



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-2012-28679



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28068

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 Service Building 1
Sampling Point	: Raw Water Tank	Preservation	: 4-8°C
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden 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-2012-28680



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28069

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 33	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 Service Building 1
Sampling Point	: Filter Water Tank	Preservation	: 4-8°C
Sample Description	: Water		

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

Note : Not Detected=<=1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden 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-2012-28681



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28070

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 32	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2 Service Building 2
Sampling Point	: Raw Water Tank	Preservation	: 4-8°C
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden 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-2012-28682



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28071

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2 Service Building 2
Sampling Point	: Filter Water Tank	Preservation	: 4-8°C
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
HS	SM	None

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

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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-2012-28684



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28073

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Infrastructure Building Male Side
Sampling Point	: Washroom Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
HS	SM	None

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

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Head of Microbiology Department



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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2012-28683



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28072

Sampling Date	: 08/12/2020	Report Date.	: 10/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 10/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: APHA 9060 A&B
Temperature °C	: 30	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Infrastructure Building Female Side
Sampling Point	: Washroom Tap Water	Preservation	: 4-8°C
Sample Description	: Water		

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

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

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

Analyst	Reviewed By	Method Variation
HS	SM	None

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

Signed for and on behalf of Wimpey Laboratories

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Head of Microbiology Department



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Legionella Test Report

Customer Details

Report No. WA-R-L-2012-28694

Crystalline Cleaning & Environmental Services

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



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28083

Sampling Date	: 08/12/2020	Report Date.	: 19/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 18/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: BS 7592
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 Service Building 1
Sampling Point	: Raw Water Tank	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection= \leq 1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Head of Microbiology Department

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Legionella 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-2012-28695



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28084

Sampling Date	: 08/12/2020	Report Date.	: 19/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 18/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: BS 7592
Temperature °C	: 33	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV1 Service Building 1
Sampling Point	: Filter Water Tank	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Head of Microbiology Department



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Legionella Test Report

Customer Details

Report No. WA-R-L-2012-28696

Crystalline Cleaning & Environmental Services

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



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28085

Sampling Date	: 08/12/2020	Report Date.	: 19/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 18/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: BS 7592
Temperature °C	: 32	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2 Service Building 2
Sampling Point	: Raw Water Tank	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

Analyt	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Head of Microbiology Department



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Legionella Test Report

Customer Details

Report No. WA-R-L-2012-28697

Crystalline Cleaning & Environmental Services

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



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28086

Sampling Date	: 08/12/2020	Report Date.	: 19/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 18/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: BS 7592
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: SV2 Service Building 2
Sampling Point	: Filter Water Tank	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D

Head of Microbiology Department



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Legionella 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-2012-28699



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28088

Sampling Date	: 08/12/2020	Report Date.	: 19/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 18/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: BS 7592
Temperature °C	: 31	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Infrastructure Building Male Side
Sampling Point	: Washroom Tap Water	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection= \leq 1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

Signed for and on behalf of Wimpey Laboratories

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Head of Microbiology Department



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Legionella 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-2012-28698



Request No. : WA-Q-L-2012-04077

Sample No. : WA-S-L-2012-28087

Sampling Date	: 08/12/2020	Report Date.	: 19/12/2020
Analysis Start Date.	: 08/12/2020	Analysis End Date.	: 18/12/2020
Sample Location.	: Zayed University	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2971	Sampling Method	: BS 7592
Temperature °C	: 30	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Infrastructure Building Female Side
Sampling Point	: Washroom Tap Water	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection= \leq 1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested result of the sample is found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
HS	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

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Dr. Suresh Murugan Ph.D

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CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: SV1, Raw Water Tank	Sample Collected By: Crystalline Rep

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 – 9.2	7.58
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	1600 Max.	247
Total Dissolved Solids (TDS)	1000 Max.	160
Total Hardness, ppm as CaCO_3	300 Max.	62
Calcium Hardness, ppm as CaCO_3	200 Max.	54
Chlorides (Cl^-), mg/l	250 Max.	39
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	Unobjectionable	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. \Rightarrow	No action recommended.

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: SV1. Filter Water Tank	Sample Collected By: Crystalline Rep

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.51
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	1600 Max.	232
Total Dissolved Solids (TDS)	1000 Max.	152
Total Hardness, ppm as CaCO_3	300 Max.	61
Calcium Hardness, ppm as CaCO_3	200 Max.	59
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	Unobjectionable	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. \Rightarrow	No action recommended.

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: SV2, Raw Water Tank	Sample Collected By: Crystalline Rep

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.63
Conductivity at 25°C, $\mu\text{s/cm}$	1600 Max.	257
Total Dissolved Solids (TDS)	1000 Max.	168
Total Hardness, ppm as CaCO_3	300 Max.	68
Calcium Hardness, ppm as CaCO_3	200 Max.	61
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 ($\text{NO}_3\text{-N}$) 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	Unobjectionable	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. \Rightarrow	No action recommended.

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: SV2, Filter Water Tank	Sample Collected By: Crystalline Rep

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.87
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	1600 Max.	271
Total Dissolved Solids (TDS)	1000 Max.	176
Total Hardness, ppm as CaCO_3	300 Max.	65
Calcium Hardness, ppm as CaCO_3	200 Max.	63
Chlorides (Cl^-), mg/l	250 Max.	27
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	Unobjectionable	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. \Rightarrow	No action recommended.

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: Infrastructure Building, Male Washroom Tap	Sample Collected By: Crystalline Rep

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.81
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	1600 Max.	263
Total Dissolved Solids (TDS)	1000 Max.	171
Total Hardness, ppm as CaCO_3	300 Max.	59
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 ($\text{NO}_3\text{-N}$) 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	Unobjectionable	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. \Rightarrow	No action recommended.

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO MIDDLE EAST	
Site Location: Zayed University, Abu Dhabi	Date: 08-12-2020
Sample Point: Infrastructure Building, Female Washroom Tap	Sample Collected By: Crystalline Rep

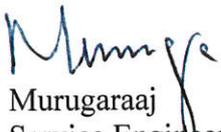
POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	7.89
Conductivity at 25°C, $\mu\text{s/cm}$	1600 Max.	267
Total Dissolved Solids (TDS)	1000 Max.	173
Total Hardness, ppm as CaCO_3	300 Max.	64
Calcium Hardness, ppm as CaCO_3	200 Max.	58
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	Unobjectionable	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. \Rightarrow	No action recommended.

Reported By


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW