

## TEST REPORT

Report No: QMTL/R-97839/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-97839
ATTN : MR. JASMAN PINTO		Date Received	15 Mar 2020
		Date(s) Tested	15 Mar 2020 - 17 Mar 2020
		Date Reported	19 Mar 2020
Sample Description	L-4, Cooling Tower-1		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital	Sampling Date/Time	15.03.2020/3:20 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	4.5°C	Sample Onsite Temp	21.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## 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	230
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.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction.
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Test method deviation	None
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Test performed by Emp#	74 & 78 & 55
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Report prepared by Emp#	72
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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-97840/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>		Sample ID	QMTL/S-97840
		Date Received	15 Mar 2020
		Date(s) Tested	15 Mar 2020 - 17 Mar 2020
		Date Reported	19 Mar 2020
Sample Description	<b>L-4, Cooling Tower-3</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital	Sampling Date/Time	15.03.2020/3:35 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	4.5°C	Sample Onsite Temp	19.7°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### 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.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction.
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Test method deviation	None
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Test performed by Emp#	74 & 78 & 55
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Report prepared by Emp#	72
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The above test results are only applicable to the sample(s) referred above.

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**LABORATORY MANAGER**

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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-97841/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID : QMTL/S-97841 Date Received : 15 Mar 2020 Date(s) Tested : 15 Mar 2020 - 17 Mar 2020 Date Reported : 19 Mar 2020		
<b>ATTN : MR. JASMAN PINTO</b>			
Sample Description	<b>L-4, Cooling Tower-4</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital	Sampling Date/Time	15.03.2020/3:50 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	4.5°C	Sample Onsite Temp	20.5°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### 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	190
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.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction.
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Test method deviation	None
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Test performed by Emp#	74 & 78 & 55
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Report prepared by Emp#	72
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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-97842/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>	Sample ID	QMTL/S-97842	
	Date Received	15 Mar 2020	
	Date(s) Tested	15 Mar 2020 - 17 Mar 2020	
	Date Reported		
Sample Description	<b>P1 - Hydrotherapy Pool</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital	Sampling Date/Time	15.03.2020/4:00 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4.5°C	Sample Onsite Temp	33°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total bacterial count(Dip slide )	Kit Method	CFU/ml	1000	<1

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool Water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction.
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Test method deviation	None
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Test performed by Emp#	74 & 78 & 75
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Report prepared by Emp#	72
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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-97837/2020

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-97837
		Date Received	15 Mar 2020
		Date(s) Tested	15 Mar 2020-18 Mar 2020
		Date Reported	19 Mar 2020
<b>ATTN: Mr. JASMAN PINTO</b>			
Sample Description	P2 GRP Tank 5		
Sample Type	Water	Sampling Method	QMTL-SOP- 128
Client Name/Project	HEALTH POINT HOSPITAL	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	15.03.2020/ 03:00 PM
Sample Container	1x500mL PB	Sampling Point	Tank
Sample Receipt Temp	4.5°C	Sample On-site Temp	26.5°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	LIMITS	RESULTS
<b>CHEMICAL ANALYSIS</b>				
pH @24.4°C	APHA 4500-H <sup>+</sup> B	--	7.0 - 9.2	7.77
Conductivity @24.2°C	APHA 2510	µs/cm	-	184.2
Total Dissolved Solids@180°C	APHA 2540-C	mg/L	Min100 – Max 1000	118
Chloride (Cl)	APHA 4500-Cl <sup>-</sup> B	mg/L	Max 250	31.0
Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B	mg/L	Max 200	58.9
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C	mg/L	Max 300	62.9
Iron (Fe)	APHA 3120 B	mg/L	Max 0.2	<0.05
Copper (Cu)	APHA 3120 B	mg/L	Max 1.0	<0.05
Silver (Ag)	APHA 3120 B	mg/L	Max 5.0	<0.05

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, NA: Not Applicable, NP: Not Provided
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Test Method Deviation	None
Test performed by Emp#	13
Report prepared by Emp#	75
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## TEST REPORT

Report No: QMTL/R-97838/2020

<b>CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES</b> P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017  <b>ATTN: Mr. JASMAN PINTO</b>		Sample ID	QMTL/S-97838
		Date Received	15 Mar 2020
		Date(s) Tested	15 Mar 2020-18 Mar 2020
		Date Reported	19 Mar 2020
Sample Description	P2 GRP Tank 6		
Sample Type	Water	Sampling Method	QMTL-SOP- 128
Client Name/Project	HEALTH POINT HOSPITAL	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	15.03.2020/ 03:10 PM
Sample Container	1x500mL PB	Sampling Point	Tank
Sample Receipt Temp	4.5°C	Sample On-site Temp	14°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 <sup>RD</sup> EDITION)	UNITS	LIMITS	RESULTS
<b>CHEMICAL ANALYSIS</b>				
pH @24°C	APHA 4500-H <sup>+</sup> B	--	7.0 - 9.2	7.62
Conductivity @24.1°C	APHA 2510	µs/cm	-	185.1
Total Dissolved Solids@180°C	APHA 2540-C	mg/L	Min100 – Max 1000	119
Chloride (Cl)	APHA 4500-Cl <sup>-</sup> B	mg/L	Max 250	31.3
Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B	mg/L	Max 200	57.0
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C	mg/L	Max 300	62.9
Iron (Fe)	APHA 3120 B	mg/L	Max 0.2	<0.05
Copper (Cu)	APHA 3120 B	mg/L	Max 1.0	<0.05
Silver (Ag)	APHA 3120 B	mg/L	Max 5.0	<0.05

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, NA: Not Applicable, NP: Not Provided
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Test Method Deviation	None
Test performed by Emp#	13
Report prepared by Emp#	75
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