



**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-2101-33305



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32841

Sampling Date	: 23/01/2021	Report Date.	: 26/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 25/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3656	Sampling Method	: APHA 9060 A&B
Temperature °C	: 14	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Podium Level 3 ETS Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 4

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

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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-2101-33325



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32861

Sampling Date	: 23/01/2021	Report Date.	: 27/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 26/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3657	Sampling Method	: APHA 9060 A&B
Temperature °C	: 12	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower A Level 32 Lift Machine Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 24

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

Note : Not Detected= $\leq$ 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
SN	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-2101-33303



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32839

Sampling Date	: 23/01/2021	Report Date.	: 26/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 25/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3656	Sampling Method	: APHA 9060 A&B
Temperature °C	: 11.6	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower B Podium Level 3 ETS Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 2

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

Note : Not Detected= $\leq$ 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
SN	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-2101-33324



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32860

Sampling Date	: 23/01/2021	Report Date.	: 27/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 26/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3657	Sampling Method	: APHA 9060 A&B
Temperature °C	: 12	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower B Level 28 Lift Machine Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 23

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

Note : Not Detected= $\leq$ 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
SN	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-2101-33302



Request No. : WA-Q-L-2101-04693

Sample No.: WA-S-L-2101-32838

Sampling Date	: 23/01/2021	Report Date.	: 26/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 25/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3656	Sampling Method	: APHA 9060 A&B
Temperature °C	: 12	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower C Podium Level 3 ETS Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 1

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

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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**

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

Report No. WA-R-L-2101-33317



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32853

Sampling Date	: 23/01/2021	Report Date.	: 27/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 26/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3657	Sampling Method	: APHA 9060 A&B
Temperature °C	: 14	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower C Level 21 Lift Machine Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 16

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

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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-2101-33307



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32843

Sampling Date	: 23/01/2021	Report Date.	: 27/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 26/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3656	Sampling Method	: APHA 9060 A&B
Temperature °C	: 13	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower D Podium Level 3 ETS Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 6

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

Note : Not Detected= $\leq$ 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
SN	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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**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-2101-33310



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32846

Sampling Date	: 23/01/2021	Report Date.	: 27/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 26/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3656	Sampling Method	: APHA 9060 A&B
Temperature °C	: 13	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower D Level 18 Lift Machine Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 9

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

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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-2101-33306



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32842

Sampling Date	: 23/01/2021	Report Date.	: 27/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 26/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3656	Sampling Method	: APHA 9060 A&B
Temperature °C	: 12	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower E Podium Level ETS Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 5

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

Note : Not Detected=<1CFU

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

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

Analyst	Reviewed By	Method Variation
SN	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-2101-33323



Request No. : WA-Q-L-2101-04693

Sample No. : WA-S-L-2101-32859

Sampling Date	: 23/01/2021	Report Date.	: 27/01/2021
Analysis Start Date.	: 23/01/2021	Analysis End Date.	: 26/01/2021
Sample Location.	: Rihan Heights	Sampled By	: Amin ullah
Sample Identification	: Not Given	Sample Submitted as	: water
Sample Certificate No	: 3657	Sampling Method	: APHA 9060 A&B
Temperature °C	: 13	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Tower E Level 22 Lift Machine Room
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Chilled Water	sampler ref. no.	: 22

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

Note : Not Detected= $\leq$ 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
SN	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

## CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	RIHAN HEIGHTS	Visit Date:	23-01-2021
Source of Sample	Chilled Water	Sample Location	Tower A, Podium Level - 03
Sample Point	ETS Room	Sampled By	Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.38
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1961
TDS, ppm	--	1274
Iron, ppm as Fe	0 - 2.0	<0.10
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	850
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory. ⇨	No action recommended.
Conductivity/TDS are found satisfactory. ⇨	No action recommended.
Dissolved iron levels are satisfactory. ⇨	No action recommended.
Nitrite levels are satisfactory. ⇨	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	RIHAN HEIGHTS	Visit Date:	23-01-2021
Source of Sample	Chilled Water	Sample Point	Tower A, Level 32
Sample Point	Lift Machine Room	Sampled By	Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.44
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1957
TDS, ppm	--	1272
Iron, ppm as Fe	0 - 2.0	0.13
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	830
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory. $\Rightarrow$	No action recommended.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



CLEANER WATER GREENER TOMORROW



**CONSULTING TEST REPORT**

<b>Client Name: SERCO, MIDDLE EAST, ABUDHABI</b>			
<b>Site Name:</b>	<b>RIHAN HEIGHTS</b>	<b>Visit Date:</b>	<b>23-01-2021</b>
<b>Source of Sample</b>	<b>Chilled Water</b>	<b>Sample Point</b>	<b>Tower B, Podium Level 03</b>
<b>Sample Point</b>	<b>ETS Room</b>	<b>Sampled By</b>	<b>Crystalline Rep</b>

**CHILLED WATER ANALYSIS**

<b>PARAMETER</b>	<b>CONTROL LIMITS</b>	<b>RESULTS</b>
Ph	9.0 - 10.5	9.45
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2072
TDS, ppm	--	1346
Iron, ppm as Fe	0 - 2.0	<0.10
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	780
Dipslide	<10 <sup>3</sup>	ND

*\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).*

<b>COMMENTS:</b>	<b>ACTION:</b>
The pH level is satisfactory. $\Rightarrow$	No action recommended.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are satisfactory. $\Rightarrow$	No action recommended.

