

TEST REPORT

REPORT NO:-QMTL/R-80953

| | | |
|--|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES | | |
| P.O.Box.131463, Abu Dhabi, U.A.E | | |
| Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80953 |
| Reference: ADIA - HQ | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: HQ Basement- Chiller Sample Onsite Temp: 10°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/03.10 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | <1 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By



ANILA GEORGE
LABORATORY MANAGER

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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80963

| | | |
|--|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80963 |
| Reference: ADIA - HQ | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: 16 th Floor - Chiller Sample Onsite Temp: 13°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/04.30 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | <1 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80966

| | | |
|---|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80966 |
| Reference: ADIA - HQ | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: 32B Plant Room - Chiller Sample Onsite Temp: 26°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/04.35 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | <1 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80972

| | | |
|---|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80972 |
| Reference: ADIA - HQ | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: 37 Plant Room - Chiller Sample Onsite Temp: 29.4°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/04.58 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | 3 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80976

| | | |
|--|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80976 |
| Reference: ADIA – CAR PARKING | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: Secondary Pump Room – Chilled Water Sample Onsite Temp: 13°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/05.31 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | 9 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

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LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80977

| | | |
|--|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80977 |
| Reference: ADIA – CAR PARKING | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: LG Floor Plant Room – Chilled Water Sample Onsite Temp: 15°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/05.35 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | <1 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By



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LABORATORY MANAGER

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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80978

| | | |
|---|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80978 |
| Reference: ADIA – CAR PARKING | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: LG Floor, Water Cooled Sample Onsite Temp: 24°C Sample Receipt Temp: 4°C | Source: Tap | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/05:50 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10@37°C | <1 |
| Total Coliforms | APHA 9222 B | CFU/100ml | Zero | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | Zero | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | Zero | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | Zero | Zero |

REMARKS: The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, NA: Not Applicable

Report prepared by Emp#: 72
Test Method deviation : None
The above test results are only applicable to the sample(s) referred above

Reported By



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80984

| | | |
|---|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80984 |
| Reference: ADIA – CAR PARKING | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: B2 - Chilled Water Sample Onsite Temp: 16°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/07.00 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | <1 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80990

| | | |
|---|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80990 |
| Reference: ADIA – CAR PARKING | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: Level 06 - Chilled Water Sample Onsite Temp: 14°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/08.00 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | <1 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

TEST REPORT

REPORT NO:-QMTL/R-80991

| | | |
|---|---------------------------------|---|
| CLIENT: CRYSTALLINE ENVIRONMENTAL SERVICES P.O.Box.131463, Abu Dhabi, U.A.E Ph:02-6508930/0557167017 | | |
| ATTN:Mr. JASMAN PINTO | | |
| Product: Water | Sampling Method: APHA 9060 A | Sample ID: QMTL/S-80991 |
| Reference: ADIA – CAR PARKING | Sampled By: QMTL Representative | Date Received: 20.11.2019 |
| Sample Description: Roof Chiller (Air Cooled) Sample Onsite Temp: 17°C Sample Receipt Temp: 4°C | Source: Valve | Date(s) Tested: 20-22.11.2019 |
| | Sample Container: 1x500 ml PB | Date Reported: 26.11.2019 |
| | Sample Appearance: Clear | Date of Sampling/Time: 20.11.2019/08.10 PM |
| On-Site Treatment: NA | Tested by Emp#: 55 & 74 | Location: AUH |

TEST RESULTS

| PARAMETERS | TEST METHODS (APHA 23 RD EDITION) | UNITS | SPECIFICATIONS | RESULTS |
|---------------------------------|---|-----------|----------------|-------------|
| MICROBIOLOGICAL ANALYSIS | | | | |
| Total Bacterial Count | APHA 9215 B | CFU/ml | 10,000 | <1 |
| Total Coliforms | APHA 9222 B | CFU/100ml | - | Zero |
| Faecal coliform | APHA 9222 D | CFU/100ml | - | Zero |
| Pseudomonas aeruginosa | APHA 9213 E | CFU/100ml | - | Zero |
| Escherichia coli | APHA 9222 H & I | CFU/100ml | - | Zero |

REMARKS: The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.

