

TEST REPORT

Report No: QMTL/R-101058/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-101058
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
ATTN: Mr. JASMAN PINTO		Date Reported	07 June 2020
Sample Description	MR-1 –Pantry, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tap
Sample Receipt Temp	2.9°C	Sample On-site Temp	40°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	<1
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101058 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
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Test Method Deviation	None
Test performed by Emp#	55 & 74
Report prepared by Emp#	
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-101072/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-101072
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
ATTN: Mr. JASMAN PINTO		Date Reported	07 June 2020
Sample Description	MR-1 –Pantry, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	40°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A,Procedure5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101072 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: MR 1 - Pantry, Hot Water

WATER ANALYSIS

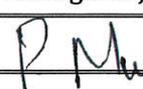
PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 – 9.2	8.03			
Conductivity at 25°C, µs/cm	1600 Max.	188			
Total Dissolved Solids (TDS)	1000 Max.	122			
Total Hardness, ppm as CaCO ₃	300 Max.	59			
Calcium Hardness, ppm as CaCO ₃	200 Max.	56			
Chlorides (Cl ⁻), mg/l	250 Max.	47			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
Service Engineer:	Murugaraaj		Client:	Mr. MUHAMMED AFSHAR
Signature:			Signature:	



TEST REPORT

Report No: QMTL/R-101059/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-101059
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
ATTN: Mr. JASMAN PINTO		Date Reported	07 June 2020
Sample Description	MR-1 –Catering Kitchen, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	2.9°C	Sample On-site Temp	50°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	4
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101059 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
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Test Method Deviation	None
Test performed by Emp#	55 & 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



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END OF REPORT

TEST REPORT

Report No: QMTL/R-101073/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-101073
ATTN: Mr. JASMAN PINTO		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
		Date Reported	07 June 2020
Sample Description	MR-1 –Catering Kitchen, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	50°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101073 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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Test Method Deviation	None
Test performed by Emp#	55 & 74
Report prepared by Emp#	72
The above test results are only applicable to the sample(s) referred above.	

Reported By

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LABORATORY MANAGER

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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: MR 1 -Catering Kitchen, Hot Water

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 – 9.2	7.98			
Conductivity at 25°C, µs/cm	1600 Max.	176			
Total Dissolved Solids (TDS)	1000 Max.	114			
Total Hardness, ppm as CaCO ₃	300 Max.	59			
Calcium Hardness, ppm as CaCO ₃	200 Max.	56			
Chlorides (Cl ⁻), mg/l	250 Max.	42			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)

COMMENTS:

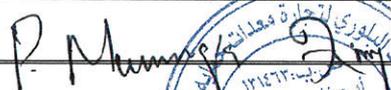
The pH and Conductivity/TDS are found satisfactory. ⇨

ACTION:

No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
Service Engineer:	Murugaraaj		Client:	Mr. MUHAMMED AFSHAR
Signature:			Signature:	



TEST REPORT

Report No: QMTL/R-101060/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101060
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
		Date Reported	07 June 2020
Sample Description	MDH, E Light Kitchen, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	2.9°C	Sample On-site Temp	61°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	<1
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101060 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

TEST REPORT

Report No: QMTL/R-101074/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101074
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
		Date Reported	07 June 2020
Sample Description	MDH, E Light Kitchen, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	61°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101074 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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Test Method Deviation	None
Test performed by Emp#	55 & 74
Report prepared by Emp#	72

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

Reported By

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LABORATORY MANAGER



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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: MDH, E Light Kitchen, Hot Water

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 - 9.2	7.92			
Conductivity at 25°C, $\mu\text{S}/\text{cm}$	1600 Max.	180			
Total Dissolved Solids (TDS)	1000 Max.	117			
Total Hardness, ppm as CaCO_3	300 Max.	62			
Calcium Hardness, ppm as CaCO_3	200 Max.	55			
Chlorides (Cl^-), mg/l	250 Max.	42			
Sulphate (SO_4), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate ($\text{NO}_3\text{-N}$) mg/l	50 Max.	<1.0			
Nitrite ($\text{NO}_2\text{-}$) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos)