Reported By

*Murugaraaj*  
Murugaraaj  
Service Engineer

*Dy*



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>Client Name: SERCO, MIDDLE EAST, ABUDHABI</b>			
<b>Site Name:</b>	<b>RIHAN HEIGHTS</b>	<b>Visit Date:</b>	<b>23-01-2021</b>
<b>Source of Sample</b>	<b>Chilled Water</b>	<b>Sample Point</b>	<b>Tower B, Level 28</b>
<b>Sample Point</b>	<b>Lift Machine Room</b>	<b>Sampled By</b>	<b>Crystalline Rep</b>

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.61
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1956
TDS, ppm	--	1271
Iron, ppm as Fe	0 - 2.0	<0.10
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	890
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory. ⇨	No action recommended.
Conductivity/TDS are found satisfactory. ⇨	No action recommended.
Dissolved iron levels are satisfactory. ⇨	No action recommended.
Nitrite levels are satisfactory. ⇨	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	RIHAN HEIGHTS	Visit Date:	23-01-2021
Source of Sample	Chilled Water	Sample Point	Tower C. Podium Level -03
Sample Point	ETS Room	Sampled By	Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.72
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2410
TDS, ppm	--	1566
Iron, ppm as Fe	0 - 2.0	<0.10
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	840
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory. $\Rightarrow$	No action recommended.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer





# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>Client Name: SERCO, MIDDLE EAST, ABUDHABI</b>			
<b>Site Name:</b>	<b>RIHAN HEIGHTS</b>	<b>Visit Date:</b>	<b>23-01-2021</b>
<b>Source of Sample</b>	<b>Chilled Water</b>	<b>Sample Point</b>	<b>Tower C, Level 21</b>
<b>Sample Point</b>	<b>Lift Machine Room</b>	<b>Sampled By</b>	<b>Crystalline Rep</b>

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.46
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1961
TDS, ppm	--	1274
Iron, ppm as Fe	0 - 2.0	<0.10
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	860
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory. $\Rightarrow$	No action recommended.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>Client Name: SERCO, MIDDLE EAST, ABUDHABI</b>			
<b>Site Name:</b>	<b>RIHAN HEIGHTS</b>	<b>Visit Date:</b>	<b>23-01-2021</b>
<b>Source of Sample</b>	<b>Chilled Water</b>	<b>Sample Point</b>	<b>Tower D, Podium Level 03</b>
<b>Sample Point</b>	<b>ETS Room</b>	<b>Sampled By</b>	<b>Crystalline Rep</b>

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.74
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2160
TDS, ppm	--	1404
Iron, ppm as Fe	0 - 2.0	<0.10
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	850
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory.	⇒ No action recommended.
Conductivity/TDS are found satisfactory.	⇒ No action recommended.
Dissolved iron levels are satisfactory.	⇒ No action recommended.
Nitrite levels are satisfactory.	⇒ No action recommended.

Reported By

  
Murugaraaj  
Service Engineer

  
D. M. S.



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	RIHAN HEIGHTS	Visit Date:	23-01-2021
Source of Sample	Chilled Water	Sample Point	Tower D, Level 18
Sample Point	Lift Machine Room	Sampled By	Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.57
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2158
TDS, ppm	--	1402
Iron, ppm as Fe	0 - 2.0	<0.10
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	890
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory. $\Rightarrow$	No action recommended.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

<b>Client Name: SERCO, MIDDLE EAST, ABUDHABI</b>			
<b>Site Name:</b>	<b>RIHAN HEIGHTS</b>	<b>Visit Date:</b>	<b>23-01-2021</b>
<b>Source of Sample</b>	<b>Chilled Water</b>	<b>Sample Point</b>	<b>Tower E, Podium Level 03</b>
<b>Sample Point</b>	<b>ETS Room</b>	<b>Sampled By</b>	<b>Crystalline Rep</b>

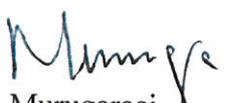
### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.56
Conductivity, $\mu\text{s/cm}$	Max 3500	2300
TDS, ppm	--	1495
Iron, ppm as Fe	0 - 2.0	<0.10
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	940
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory. ⇨	No action recommended.
Conductivity/TDS are found satisfactory. ⇨	No action recommended.
Dissolved iron levels are satisfactory. ⇨	No action recommended.
Nitrite levels are satisfactory. ⇨	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



**CLEANER WATER GREENER TOMORROW**



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

Client Name: SERCO, MIDDLE EAST, ABUDHABI			
Site Name:	RIHAN HEIGHTS	Visit Date:	23-01-2021
Source of Sample	Chilled Water	Sample Point	Tower E, Level - 22
Sample Point	Lift Machine Room	Sampled By	Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	9.87
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1932
TDS, ppm	--	1255
Iron, ppm as Fe	0 - 2.0	0.11
<b>Treatment Residuals</b>		
Nitrite, ppm	> 800	820
Dipslide	<10 <sup>3</sup>	ND

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH level is satisfactory. $\Rightarrow$	No action recommended.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are satisfactory. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



CLEANER WATER GREENER TOMORROW