



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-2101-32365



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31816

Sampling Date	: 13/01/2021	Report Date.	: 17/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 16/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: APHA 9060 A&B
Temperature °C	: 26	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Naseem A
Sampling Point	: Naseem A	Preservation	: 4-8°C
Sample Description	: Domestic 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
SM	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-2101-32366



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31817

Sampling Date	: 13/01/2021	Report Date.	: 17/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 16/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: APHA 9060 A&B
Temperature °C	: 27	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Naseem B
Sampling Point	: Naseem B	Preservation	: 4-8°C
Sample Description	: Domestic 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
SM	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

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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-2101-32367



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31818

Sampling Date	: 13/01/2021	Report Date.	: 17/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 16/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: APHA 9060 A&B
Temperature °C	: 26.5	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Naseem C
Sampling Point	: Naseem C	Preservation	: 4-8°C
Sample Description	: Domestic 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
SM	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-2101-32368



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31819

Sampling Date	: 13/01/2021	Report Date.	: 17/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 16/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: APHA 9060 A&B
Temperature °C	: 27	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Al Barza
Sampling Point	: Al Barza	Preservation	: 4-8°C
Sample Description	: Domestic 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
SM	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-2101-32369



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31820

Sampling Date	: 13/01/2021	Report Date.	: 17/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 16/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: APHA 9060 A&B
Temperature °C	: 29	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Al Manara
Sampling Point	: Al Manara	Preservation	: 4-8°C
Sample Description	: Domestic 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
SM	SM	None

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

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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-2101-32370



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31821

Sampling Date	: 13/01/2021	Report Date.	: 17/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 16/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: APHA 9060 A&B
Temperature °C	: 26.5	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Fire Water Tank
Sampling Point	: Fire Pump Room	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	-
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	500CFU/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-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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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-2101-32371



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31822

Sampling Date	: 13/01/2021	Report Date.	: 23/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 23/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: BS 7592
Temperature °C	: 26	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Naseem A
Sampling Point	: Naseem A	Preservation	: 10°C
Sample Description	: Domestic 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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

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-2101-32372



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31823

Sampling Date	: 13/01/2021	Report Date.	: 23/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 23/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: BS 7592
Temperature °C	: 27	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Naseem B
Sampling Point	: Naseem B	Preservation	: 10°C
Sample Description	: Domestic 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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

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-2101-32373



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31824

Sampling Date	: 13/01/2021	Report Date.	: 23/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 23/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: BS 7592
Temperature °C	: 26.5	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Naseem C
Sampling Point	: Naseem C	Preservation	: 10°C
Sample Description	: Domestic 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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

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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-2101-32374



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31825

Sampling Date	: 13/01/2021	Report Date.	: 23/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 23/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: BS 7592
Temperature °C	: 27	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Al Barza
Sampling Point	: Al Barza	Preservation	: 10°C
Sample Description	: Domestic 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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories



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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-2101-32375



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31826

Sampling Date	: 13/01/2021	Report Date.	: 23/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 23/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: BS 7592
Temperature °C	: 29	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Domestic Water Tank Al Manara
Sampling Point	: Al Manara	Preservation	: 10°C
Sample Description	: Domestic 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 limit.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

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-2101-32376



Request No. : WA-Q-L-2101-04591

Sample No. : WA-S-L-2101-31827

Sampling Date	: 13/01/2021	Report Date.	: 23/01/2021
Analysis Start Date.	: 13/01/2021	Analysis End Date.	: 23/01/2021
Sample Location.	: Al Bandar	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 2999	Sampling Method	: BS 7592
Temperature °C	: 26.5	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Fire Water Tank
Sampling Point	: Fire Pump Room	Preservation	: 10°C
Sample Description	: Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	<1CFU/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.

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

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

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

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 SERVICE REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT

DATE: 13-01-2021

SITE: AL BHANDAR VILLAGE

LOCATION: NASEEM A
- WATER TANK

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	8.41
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	--	187
Total Dissolved Solids at 180°C (TDS)	1000 Max.	121
Total Hardness, ppm as CaCO_3	300 Max.	67
Calcium Hardness, ppm as CaCO_3	200 Max.	63
Chloride, ppm as Cl^-	250 Max.	52
Iron, ppm as Fe	0.2 Max.	<0.05
Copper (Cu), mg/l	1 Max.	<0.05
Zinc (Zn), mg/l	0.1 Max	<0.05
Nitrate (NO_3^-), mg/l	50 Max.	<1.0
Nitrite (NO_2^-), mg/l	0.2 Max.	<0.05
Fluorides (F)	1.5 Max	<0.05
Treatment Residuals		
Color, mg/l	15 Max.	Clear
Odor	Unobjectionable	ND

*** 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.

Dissolved iron levels are within control limits \Rightarrow

No action recommended.

Service Engineer:

Murugaraaj

Client:

Tafawuq Facility Management

Signature:

Signature:



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT

DATE: 13-01-2021

SITE: AL BHANDAR VILLAGE

LOCATION: NASEEM B - WATER TANK

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	8.59
Conductivity at 25°C, µs/cm	--	164
Total Dissolved Solids at 180°C (TDS)	1000 Max.	106
Total Hardness, ppm as CaCO ₃	300 Max.	63
Calcium Hardness, ppm as CaCO ₃	200 Max.	57
Chloride, ppm as Cl ⁻	250 Max.	51
Iron, ppm as Fe	0.2 Max.	<0.05
Copper (Cu), mg/l	1 Max.	<0.05
Zinc (Zn), mg/l	0.1 Max	<0.05
Nitrate (NO ₃ ⁻), mg/l	50 Max.	<1.0
Nitrite (NO ₂ ⁻), mg/l	0.2 Max.	<0.05
Fluorides (F)	1.5 Max	<0.05

Treatment Residuals

Color, mg/l	15 Max.	Clear
Odor	Unobjectionable	ND

*** 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.

Dissolved iron levels are within control limits ⇨

No action recommended.

