

## TEST REPORT

Report No: QMTL/R-144292/2021

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-144292
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	18 Jan 2021
		Date(s) Tested	18 Jan 2021 - 20 Jan 2021
		Date Reported	24 Jan 2021
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	18.01.2021 / 2:10 PM
Sample Container	1x500ml PB	Sampling Point	Basin
Sample Receipt Temp	4°C	Sample Onsite Temp	26°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>140</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 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.
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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-144293/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-144293
ATTN : MR. JASMAN PINTO		Date Received	18 Jan 2021
		Date(s) Tested	18 Jan 2021 - 20 Jan 2021
		Date Reported	24 Jan 2021
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	18.01.2021 / 2:20 PM
Sample Container	1x500ml PB	Sampling Point	Basin
Sample Receipt Temp	4°C	Sample Onsite Temp	25.3°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	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 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#	103 & 74
Report prepared by Emp#	72
The above test results are only applicable to the sample(s) referred above.	

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## TEST REPORT

Report No: QMTL/R-144294/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-144294
ATTN : MR. JASMAN PINTO		Date Received	18 Jan 2021
		Date(s) Tested	18 Jan 2021 - 20 Jan 2021
		Date Reported	24 Jan 2021
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	18.01.2021 / 2:30 PM
Sample Container	1x500ml PB	Sampling Point	Basin
Sample Receipt Temp	4°C	Sample Onsite Temp	27°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>110</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 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.
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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-144295/2021

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>		Sample ID	QMTL/S-144295
		Date Received	18 Jan 2021
		Date(s) Tested	18 Jan 2021 - 20 Jan 2021
		Date Reported	24 Jan 2021
Sample Description	<b>L4, Cooling Tower -4</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	18.01.2021 / 2:40 PM
Sample Container	1x500ml PB	Sampling Point	Basin
Sample Receipt Temp	4°C	Sample Onsite Temp	23°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>96</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 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.
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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-144291/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-144291
ATTN : MR. JASMAN PINTO		Date Received	18 Jan 2021
		Date(s) Tested	18 Jan 2021 - 20 Jan 2021
		Date Reported	24 Jan 2021
Sample Description	P1, Hydrotherapy Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	18.01.2021 / 2:00 PM
Sample Container	Dipslide	Sampling Point	Pool
Sample Receipt Temp	4°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 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#	103 & 74			
Report prepared by Emp#	72			
The above test results are only applicable to the sample(s) referred above.				

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## TEST REPORT

Report No: QMTL/R-144296/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-144296	
	Date Received	18 Jan 2021	
	Date(s) Tested	18 Jan 2021 - 22 Jan 2021	
	ATTN : MR. JASMAN PINTO	Date Reported	31 Jan 2021
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	18.01.2021/ 03:40 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	28.6°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@24.2°C
pH*	APHA 4500 H+B-23rd Edition	-	Min 7.0-Max 9.2	7.78@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	58.2
Chloride*	APHA 4500 Cl <sup>-</sup> B-23rd Edition	mg/L	Max 250	43.5
Total Hardness as (CaCO <sub>3</sub> )*	APHA 2340-C-23rd Edition	mg/L	Max 300	70.1
<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, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedures, NP: Not Provided, NA: Not Applicable
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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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The above test results are only applicable to the sample(s) referred above.

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## TEST REPORT

Report No: QMTL/R-144297/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-144297	
	Date Received	18 Jan 2021	
	Date(s) Tested	18 Jan 2021 - 22 Jan 2021	
	Date Reported	31 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	18.01.2021/ 03:45 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	15°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	-	211@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	137
<b>CHEMICAL PARAMETERS</b>				
Calcium Hardness*	APHA 3500 Ca B-23rd Edition	mg/L	Max 200	54.5
Chloride*	APHA 4500 Cl <sup>-</sup> B-23rd Edition	mg/L	Max 250	42.0
Total Hardness as (CaCO <sub>3</sub> )*	APHA 2340-C-23rd Edition	mg/L	Max 300	66.7
<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, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedures, NP: Not Provided, NA: Not Applicable
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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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The above test results are only applicable to the sample(s) referred above.

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