

TEST REPORT

Report No: QMTL/R-147060/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-147060
		Date Received	07 Feb 2021
		Date(s) Tested	07 Feb 2021 - 09 Feb 2021
ATTN : MR. JASMAN PINTO		Date Reported	17 Feb 2021
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	07.02.2021 / 1:50 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	6°C	Sample Onsite Temp	24°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL PARAMETERS				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	26x10 ⁴
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 & 14
Report prepared by Emp#	72
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-147061/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-147061
		Date Received	07 Feb 2021
		Date(s) Tested	07 Feb 2021 - 09 Feb 2021
ATTN : MR. JASMAN PINTO		Date Reported	17 Feb 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	07.02.2021 / 2:00 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	6°C	Sample Onsite Temp	24.4°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL PARAMETERS				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	32x10 ¹
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 & 14
Report prepared by Emp#	72
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Report No: QMTL/R-147062/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-147062
ATTN : MR. JASMAN PINTO		Date Received	07 Feb 2021
		Date(s) Tested	07 Feb 2021 - 09 Feb 2021
		Date Reported	17 Feb 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	07.02.2021 / 2:10 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	6°C	Sample Onsite Temp	24°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL PARAMETERS				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	21x10 ⁴
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.
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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 & 14
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Report prepared by Emp#	72
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Report No: QMTL/R-147063/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-147063
ATTN : MR. JASMAN PINTO		Date Received	07 Feb 2021
		Date(s) Tested	07 Feb 2021 - 09 Feb 2021
		Date Reported	17 Feb 2021
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	07.02.2021 / 2:30 PM
Sample Container	1x500ml PB	Sampling Point	Cooling Tower
Sample Receipt Temp	6°C	Sample Onsite Temp	24.2°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL PARAMETERS				
Total Bacterial Count*	APHA 9215 B -23rd Edition	CFU/ml	10,000	29x10 ⁴
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 & 14
Report prepared by Emp#	72
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Report No: QMTL/R-147058/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-147058
ATTN : MR. JASMAN PINTO		Date Received	07 Feb 2021
		Date(s) Tested	07 Feb 2021 - 10 Feb 2021
		Date Reported	11 Feb 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	07.02.2021/ 01:30 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	26°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
PHYSICAL PARAMETERS				
Conductivity*	APHA 2510 B-23rd Edition	µs/cm	-	205.0@24.2°C
pH*	APHA 4500 H+B-23rd Edition	-	Min 7.0-Max 9.2	7.88@24.2°C
Total Dissolved Solids*	APHA 2540-C-23rd Edition	mg/L	Min 100-Max 600	133
CHEMICAL PARAMETERS				
Calcium Hardness*	APHA 3500 Ca B-23rd Edition	mg/L	Max 200	54.6
Chloride*	APHA 4500 Cl B-23rd Edition	mg/L	Max 250	45.2
Total Hardness as (CaCO ₃)*	APHA 2340-C-23rd Edition	mg/L	Max 300	60.1
METALS				
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 Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan- 2021 requirements for potable water with respect to the above tests only.
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Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, DoE: Department of Energy, SOP: Standard Operating Procedure, NA: Not Applicable, 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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The above test results are only applicable to the sample(s) referred above.

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Report No: QMTL/R-147059/2021

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-147059	
	Date Received	07 Feb 2021	
	Date(s) Tested	07 Feb 2021 - 10 Feb 2021	
	Date Reported	11 Feb 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	07.02.2021/ 01:35 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	17°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
PHYSICAL PARAMETERS				
Conductivity*	APHA 2510 B-23rd Edition	µs/cm	-	207.1@25.2°C
pH*	APHA 4500 H+B-23rd Edition	-	Min 7.0-Max 9.2	7.55@25.2°C
Total Dissolved Solids*	APHA 2540-C-23rd Edition	mg/L	Min 100-Max 600	135
CHEMICAL PARAMETERS				
Calcium Hardness*	APHA 3500 Ca B-23rd Edition	mg/L	Max 200	56.2
Chloride*	APHA 4500 Cl ⁻ B-23rd Edition	mg/L	Max 250	43.2
Total Hardness as (CaCO ₃)*	APHA 2340-C-23rd Edition	mg/L	Max 300	62.1
METALS				
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 Department of Energy Water Quality Regulations (5th Edition/Document No-DoE/PD/R01/003)Jan- 2021 requirements for potable water with respect to the above tests only.
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Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, DoE: Department of Energy, SOP: Standard Operating Procedure, NA: Not Applicable, NP: Not Provided.
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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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