Service Engineer:

Murugaraaj

Client:

Tafawuq Facility Management

Signature:

Signature:



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT

DATE: 13-01-2021

SITE: AL BHANDAR VILLAGE

LOCATION: NASEEM C - WATER TANK

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	8.62
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	--	173
Total Dissolved Solids at 180°C (TDS)	1000 Max.	113
Total Hardness, ppm as CaCO_3	300 Max.	73
Calcium Hardness, ppm as CaCO_3	200 Max.	64
Chloride, ppm as Cl^-	250 Max.	39
Iron, ppm as Fe	0.2 Max.	<0.05
Copper (Cu), mg/l	1 Max.	<0.05
Zinc (Zn), mg/l	0.1 Max	<0.05
Nitrate (NO_3^-), mg/l	50 Max.	<1.0
Nitrite (NO_2^-), mg/l	0.2 Max.	<0.05
Fluorides (F)	1.5 Max	<0.05

Treatment Residuals

Color, mg/l	15 Max.	Clear
Odor	Unobjectionable	ND

*** 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. ⇨	No action recommended.
Dissolved iron levels are within control limits ⇨	No action recommended.

Service Engineer: Murugaraaj Client: Tafawuq Facility Management

Signature:

Signature:



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT

DATE: 13-01-2021

SITE: AL BHANDAR VILLAGE

LOCATION:
FIRE PUMP ROOM - FIRE WATER TANK

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	8.17
Conductivity at 25°C, $\mu\text{s}/\text{cm}$	--	169
Total Dissolved Solids at 180°C (TDS)	1000 Max.	112
Total Hardness, ppm as CaCO_3	300 Max.	65
Calcium Hardness, ppm as CaCO_3	200 Max.	60
Chloride, ppm as Cl^-	250 Max.	56
Iron, ppm as Fe	0.2 Max.	<0.05
Copper (Cu), mg/l	1 Max.	<0.05
Zinc (Zn), mg/l	0.1 Max	<0.05
Nitrate (NO_3^-), mg/l	50 Max.	<1.0
Nitrite (NO_2^-), mg/l	0.2 Max.	<0.05
Fluorides (F)	1.5 Max	<0.05

Treatment Residuals

Color, mg/l	15 Max.	Clear
Odor	Unobjectionable	ND

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

COMMENTS:

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

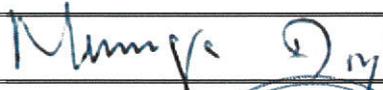
Dissolved iron levels are within control limits \Rightarrow

ACTION:

No action recommended.

No action recommended.

Service Engineer: Murugaraaj Client: Tafawuq Facility Management

Signature:  Signature:





CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT

DATE: 13-01-2021

SITE: AL BHANDAR VILLAGE

LOCATION: AL BARZA - WATER TANK

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	8.53
Conductivity at 25°C, µs/cm	--	182
Total Dissolved Solids at 180°C (TDS)	1000 Max.	118
Total Hardness, ppm as CaCO ₃	300 Max.	71
Calcium Hardness, ppm as CaCO ₃	200 Max.	53
Chloride, ppm as Cl ⁻	250 Max.	51
Iron, ppm as Fe	0.2 Max.	<0.05
Copper (Cu), mg/l	1 Max.	<0.05
Zinc (Zn), mg/l	0.1 Max	<0.05
Nitrate (NO ₃ ⁻), mg/l	50 Max.	<1.0
Nitrite (NO ₂ ⁻), mg/l	0.2 Max.	<0.05
Fluorides (F)	1.5 Max	<0.05
Treatment Residuals		
Color, mg/l	15 Max.	Clear
Odor	Unobjectionable	ND

*** 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. ⇨

Dissolved iron levels are within control limits ⇨

ACTION:

No action recommended.

No action recommended.

Service Engineer:

Murugaraaj

Client:

Tafawuq Facility Management

Signature:

Signature:





CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING SERVICE REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT

DATE: 13-01-2021

SITE: AL BHANDAR VILLAGE

LOCATION: AL MANARA - WATER TANK

POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	POTABLE WATER
pH at 25°C	7.0 - 9.2	8.36
Conductivity at 25°C, µs/cm	--	178
Total Dissolved Solids at 180°C (TDS)	1000 Max.	115
Total Hardness, ppm as CaCO ₃	300 Max.	69
Calcium Hardness, ppm as CaCO ₃	200 Max.	63
Chloride, ppm as Cl ⁻	250 Max.	52
Iron, ppm as Fe	0.2 Max.	<0.05
Copper (Cu), mg/l	1 Max.	<0.05
Zinc (Zn), mg/l	0.1 Max.	<0.05
Nitrate (NO ₃ ⁻), mg/l	50 Max.	<1.0
Nitrite (NO ₂ ⁻), mg/l	0.2 Max.	<0.05
Fluorides (F)	1.5 Max.	<0.05
Treatment Residuals		
Color, mg/l	15 Max.	Clear
Odor	Unobjectionable	ND

*** 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.

Dissolved iron levels are within control limits ⇨

No action recommended.

Service Engineer:

Murugaraaj

Client:

Tafawuq Facility Management

Signature:

Signature:

