020
		Date(s) Tested	11 Feb 2020 - 13 Feb 2020
		Date Reported	22 Feb 2020
Sample Description	Hydrotherapy Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	AUH	Sampling Date/Time	11.02.2020/1:00 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	5°C	Sample Onsite Temp	33.1°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	HEALTHPOINT HOSPITAL		

**TEST RESULTS**

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total bacterial count(Dip slide )	Kit Method	CFU/ml	-	<1
Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool Water with respect to the above test only.			
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable			
Test method deviation	None			
Test performed by Emp#	74 & 55			
Report prepared by Emp#	22			
The above test results are only applicable to the sample(s) referred above.				

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**END OF REPORT**

LABORATORY SERVICES

## TEST REPORT

Report No: QMTL/R-93121/2020

CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-93121
ATTN: Mr. JASMAN PINTO		Date Received	11 Feb 2020
		Date(s) Tested	11 Feb 2020-14 Feb 2020
		Date Reported	16 Feb 2020
Sample Description	Copper Silver Ionisation, P2-Water Tank-5		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	NA	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	11.02.2020/12:10 PM
Sample Container	1x500mL PB	Sampling Point	Valve
Sample Receipt Temp	5°C	Sample On-site Temp	28.9°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	HEALTH POINT HOSPITAL		

### TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	LIMITS	RESULTS
<b>CHEMICAL ANALYSIS</b>				
pH @24.1°C	APHA 4500-H <sup>+</sup> B	--	7.0 - 9.2	<b>7.32</b>
Conductivity @24.0°C	APHA 2510	µs/cm	-	<b>180.2</b>
Total Dissolved Solids@180°C	APHA 2540-C	mg/L	Min100 – Max 1000	<b>117.0</b>
Chloride (Cl)	APHA 4500-Cl B	mg/L	Max 250	<b>30.6</b>
Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B	mg/L	Max 200	<b>61.5</b>
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C	mg/L	Max 300	<b>65.5</b>
Iron (Fe)	APHA 3120 B	mg/L	Max 0.2	<b>&lt;0.05</b>
Copper (Cu)	APHA 3120 B	mg/L	Max 1.0	<b>&lt;0.05</b>
Silver (Ag)	APHA 3120 B	mg/L	Max 5.0	<b>&lt;0.05</b>

Remarks	The sample meets RSB Water Quality Regulations (4 <sup>th</sup> Edition) January 2014 requirements for potable water with respect to the above tests only.
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Keywords	APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure NA: Not Applicable, NP: Not Provided
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Test Method Deviation	None
Test performed by Emp#	13
Report prepared by Emp#	22
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**TEST REPORT**

Report No: QMTL/R-93122/2020

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box. 131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-93122
<b>ATTN: Mr. JASMAN PINTO</b>		Date Received	11 Feb 2020
		Date(s) Tested	11 Feb 2020-13 Feb 2020
		Date Reported	15 Feb 2020
Sample Description	Copper Silver Ionisation, P2-Water Tank-6		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	NA	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	11.02.2020/11.35 AM
Sample Container	1x500mL	Sampling Point	Tank
Sample Receipt Temp	5°C	Sample On-site Temp	26.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	<b>HEALTH POINT HOSPITAL</b>		

**TEST RESULTS**

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	LIMITS	RESULTS
<b>CHEMICAL ANALYSIS</b>				
pH @24.1°C	APHA 4500-H <sup>+</sup> B	--	7.0 - 9.2	<b>7.44</b>
Conductivity @24.1°C	APHA 2510	µs/cm	-	<b>179.9</b>
Total Dissolved Solids@180°C	APHA 2540-C	mg/L	Min100 – Max 1000	<b>115.0</b>
Chloride (Cl)	APHA 4500-Cl <sup>-</sup> B	mg/L	Max 250	<b>29.6</b>
Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B	mg/L	Max 200	<b>63.5</b>
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C	mg/L	Max 300	<b>67.5</b>
Iron (Fe)	APHA 3120 B	mg/L	Max 0.2	<b>&lt;0.05</b>
Copper (Cu)	APHA 3120 B	mg/L	Max 1.0	<b>&lt;0.05</b>
Silver (Ag)	APHA 3120 B	mg/L	Max 5.0	<b>&lt;0.05</b>

Remarks	The sample meets RSB Water Quality Regulations (4 <sup>th</sup> Edition) January 2014 requirements for potable water with respect to the above tests only.
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Keywords	APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure NA: Not Applicable, NP: Not Provided
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Test Method Deviation	None
Test performed by Emp#	13
Report prepared by Emp#	22
The above test results are only applicable to the sample(s) referred above.	

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