COMMENTS:

ACTION:

The pH and Conductivity/TDS are found satisfactory. \square

No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
Service Engineer:	Murugaraaj	Client:	Mr. MUHAMMED AFSHAR	
Signature:		Signature:		



TEST REPORT

Report No:QMTL/R-101061/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101061
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
		Date Reported	07 June 2020
Sample Description	MDH, Wash Room, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	2.9°C	Sample On-site Temp	40°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	6
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101061 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

TEST REPORT

Report No: QMTL/R-101075/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101075
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
		Date Reported	07 June 2020
Sample Description	MDH, Wash Room, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	40°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101075 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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Test Method Deviation	None
Test performed by Emp#	55 & 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



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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: MDH, Wash Room, Hot Water

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTBALE WATER			
pH at 25°C	7.0 - 9.2	7.86			
Conductivity at 25°C, µs/cm	1600 Max.	174			
Total Dissolved Solids (TDS)	1000 Max.	113			
Total Hardness, ppm as CaCO ₃	300 Max.	59			
Calcium Hardness, ppm as CaCO ₃	200 Max.	53			
Chlorides (Cl ⁻), mg/l	250 Max.	47			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -N) mg/l	50 Max.	1.3			
Nitrite (NO ₂ -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)

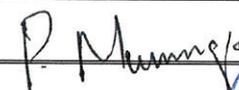
COMMENTS:

The pH levels are high



ACTION:

Please maintain the desired control limit

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
Service Engineer:	Murugaraaj	Client:	Mr. MUHAMMED AFSHAR	
Signature:		Signature:		



TEST REPORT

Report No:QMTL/R-101065/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-101065
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
ATTN: Mr. JASMAN PINTO		Date Reported	07 June 2020
Sample Description	FDH- Dining Area Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tap
Sample Receipt Temp	2.9°C	Sample On-site Temp	57°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	5
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101065 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

TEST REPORT

Report No: QMTL/R-101079/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101079
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
		Date Reported	07 June 2020
Sample Description	FDH Dining Area, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	57°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101079 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: FDH, Dinning Area, Hot Water

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER			
pH at 25°C	7.0 - 9.2	7.86			
Conductivity at 25°C, µs/cm	1600 Max.	198			
Total Dissolved Solids (TDS)	1000 Max.	128			
Total Hardness, ppm as CaCO ₃	300 Max.	56			
Calcium Hardness, ppm as CaCO ₃	200 Max.	50			
Chlorides (Cl ⁻), mg/l	250 Max.	43			
Sulphate (SO ₄ ²⁻), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ ⁻ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ ⁻) mg/l	3.0 Max.	<0.1			
Fluorides (F ⁻)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
Service Engineer:	Murugaraaj		Client:	Mr. MUHAMMED AFSHAR
Signature:			Signature:	



TEST REPORT

Report No: QMTL/R-101066/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101066
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
		Date Reported	07 June 2020
Sample Description	FDH- Kitchen, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tap
Sample Receipt Temp	2.9°C	Sample On-site Temp	49°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	3
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101066 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
----------	---

Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

TEST REPORT

Report No: QMTL/R-101080/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101080
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
		Date Reported	07 June 2020
Sample Description	FDH Kitchen, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	49°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101080 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
----------	--

Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: FDH Kitchen, Hot Water

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WAER			
pH at 25°C	7.0 - 9.2	8.13			
Conductivity at 25°C, µs/cm	1600 Max.	189			
Total Dissolved Solids (TDS)	1000 Max.	122			
Total Hardness, ppm as CaCO ₃	300 Max.	63			
Calcium Hardness, ppm as CaCO ₃	200 Max.	57			
Chlorides (Cl ⁻), mg/l	250 Max.	46			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)

COMMENTS:

The pH and Conductivity/TDS are found satisfactory. ⇨

ACTION:

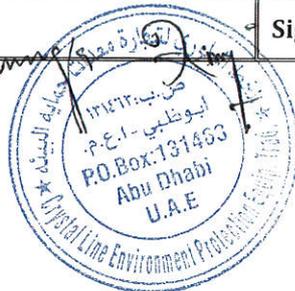
No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	

