

## TEST REPORT

Report No: QMTL/R-131336/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-131336
ATTN : MR. JASMAN PINTO		Date Received	28 Oct 2020
		Date(s) Tested	28 Oct 2020 - 30 Oct 2020
		Date Reported	02 Nov 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, Abu Dhabi	Sampling Date/Time	28.10.2020 / 12:00 PM
Sample Container	1x500ml PB	Sampling Point	Basin
Sample Receipt Temp	4°C	Sample Onsite Temp	26.6°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	APHA 9215 B (23rd Edition)	CFU/ml	10,000	90
Total Coliforms	APHA 9222 B (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
E.coli	APHA 9222 H & I (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#	103 & 74
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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-131337/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-131337
ATTN : MR. JASMAN PINTO		Date Received	28 Oct 2020
		Date(s) Tested	28 Oct 2020 - 30 Oct 2020
		Date Reported	02 Nov 2020
Sample Description	L-4 Cooling Tower - 2		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	28.10.2020 / 12:15 PM
Sample Container	1x500ml PB	Sampling Point	Basin
Sample Receipt Temp	4°C	Sample Onsite Temp	27.2°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	APHA 9215 B (23rd Edition)	CFU/ml	10,000	120
Total Coliforms	APHA 9222 B (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
E.coli	APHA 9222 H & I (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#	103 & 74
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-131338/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-131338
ATTN : MR. JASMAN PINTO		Date Received	28 Oct 2020
		Date(s) Tested	28 Oct 2020 - 30 Oct 2020
		Date Reported	02 Nov 2020
Sample Description	L-4 Cooling Tower - 3		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	28.10.2020 / 12:30 PM
Sample Container	1x500ml PB	Sampling Point	Basin
Sample Receipt Temp	4°C	Sample Onsite Temp	27.8°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	APHA 9215 B (23rd Edition)	CFU/ml	10,000	180
Total Coliforms	APHA 9222 B (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
E.coli	APHA 9222 H & I (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#	103 & 74
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-131339/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-131339
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	28 Oct 2020
		Date(s) Tested	28 Oct 2020 - 30 Oct 2020
		Date Reported	02 Nov 2020
Sample Description	L-4 Cooling Tower - 4		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	28.10.2020 / 12:45 PM
Sample Container	1x500ml PB	Sampling Point	Basin
Sample Receipt Temp	4°C	Sample Onsite Temp	32.9°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	APHA 9215 B (23rd Edition)	CFU/ml	10,000	98
Total Coliforms	APHA 9222 B (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
E.coli	APHA 9222 H & I (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#	103 & 74
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Report prepared by Emp#	72
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END OF REPORT

**TEST REPORT**

Report No: QMTL/R-131342/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-131342
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	28 Oct 2020
		Date(s) Tested	28 Oct 2020 - 30 Oct 2020
		Date Reported	02 Nov 2020
Sample Description	<b>P-1 Hydrotherapy Pool</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	28.10.2020 / 01:20 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	31.6°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
Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) specifications for Pool Water 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, WI: Work Instruction, Doc Ref.: Document Reference			
Test method deviation	None			
Test performed by Emp#	103 & 74			
Report prepared by Emp#	72			
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-131340/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-131340	
	Date Received	28 Oct 2020	
	Date(s) Tested	28 Oct 2020 - 02 Nov 2020	
	ATTN : MR. JASMAN PINTO	Date Reported	03 Nov 2020
Sample Description	Copper - Silver Ionisation – P2 Water Tank # 05		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	28.10.2020 / 01:00 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	33.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>CHEMICAL PARAMETERS</b>				
Calcium Hardness	APHA 3500-Ca B (23rd Edition)	mg/L	Max 200	58.8
Chloride	APHA 4500 Cl <sup>-</sup> B (23rd Edition)	mg/L	Max 250	51.2
Conductivity	APHA 2510 B (23rd Edition)	µs/cm	-	210.0@24.1°C
pH	APHA 4500 H+B (23rd Edition)	-	Min 7.0-Max 9.2	7.52@24.1°C
Total Dissolved Solids	APHA 2540-C (23rd Edition)	mg/L	Min 100-Max 1000	136.0
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C (23rd Edition)	mg/L	Max 300	62.7

<b>METALS</b>				
Copper	APHA 3120 B (23rd Edition)	mg/L	Max 1.0	<0.05
Silver	APHA 3120 B (23rd Edition)	mg/L	Max 5.0	<0.05
Iron	APHA 3120 B (23rd Edition)	mg/L	Max 0.2	<0.05

Remarks: The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only.

Keywords: pH: Potential Hydrogen, APHA: American Public Health Association, NA: Not Applicable, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure, NP: Not Provided.

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.

Reported By




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## TEST REPORT

Report No: QMTL/R-131341/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-131341	
	Date Received	28 Oct 2020	
	Date(s) Tested	28 Oct 2020 - 02 Nov 2020	
	ATTN : MR. JASMAN PINTO	Date Reported	03 Nov 2020
Sample Description	Copper - Silver Ionisation – P2 Water Tank # 06		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	28.10.2020 / 01:10 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	18°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>CHEMICAL PARAMETERS</b>				
Calcium Hardness	APHA 3500-Ca B (23rd Edition)	mg/L	Max 200	58.8
Chloride	APHA 4500 Cl <sup>-</sup> B (23rd Edition)	mg/L	Max 250	50.3
Conductivity	APHA 2510 B (23rd Edition)	µs/cm	-	209.2@24.1°C
pH	APHA 4500 H+B (23rd Edition)	-	Min 7.0-Max 9.2	7.49@24.1°C
Total Dissolved Solids	APHA 2540-C (23rd Edition)	mg/L	Min 100-Max 1000	135.0
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C (23rd Edition)	mg/L	Max 300	60.7
<b>METALS</b>				
Copper	APHA 3120 B (23rd Edition)	mg/L	Max 1.0	<0.05
Silver	APHA 3120 B (23rd Edition)	mg/L	Max 5.0	<0.05
Iron	APHA 3120 B (23rd Edition)	mg/L	Max 0.2	<0.05
Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only.			
Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, NA: Not Applicable, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure, NP: Not Provided.			
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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