

## TEST REPORT

Report No: QMTL/R-136953/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>	Sample ID	QMTL/S-136953	
	Date Received	30 Nov 2020	
	Date(s) Tested	30 Nov 2020 - 02 Dec 2020	
	Date Reported	06 Dec 2020	
Sample Description	<b>L4, Cooling Tower-1</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	30.11.2020/12:35 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	4°C	Sample Onsite Temp	24°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	95
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#	113 & 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-136954/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>		Sample ID	QMTL/S-136954
		Date Received	30 Nov 2020
		Date(s) Tested	30 Nov 2020 - 02 Dec 2020
		Date Reported	06 Dec 2020
Sample Description	<b>L4, Cooling Tower-2</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	30.11.2020/12:42 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	4°C	Sample Onsite Temp	24°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	190
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#	113 & 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.

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**LABORATORY MANAGER**

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## TEST REPORT

Report No: QMTL/R-136955/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-136955
ATTN : MR. JASMAN PINTO		Date Received	30 Nov 2020
		Date(s) Tested	30 Nov 2020 - 02 Dec 2020
		Date Reported	06 Dec 2020
Sample Description	L4, 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	30.11.2020/12:50 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	4°C	Sample Onsite Temp	25°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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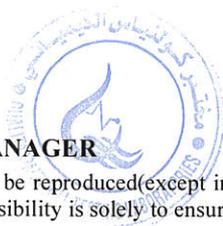
Test performed by Emp#	113 & 74
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-136956/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-136956
ATTN : MR. JASMAN PINTO		Date Received	30 Nov 2020
		Date(s) Tested	30 Nov 2020 - 02 Dec 2020
		Date Reported	06 Dec 2020
Sample Description	L4, 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	30.11.2020/01:00 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	4°C	Sample Onsite Temp	25.2°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	110
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#	113 & 74
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Report prepared by Emp#	72
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END OF REPORT

**TEST REPORT**

Report No: QMTL/R-136957/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-136957
		Date Received	30 Nov 2020
		Date(s) Tested	30 Nov 2020 - 02 Dec 2020
<b>ATTN : MR. JASMAN PINTO</b>		Date Reported	06 Dec 2020
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, Abu Dhabi	Sampling Date/Time	30.11.2020/01:10 PM
Sample Container	Dip Slide	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	26.2°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(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#	113 & 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-136951/2020

<b>CLIENT</b> : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN</b> : MR. JASMAN PINTO	Sample ID	QMTL/S-136951		
	Date Received	30 Nov 2020		
	Date(s) Tested	30 Nov 2020 - 05 Dec 2020		
	Date Reported	07 Dec 2020		
Sample Description	<b>Copper-Silver Ionisation- P2 Water Tank#5</b>			
Sample Type	Water	Sampling Method	QMTL-SOP-128	
Client Name/Project	NP	Sampled By	QMTL Representative	
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	30.11.2020/12:35 PM	
Sample Container	1x500ml PB	Sampling Point	Tank	
Sample Receipt Temp	18°C	Sample Onsite Temp	21°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	52.8
Chloride*	APHA 4500 Cl <sup>-</sup> B (23rd Edition)	mg/L	Max 250	53.7
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	7.46@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	58.5
<b>METALS</b>				
Copper*	APHA 3120 B (23rd Edition)	mg/L	Max 1.0	<0.05
Iron*	APHA 3120 B (23rd Edition)	mg/L	Max 0.20	<0.05
Silver	APHA 3120 B (23rd Edition)	mg/L	-	<0.05

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

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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## TEST REPORT

Report No: QMTL/R-136952/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-136952
ATTN : MR. JASMAN PINTO		Date Received	30 Nov 2020
		Date(s) Tested	30 Nov 2020 - 05 Dec 2020
		Date Reported	07 Dec 2020
Sample Description	Copper-Silver Ionisation- P2 Water Tank#6		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	30.11.2020/12:42 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	54.7
Chloride*	APHA 4500 Cl <sup>-</sup> B (23rd Edition)	mg/L	Max 250	53.2
Conductivity*	APHA 2510 B (23rd Edition)	µs/cm	-	208.2@24.1°C
pH*	APHA 4500 H+B (23rd Edition)	-	Min 7.0-Max 9.2	7.82@24.1°C
Total Dissolved Solids*	APHA 2540-C (23rd Edition)	mg/L	Min 100-Max 1000	134.0
Total Hardness as (CaCO <sub>3</sub> )*	APHA 2340-C (23rd Edition)	mg/L	Max 300	62.2
<b>METALS</b>				
Copper*	APHA 3120 B (23rd Edition)	mg/L	Max 1.0	<0.05
Iron*	APHA 3120 B (23rd Edition)	mg/L	Max 0.20	<0.05
Silver	APHA 3120 B (23rd Edition)	mg/L	-	<0.05

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

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