



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-2102-35795



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35340

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3960	Sampling Method	: APHA 9060 A&B
Temperature °C	: 24	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: GRP Water Tank
Sampling Point	: Level 37 Roof Plant Room	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 22

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35796



Request No. : WA-Q-L-2102-05038	Received Date : 15/02/2021	Sample No. : WA-S-L-2102-35341
Sampling Date : 15/02/2021	Report Date. : 18/02/2021	
Analysis Start Date. : 15/02/2021	Analysis End Date. : 17/02/2021	
Sample Location. : Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By : Amin ullah	
Sample Identification : Not Given	Sample Submitted as : Water	
Sample Certificate No : 3960	Sampling Method : APHA 9060 A&B	
Temperature °C : 23	Site Observation : Clear	
Sampling Container : Sterile Plastic Bottle	Source of Sample : Water Tank # 05	
Sampling Point : External Pump Room	Preservation : 4-8°C	
Sample Description : Water	Samplerrefno : 23	

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35797



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35342

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3960	Sampling Method	: APHA 9060 A&B
Temperature °C	: 26	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tank # 06
Sampling Point	: External Pump Room	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 24

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	--
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= \leq 1CFU

Limits based on Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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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Crystalline Cleaning & Environmental Services

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

Report No. WA-R-L-2102-35798



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35343

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3960	Sampling Method	: APHA 9060 A&B
Temperature °C	: 25	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tank # 07
Sampling Point	: External Pump Room	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 25

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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 Cleaning & Environmental Services

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

Report No. WA-R-L-2102-35799



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35344

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3960	Sampling Method	: APHA 9060 A&B
Temperature °C	: 24	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Tank # 08
Sampling Point	: External Pump Room	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 26

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35775



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35320

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 22	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Shower Head – Cold Water
Sampling Point	: Basement Shower	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 2

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-Camden Chorleywood Food Research Association.

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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-2102-35777



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35322

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 21	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wash Tap – Cold Water
Sampling Point	: Basement – Clinic	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 4

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-Camden 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-2102-35778



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35323

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 22	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Kitchen – Food Preparation are – Cold Outlet
Sampling Point	: Mezzanine Floor- kitchen	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 5

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-Camden 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-2102-35781



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35326

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 20	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level – 17 A – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 8

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	--
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= \leq 1CFU

Limits based on Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35783



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35328

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 21	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level – 17 B – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 10

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-2102-35785



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35330

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 27	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level – 31 B – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 12

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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

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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-2102-35786



Request No. : WA-Q-L-2102-05038

Received Date : 15/02/2021

Sample No. : WA-S-L-2102-35331

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 20.3	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level – 32 A -Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 13

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	--
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= \leq 1CFU

Limits based on Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-2102-35788



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35333

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level 32 A – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 15

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35789



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35334

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 22	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level 33 A – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 16

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35790



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35335

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 23	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level 34 A – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 17

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35791



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35336

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 21	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level 35 A – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 18

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-2102-35792



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35337

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 22	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry – Cold Water outlet
Sampling Point	: Level 36 A – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 19

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35793



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35338

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3960	Sampling Method	: APHA 9060 A&B
Temperature °C	: 21	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Shower Head – Cold Water
Sampling Point	: Level 36 A – Shower room	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 20

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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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CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Basement Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.14
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	272
3	Total Dissolved Solids (TDS)	Max 1000	176
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	54
7	Total Hardness at 25°C	300	62
Inorganic Chemical Parameter			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	49
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	HQ Mezzanine Floor-Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.24
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	259
3	Total Dissolved Solids (TDS)	Max 1000	168
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	61
7	Total Hardness at 25°C	300	66
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	9Chlorides	Max 250.0	48
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

POTABLE WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	115-02-20219-01-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Wing 17 A Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.31
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	269
3	Total Dissolved Solids (TDS)	Max 1000	176
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	64
7	Total Hardness at 25°C	300	70

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	52
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,


Murugaraaj
Service Engineer





CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Wing 17 B Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.19
2	Conductivity at 25°C, µs/cm	----	262
3	Total Dissolved Solids (TDS)	Max 1000	174
4	Odor	Unobjectionable	ND
5	Calcium Hardness at 25°C	200	63
6	Total Hardness at 25°C	300	68
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	53
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,



Murugaraaj
Service Engineer





CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	Wing 31 B Pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.15
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	257
3	Total Dissolved Solids (TDS)	Max 1000	167
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	56
7	Total Hardness at 25°C	300	60
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	48
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	L 36 Shower Room

