

## TEST REPORT

Report No: QMTL/R-139976/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-139976
ATTN : MR. JASMAN PINTO		Date Received	22 Dec 2020
		Date(s) Tested	22 Dec 2020 - 24 Dec 2020
		Date Reported	27 Dec 2020
Sample Description	L4, 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	22.12.2020 / 3:35 PM
Sample Container	1x500ml PB	Sampling Point	Tray
Sample Receipt Temp	4°C	Sample Onsite Temp	23.9°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	230
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

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 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, WI: Work Instruction
----------	--

Test method deviation	None
-----------------------	------

Test performed by Emp#	14 & 74
------------------------	---------

Report prepared by Emp#	72
-------------------------	----

The above test results are only applicable to the sample(s) referred above.

Reported By  
**ANILA GEORGE**  
LABORATORY MANAGER

This report is system generated, signature, stamp/ seal are not required.

The test report shall not be reproduced (except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

END OF REPORT

## TEST REPORT

Report No: QMTL/R-139977/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-139977
ATTN : MR. JASMAN PINTO		Date Received	22 Dec 2020
		Date(s) Tested	22 Dec 2020 - 24 Dec 2020
		Date Reported	27 Dec 2020
Sample Description	L4, 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	22.12.2020 / 3:40 PM
Sample Container	1x500ml PB	Sampling Point	Tray
Sample Receipt Temp	4°C	Sample Onsite Temp	19.6°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	150
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

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 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, WI: Work Instruction
----------	--

Test method deviation	None
-----------------------	------

Test performed by Emp#	14 & 74
------------------------	---------

Report prepared by Emp#	72
-------------------------	----

The above test results are only applicable to the sample(s) referred above.

Reported By  
**ANILA GEORGE**  
LABORATORY MANAGER

This report is system generated, signature, stamp/ seal are not required.

The test report shall not be reproduced(except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

END OF REPORT

## TEST REPORT

Report No: QMTL/R-139978/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-139978
ATTN : MR. JASMAN PINTO		Date Received	22 Dec 2020
		Date(s) Tested	22 Dec 2020 - 24 Dec 2020
		Date Reported	27 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	22.12.2020 / 3:50 PM
Sample Container	1x500ml PB	Sampling Point	Tray
Sample Receipt Temp	4°C	Sample Onsite Temp	21°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</b>				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	<b>180</b>
Total Coliforms*	APHA 9222 B -23rd Edition	CFU/100 ml	-	<b>Zero</b>
Fecal Coliforms*	APHA 9222 D -23rd Edition	CFU/100 ml	-	<b>Zero</b>
Pseudomonas aeruginosa*	APHA 9213 E -23rd Edition	CFU/100 ml	-	<b>Zero</b>
E.coli*	APHA 9222 H & I -23rd Edition	CFU/100 ml	-	<b>Zero</b>

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 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, WI: Work Instruction
----------	--

Test method deviation	None
-----------------------	------

Test performed by Emp#	14 & 74
------------------------	---------

Report prepared by Emp#	72
-------------------------	----

The above test results are only applicable to the sample(s) referred above.

Reported By  
**ANILA GEORGE**  
LABORATORY MANAGER

This report is system generated, signature, stamp/ seal are not required.

The test report shall not be reproduced (except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

END OF REPORT

## TEST REPORT

Report No: QMTL/R-139979/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-139979
ATTN : MR. JASMAN PINTO		Date Received	22 Dec 2020
		Date(s) Tested	22 Dec 2020 - 24 Dec 2020
		Date Reported	27 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	22.12.2020 / 3:55 PM
Sample Container	1x500ml PB	Sampling Point	Tray
Sample Receipt Temp	4°C	Sample Onsite Temp	21.4°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</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

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 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, WI: Work Instruction
Test method deviation	None
Test performed by Emp#	14 & 74
Report prepared by Emp#	72
The above test results are only applicable to the sample(s) referred above.	

Reported By  
**ANILA GEORGE**  
LABORATORY MANAGER

This report is system generated, signature, stamp/ seal are not required.

The test report shall not be reproduced(except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

END OF REPORT

**TEST REPORT**

Report No: QMTL/R-139982/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-139982
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	22 Dec 2020
		Date(s) Tested	22 Dec 2020 - 24 Dec 2020
		Date Reported	27 Dec 2020
Sample Description	<b>PI, 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	22.12.2020 / 3:20 PM
Sample Container	Dipslide	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	21.9°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

**TEST RESULTS**

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL PARAMETERS</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#	14 & 74			
Report prepared by Emp#	72			
The above test results are only applicable to the sample(s) referred above.				

Reported By  
**ANILA GEORGE**  
**LABORATORY MANAGER**

This report is system generated,signature,stamp/ seal are not required.

The test report shall not be reproduced(except in full) without the written approval of QMTL.When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-139980/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-139980	
	Date Received	22 Dec 2020	
	Date(s) Tested	22 Dec 2020 - 25 Dec 2020	
	Date Reported	02 Jan 2021	
ATTN : MR. JASMAN PINTO			
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	22.12.2020/ 02:05 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	31°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>PHYSICAL PARAMETERS</b>				
Conductivity*	APHA 2510 B-23rd Edition	µs/cm	-	208.2@24.2°C
pH*	APHA 4500 H+B-23rd Edition	-	Min 7.0-Max 9.2	7.82@24.2°C
Total Dissolved Solids*	APHA 2540-C-23rd Edition	mg/L	Min 100-Max 1000	135
<b>CHEMICAL PARAMETERS</b>				
Calcium Hardness*	APHA 3500 Ca B-23rd Edition	mg/L	Max 200	42.2
Chloride*	APHA 4500 Cl <sup>-</sup> B-23rd Edition	mg/L	Max 250	45.2
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C-23rd Edition	mg/L	Max 300	68.2
<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.
Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure, NA: Not Applicable, 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

ANILA GEORGE

LABORATORY MANAGER

This report is system generated, signature, stamp/ seal are not required.

The test report shall not be reproduced (except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

END OF REPORT

## TEST REPORT

Report No: QMTL/R-139981/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-139981	
	Date Received	22 Dec 2020	
	Date(s) Tested	22 Dec 2020 - 25 Dec 2020	
	Date Reported	02 Jan 2021	
ATTN : MR. JASMAN PINTO			
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	22.12.2020/ 02:05 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	19°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>PHYSICAL PARAMETERS</b>				
Conductivity*	APHA 2510 B-23rd Edition	µs/cm	-	210@24.2°C
pH*	APHA 4500 H+B-23rd Edition	-	Min 7.0-Max 9.2	7.65@24.2°C
Total Dissolved Solids*	APHA 2540-C-23rd Edition	mg/L	Min 100-Max 1000	136
<b>CHEMICAL PARAMETERS</b>				
Calcium Hardness*	APHA 3500 Ca B-23rd Edition	mg/L	Max 200	40.2
Chloride*	APHA 4500 Cl <sup>-</sup> B-23rd Edition	mg/L	Max 250	43.2
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C-23rd Edition	mg/L	Max 300	66.2
<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.
---------	--

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

**ANILA GEORGE**

**LABORATORY MANAGER**

This report is system generated, signature, stamp/ seal are not required.

The test report shall not be reproduced (except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

**END OF REPORT**