



Microbiology Test Report

Customer Details

Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2012-29904



Request No. : WA-Q-L-2012-04221

Sample No. : WA-S-L-2012-29242

Sampling Date	: 19/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 19/12/2020	Analysis End Date.	: 22/12/2020
Sample Location.	: Galleria Mall, Al Maryah Island	Sampled By	: Jameel
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3174	Sampling Method	: APHA 9060 A&B
Temperature °C	: 14.1	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Chilled Water
Sampling Point	: North East	Preservation	: 4-8°C
Sample Description	: Chiller Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Head of Microbiology Department

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Microbiology Test Report

Customer Details

Crystalline Cleaning & Environmental Services

P.O.Box: 131463 Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE.

Report No. WA-R-L-2012-29903



Request No. : WA-Q-L-2012-04221

Sample No. : WA-S-L-2012-29241

Sampling Date	: 19/12/2020	Report Date.	: 23/12/2020
Analysis Start Date.	: 19/12/2020	Analysis End Date.	: 22/12/2020
Sample Location.	: Galleria Mall, Al Maryah Island	Sampled By	: Jameel
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3174	Sampling Method	: APHA 9060 A&B
Temperature °C	: 16	Site Observation	: Clear
Sampling Container	: Sterile Glass Bottle	Source of Sample	: Chilled Water
Sampling Point	: South East	Preservation	: 4-8°C
Sample Description	: Chiller Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	-
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	-
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	-
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	-

Note : Not Detected=<1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Head of Microbiology Department



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CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Galleria Mall (GAMI), Al Mariyah Island	Date: 19-12-2021
Sample Point: South East – Chilled Water	Sampled By: Client Representative

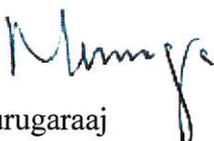
CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.81
Conductivity, $\mu\text{s}/\text{cm}$	Max 3000	1630
TDS, ppm	Max 1750	1059
Iron, ppm as Fe	0 - 2.0	0.43
Treatment Residuals		
Nitrite, ppm	800 - 1000	680
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within control limit \Rightarrow	No action recommended.
Corrosion Inhibitor levels are low \Rightarrow	Please maintain the nitrite level between 800 -1000 ppm

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Galleria Mall (GAMI), Al Mariyah Island	Date: 19-12-2021
Sample Point: North East - Chilled Water	Sampled By: Client Representative

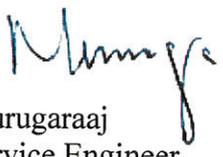
CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.93
Conductivity, $\mu\text{s}/\text{cm}$	Max 3000	1870
TDS, ppm	Max 1750	1215
Iron, ppm as Fe	0 - 2.0	0.34
Treatment Residuals		
Nitrite, ppm	800 - 1000	810
Dipslide	$<10^3$	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within control limit \Rightarrow	No action recommended.
Corrosion Inhibitor levels are satisfactory \Rightarrow	No action recommended.

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW