

TEST REPORT

Report No: QMTL/R-112922/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO		Sample ID	QMTL/S-112922
		Date Received	22 Jul 2020
		Date(s) Tested	22 Jul 2020 - 24 Jul 2020
		Date Reported	27 Jul 2020
Sample Description	Hydrotherapy Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, AUH	Sampling Date/Time	22.07.2020 / 10:00 AM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	NP
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
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#	74 & 55			
Report prepared by Emp#	72			
The above test results are only applicable to the sample(s) referred above.				

Reported By




ANILA GEORGE
LABORATORY MANAGER

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-112923/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO		Sample ID	QMTL/S-112923
		Date Received	22 Jul 2020
		Date(s) Tested	22 Jul 2020 - 24 Jul 2020
		Date Reported	27 Jul 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, AUH	Sampling Date/Time	22.07.2020 / 10:03 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	4°C	Sample Onsite Temp	29°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
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	39
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.
---------	---

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#	74 & 55
------------------------	---------

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

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

Reported By



ANILA GEORGE
LABORATORY MANAGER



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-112924/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-112924
ATTN : MR. JASMAN PINTO		Date Received	22 Jul 2020
		Date(s) Tested	22 Jul 2020 - 24 Jul 2020
		Date Reported	27 Jul 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, AUH	Sampling Date/Time	22.07.2020 / 10:08 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	4°C	Sample Onsite Temp	29.3°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
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	98
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.
---------	---

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#	74 & 55
------------------------	---------

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

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

Reported By


ANILA GEORGE
LABORATORY MANAGER



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-112925/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-112925
ATTN : MR. JASMAN PINTO		Date Received	22 Jul 2020
		Date(s) Tested	22 Jul 2020 - 24 Jul 2020
		Date Reported	27 Jul 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, AUH	Sampling Date/Time	22.07.2020 / 10:11 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	4°C	Sample Onsite Temp	29.1°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
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	110
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.
---------	---

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#	74 & 55
------------------------	---------

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

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

Reported By



ANILA GEORGE
LABORATORY MANAGER



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-112926/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-112926	
	Date Received	22 Jul 2020	
	Date(s) Tested	22 Jul 2020 - 24 Jul 2020	
	Date Reported	27 Jul 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, AUH	Sampling Date/Time	22.07.2020 / 10:15 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	4°C	Sample Onsite Temp	28.9°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
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	48
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.
---------	---

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#	74 & 55
------------------------	---------

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

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

Reported By


ANILA GEORGE
LABORATORY MANAGER



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-112928/2020

CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-112928
ATTN: Mr. JASMAN PINTO		Date Received	22 Jul 2020
		Date(s) Tested	22 Jul 2020-24 Jul 2020
		Date Reported	06 Aug 2020
Sample Description	Copper - Silver Ionisation – P2 Water Tank # 06		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	HEALTH POINT HOSPITAL	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	22.07.2020/ 10:15 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample On-site Temp	17.9°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 rd EDITION)	UNITS	LIMITS	RESULTS
CHEMICAL ANALYSIS				
pH @24.1°C*	APHA 4500-H ⁺ B	--	7.0 - 9.2	7.88
Conductivity @24.2°C*	APHA 2510	µs/cm	-	194.1
Total Dissolved Solids@180°C*	APHA 2540-C	mg/L	Min100 – Max 1000	126
Chloride*	APHA 4500-Cl ⁻ B	mg/L	Max 250	31.2
Calcium Hardness as (CaCO ₃)*	APHA 3500-Ca B	mg/L	Max 200	58.2
Total Hardness as (CaCO ₃)*	APHA 2340-C	mg/L	Max 300	61.2
Iron*	APHA 3120 B	mg/L	Max 0.2	<0.05
Copper*	APHA 3120 B	mg/L	Max 1.0	<0.05
Silver*	APHA 3120 B	mg/L	Max 5.0	<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 (4 th 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, NA: Not Applicable, NP: Not Provided
----------	--

Test Method Deviation	None
Test performed by Emp#	13
Report prepared by Emp#	75

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

Reported By

ANILA GEORGE
LABORATORY MANAGER

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 only 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-112927/2020

CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box. 131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-112927
ATTN: Mr. JASMAN PINTO		Date Received	22 Jul 2020
		Date(s) Tested	22 Jul 2020-24 Jul 2020
		Date Reported	06 Aug 2020
Sample Description	Copper - Silver Ionisation – P2 Water Tank # 05		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	HEALTH POINT HOSPITAL	Sampled By	QMTL Representative
Location	Abu Dhabi	Sampling Date/Time	22.07.2020/ 10:00 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample On-site Temp	33.1°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 rd EDITION)	UNITS	LIMITS	RESULTS
CHEMICAL ANALYSIS				
pH @24.1°C*	APHA 4500-H ⁺ B	--	7.0 - 9.2	7.77
Conductivity @24.2°C*	APHA 2510	µs/cm	-	192.3
Total Dissolved Solids@180°C*	APHA 2540-C	mg/L	Min100 – Max 1000	125
Chloride*	APHA 4500-Cl ⁻ B	mg/L	Max 250	28.7
Calcium Hardness as (CaCO ₃)*	APHA 3500-Ca B	mg/L	Max 200	56.8
Total Hardness as (CaCO ₃)*	APHA 2340-C	mg/L	Max 300	60.9
Iron*	APHA 3120 B	mg/L	Max 0.2	<0.05
Copper*	APHA 3120 B	mg/L	Max 1.0	<0.05
Silver*	APHA 3120 B	mg/L	Max 5.0	<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 (4 th 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, NA: Not Applicable, NP: Not Provided
----------	--

Test Method Deviation	None
Test performed by Emp#	13
Report prepared by Emp#	75
The above test results are only applicable to the sample(s) referred above.	

Reported By

ANILA GEORGE
LABORATORY MANAGER

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 only to ensure that the analysis is conducted to standard test methods in accordance with industry accepted practice.

END OF REPORT