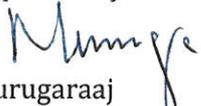
	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.21
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	263
3	Total Dissolved Solids (TDS)	Max 1000	170
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	56
7	Total Hardness at 25°C	300	64
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	46
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Cold Outlet)	Sample Point	L 36 Pantry

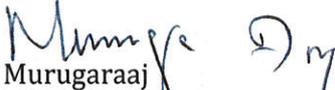
	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.19
2	Conductivity at 25°C, $\mu\text{S}/\text{cm}$	----	258
3	Total Dissolved Solids (TDS)	Max 1000	167
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	59
7	Total Hardness at 25°C	300	63
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	52
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,


Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



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-2102-35776



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35321

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 37	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Shower Head – Hot Water
Sampling Point	: Basement Shower	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 3

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35779



Request No. : WA-Q-L-2102-05038	Received Date : 15/02/2021	Sample No. : WA-S-L-2102-35324
Sampling Date : 15/02/2021	Report Date. : 18/02/2021	
Analysis Start Date. : 15/02/2021	Analysis End Date. : 17/02/2021	
Sample Location. : Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By : Amin ullah	
Sample Identification : Not Given	Sample Submitted as : Water	
Sample Certificate No : 3959	Sampling Method : APHA 9060 A&B	
Temperature °C : 36	Site Observation : Clear	
Sampling Container : Sterile Plastic Bottle	Source of Sample : Kitchen – Food Preparation are – Hot Outlet	
Sampling Point : Mezzanine Floor- kitchen	Preservation : 4-8°C	
Sample Description : Water	Samplerrefno : 6	

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-2102-35782



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35327

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 37	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry - Hot Water Outlets
Sampling Point	: Level – 17 A – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 9

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	--
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= \leq 1CFU

Limits based on Water Quality Regulations 2021. Document no. DoE/PD/R01/003, Table F – 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-2102-35784



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35329

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3959	Sampling Method	: APHA 9060 A&B
Temperature °C	: 36.7	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Pantry - Hot Water Outlets
Sampling Point	: Level – 17 B – Pantry	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 11

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	--
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 Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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-2102-35794



Request No. : WA-Q-L-2102-05038 Received Date : 15/02/2021 Sample No. : WA-S-L-2102-35339

Sampling Date	: 15/02/2021	Report Date.	: 18/02/2021
Analysis Start Date.	: 15/02/2021	Analysis End Date.	: 17/02/2021
Sample Location.	: Abu Dhabi Investment Authorities (ADIA) – Head Quarters	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: 3960	Sampling Method	: APHA 9060 A&B
Temperature °C	: 33	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Shower Head – Hot Water
Sampling Point	: Level 36 A – Shower room	Preservation	: 4-8°C
Sample Description	: Water	Samplerrefno	: 21

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	--
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=<iCFU

Limits based on Water Quality Regulations 2021. Document no. DoE/PD/R01/003. Table F – 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-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

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	Basement Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.37
2	Conductivity at 25°C, $\mu\text{S}/\text{cm}$	----	279
3	Total Dissolved Solids (TDS)	Max 1000	181
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	65
7	Total Hardness at 25°C	300	70

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	52
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugan
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	HQ Mezzanine Floor Kitchen

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.62
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	257
3	Total Dissolved Solids (TDS)	Max 1000	167
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	64
7	Total Hardness at 25°C	300	69
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	48
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugan
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	Wing 17 A pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.32
2	Conductivity at 25°C, $\mu\text{S}/\text{cm}$	---	276
3	Total Dissolved Solids (TDS)	Max 1000	176
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	58
7	Total Hardness at 25°C	300	64

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	48
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet)	Sample Point	Wing 17 B pantry

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.24
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	268
3	Total Dissolved Solids (TDS)	Max 1000	174
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	60
7	Total Hardness at 25°C	300	67
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	51
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS	
1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,
Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

WATER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	Abu Dhabi Investment Authority, Abu Dhabi	Service Visit:	15-02-2021
Sampled By	Crystalline Rep	Location	ADIA - HQ
Sample Type	Potable Water (Hot Outlet))	Sample Point	L 36 Shower Room

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.18
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	273
3	Total Dissolved Solids (TDS)	Max 1000	177
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Calcium Hardness at 25°C	200	57
7	Total Hardness at 25°C	300	69

Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	53
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

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

COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Calcium hardness and Total Hardness levels are satisfactory
3	All inorganic parameters are within the control limit

Reported By,

Murugaraaj
Service Engineer



CLEANER WATER GREENER TOMORROW