Service Engineer:	Murugaraaj	Client:	Mr. MUHAMMED AFSHAR
Signature:		Signature:	



TEST REPORT

Report No:QMTL/R-101067/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101067
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
		Date Reported	07 June 2020
Sample Description	FSP- Pantry, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tap
Sample Receipt Temp	2.9°C	Sample On-site Temp	48°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	<1
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101067 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

TEST REPORT

Report No:QMTL/R-101081/2020 Rev 01

CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-101081
ATTN: Mr. JASMAN PINTO		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
		Date Reported	07 June 2020
Sample Description	FSP Pantry, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	48.5°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A,Procedure5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101081 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020			
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: FSP Pantry, Hot Water			
WATER ANALYSIS					
PARAMETER	CONTROL LIMITS	POTABLE WAER			
pH at 25°C	7.0 – 9.2	8.09			
Conductivity at 25°C, µs/cm	1600 Max.	197			
Total Dissolved Solids (TDS)	1000 Max.	128			
Total Hardness, ppm as CaCO ₃	300 Max.	61			
Calcium Hardness, ppm as CaCO ₃	200 Max.	58			
Chlorides (Cl ⁻), mg/l	250 Max.	45			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			
Treatment Residuals					
Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			
<i>All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)</i>					
COMMENTS:			ACTION:		
The pH and Conductivity/TDS are found satisfactory. ⇨			No action recommended.		
INVENTORY LEVELS					
DOSAGE SCHEDULE					
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage	
			--		
Service Engineer:	Murugaraaj		Client:	Mr. MUHAMMED AFSHAR	
Signature:			Signature:		



TEST REPORT

Report No: QMTL/R-101068/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101068
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
		Date Reported	07 June 2020
Sample Description	FSP- Wash Room, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tap
Sample Receipt Temp	2.9°C	Sample On-site Temp	39°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	<1
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101068 reported on 27.04.2020
---------	---

Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
----------	---

Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

TEST REPORT

Report No: QMTL/R-101082/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101082
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
		Date Reported	07 June 2020
Sample Description	FSP Wash Room, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	39°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101082 reported on 06.05.2020
---------	---

Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
----------	--

Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: FSP Wash Room, Hot Water

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WAER			
pH at 25°C	7.0 - 9.2	7.99			
Conductivity at 25°C, µs/cm	1600 Max.	191			
Total Dissolved Solids (TDS)	1000 Max.	124			
Total Hardness, ppm as CaCO ₃	300 Max.	64			
Calcium Hardness, ppm as CaCO ₃	200 Max.	59			
Chlorides (Cl ⁻), mg/l	250 Max.	48			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)

COMMENTS:

The pH and Conductivity/TDS are found satisfactory. ⇔

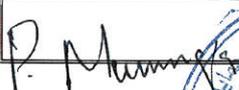
ACTION:

No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	

Service Engineer:	Murugaraaj	Client:	Mr. MUHAMMED AFSHAR
Signature:		Signature:	



TEST REPORT

Report No: QMTL/R-101071/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101071
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 20 Apr 2020
		Date Reported	07 June 2020
Sample Description	FR-1, Catering Kitchen, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tap
Sample Receipt Temp	2.9°C	Sample On-site Temp	54°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	<1
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101071 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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-101085/2020 Rev 01

CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-101085
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
ATTN: Mr. JASMAN PINTO		Date Reported	07 June 2020
Sample Description	FR-1 Catering Kitchen, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	50°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A,Procedure5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101085 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT



CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: FR 1, Catering Kitchen, Hot Water

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WAER			
pH at 25°C	7.0 - 9.2	8.13			
Conductivity at 25°C, µs/cm	1600 Max.	197			
Total Dissolved Solids (TDS)	1000 Max.	128			
Total Hardness, ppm as CaCO ₃	300 Max.	64			
Calcium Hardness, ppm as CaCO ₃	200 Max.	57			
Chlorides (Cl ⁻), mg/l	250 Max.	50			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)

COMMENTS:

The pH and Conductivity/TDS are found satisfactory. ⇨

ACTION:

No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
Service Engineer:	Murugaraaj		Client:	Mr. MUHAMMED AFSHAR
Signature:			Signature:	



TEST REPORT

Report No: QMTL/R-101070/2020 Rev 01

CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017		Sample ID	QMTL/S-101070
ATTN: Mr. JASMAN PINTO		Date Received	18 Apr 2020
Sample Description		Date(s) Tested	18 Apr 2020- 20 Apr 2020
Sample Type		Date Reported	07 June 2020
FR-1, Pantry, Hot Water		Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x500ml PB	Sampling Point	Tap
Sample Receipt Temp	2.9°C	Sample On-site Temp	54°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS (APHA 23 RD EDITION)	UNITS	SPECIFICATIONS	RESULTS
MICROBIOLOGICAL ANALYSIS				
Total Bacterial Count	APHA 9215 B	CFU/ml	10@37°C	9
Total Coliforms	APHA 9222 B	CFU/100ml	Zero	Zero
Faecal coliform	APHA 9222 D	CFU/100ml	Zero	Zero
Pseudomonas aeruginosa	APHA 9213 E	CFU/100ml	Zero	Zero
Escherichia coli	APHA 9222 H & I	CFU/100ml	Zero	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101070 reported on 27.04.2020
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, WI: Work Instruction, NP: Not Provided.
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Test Method Deviation	None
Test performed by Emp#	55 & 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

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END OF REPORT

TEST REPORT

Report No:QMTL/R-101084/2020 Rev 01

CLIENT:- CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 ATTN: Mr. JASMAN PINTO		Sample ID	QMTL/S-101084
		Date Received	18 Apr 2020
		Date(s) Tested	18 Apr 2020- 28 Apr 2020
		Date Reported	07 June 2020
Sample Description	FR-1 Pantry, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	ZAYED UNIVERSITY, AUH	Sampling Date/Time	18.04.2020/ 11.30 AM
Sample Container	1x1L PB	Sampling Point	Tap
Sample Receipt Temp	19°C	Sample On-site Temp	54°C
Sample Appearance	Clear	On-site Treatment	NP
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	LIMITS	RESULTS
LEGIONELLA ANALYSIS				
Legionella	ISO 11731:2017 E (Matrix A, Procedure 5)	CFU/litre	<1	<1
IDENTIFICATION				
Legionella Species	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets RSB Water Quality Regulations (4 th Edition) January 2014 requirements for potable water with respect to the above tests only. This report supersedes the report no QMTL/R-101084 reported on 06.05.2020
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Keywords	CFU: Colony Forming Unit, ISO: International Organization for Standardization, RSB : Regulation & Supervision Bureau, NP: Not Provided, WI: Work Instruction, BCYE: Buffered Charcoal Yeast Extract Agar Culture Media :- BCYE Agar
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Test Method Deviation	None
Test performed by Emp#	55 & 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



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END OF REPORT



CONSULTING SERVICE REPORT

CUSTOMER: SERCO FACILITY MANAGEMENT.	To: MR. MUHAMMED AFSHAR OPERATIONS ENGINEER	DATE: 18-04-2020
SITE: ZAYED UNIVERSITY, ABU DHABI	Copy: SERCO	LOCATION: FR 1, Pantry, Hot Water

WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WAER			
pH at 25°C	7.0 - 9.2	8.20			
Conductivity at 25°C, µs/cm	1600 Max.	189			
Total Dissolved Solids (TDS)	1000 Max.	122			
Total Hardness, ppm as CaCO ₃	300 Max.	56			
Calcium Hardness, ppm as CaCO ₃	200 Max.	51			
Chlorides (Cl ⁻), mg/l	250 Max.	43			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -N) mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -) mg/l	3.0 Max.	<0.1			
Fluorides (F)	1.5 Max.	<0.05			
Potassium (K)	12 Max.	<5.0			

Treatment Residuals					
Odor	Unobjectionabl	ND			
Turbidity in NTU	4.0 Max.	<1			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos)

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
			--	
Service Engineer:	Murugaraaj		Client:	Mr. MUHAMMED AFSHAR
Signature:			Signature:	