Key Words:- CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NA: Not Applicable

Report prepared by Emp#: 72

Test Method deviation : None

The above test results are only applicable to the sample(s) referred above

Reported By

ANILA GEORGE
LABORATORY MANAGER



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END OF REPORT

CHILLED WATER ANALYSIS REPORT

| | | | |
|--|---|------------------------|---------------------------|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA -HQ |
| Sample Type | Chilled Water | Sample Point | HQ-Basement Chilled Water |

| TEST RESULT | | | |
|-------------|--|------------------|--------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 10.43 |
| 2 | Conductivity at 25°C, $\mu\text{s/cm}$ | Max 3500 | 1209 |
| 3 | TDS, ppm | --- | 785 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.14 |
| 5 | Nitrite, ppm. | >800 | 580 |
| 6 | Dip slide | <10 ³ | ND |

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

| COMMENTS AND RECOMMENDATIONS | |
|------------------------------|---|
| | • pH Levels are satisfactory – No action recommended. |
| | • Nitrite levels are low – Please maintain the nitrite level above 800PPM |
| | |

Reported By,
Murugara
Service Engineer



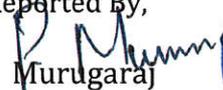
CHILLED WATER ANALYSIS REPORT

| | | | |
|--|---|-----------------|----------------------|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA -HQ |
| Sample Type | Chilled Water | Sample Point | HQ-L-16 - Plant Room |

| TEST RESULT | | | |
|-------------|-----------------------------|------------------|--------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 10.46 |
| 2 | Conductivity at 25°C, µs/cm | Max 3500 | 1185 |
| 3 | TDS, ppm | --- | 775 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.13 |
| 5 | Nitrite, ppm. | >800 | 480 |
| 6 | Dip slide | <10 ³ | ND |

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

| COMMENTS AND RECOMMENDATIONS |
|--|
| <ul style="list-style-type: none"> pH Levels are satisfactory – No action recommended. Nitrite levels are low – Please maintain the nitrite level above 800PPM |
| |

Reported By,

 Murugara
 Service Engineer



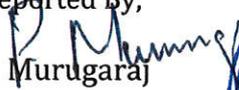
CHILLED WATER ANALYSIS REPORT

| | | | |
|--|---|------------------------|-----------------------|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA -HQ |
| Sample Type | Chilled Water | Sample Point | HQ-L-32 Chilled Water |

| TEST RESULT | | | |
|-------------|-----------------------------|------------------|--------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 9.74 |
| 2 | Conductivity at 25°C, µs/cm | Max 3500 | 2230 |
| 3 | TDS, ppm | --- | 1448 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.19 |
| 5 | Nitrite, ppm. | >800 | 850 |
| 6 | Dip slide | <10 ³ | ND |

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

| COMMENTS AND RECOMMENDATIONS |
|---|
| <ul style="list-style-type: none"> pH Levels are satisfactory - No action recommended. Nitrite Levels are satisfactory - No action recommended. |
| |

Reported By,

 Murugara
 Service Engineer



CHILLED WATER ANALYSIS REPORT

| | | | |
|--|---|------------------------|-----------------------|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA -HQ |
| Sample Type | Chilled Water | Sample Point | HQ-L-37 Chilled Water |

| TEST RESULT | | | |
|-------------|---|------------------|--------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 9.71 |
| 2 | Conductivity at 25°C, $\mu\text{s}/\text{cm}$ | Max 3500 | 230 |
| 3 | TDS, ppm | --- | 149 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.12 |
| 5 | Nitrite, ppm. | >800 | 110 |
| 6 | Dip slide | <10 ³ | ND |

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

| COMMENTS AND RECOMMENDATIONS |
|--|
| <ul style="list-style-type: none"> pH Levels are satisfactory – No action recommended. Nitrite levels are low – Please maintain the nitrite level above 800PPM |
| |

Reported By,
Murugara
Service Engineer



CHILLED WATER ANALYSIS REPORT

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|--|--|------------------------|---------------------------------------|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA -Car Parking |
| Sample Type | Chilled Water | Sample Point | GF-Chiller Yard - Water Cooled |

| TEST RESULT | | | |
|--------------------|---|-----------------------|---------------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 9.12 |
| 2 | Conductivity at 25°C, $\mu\text{s}/\text{cm}$ | Max 3500 | 1182 |
| 3 | TDS, ppm | --- | 768 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.05 |
| 5 | Nitrite, ppm. | >800 | <5 |
| 6 | Dip slide | <10 ³ | ND |

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

| COMMENTS AND RECOMMENDATIONS |
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| <ul style="list-style-type: none"> pH Levels are satisfactory - No action recommended. Nitrite levels are low - Please maintain the nitrite level above 800PPM |
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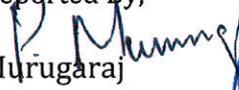
CHILLED WATER ANALYSIS REPORT

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|--|--|------------------------|---|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA -Car Parking |
| Sample Type | Chilled Water | Sample Point | Roof Top Chiller Yard - Air Cooled |

| TEST RESULT | | | |
|-------------|-----------------------------|------------------|--------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 10.48 |
| 2 | Conductivity at 25°C, µs/cm | Max 3500 | 1120 |
| 3 | TDS, ppm | --- | 728 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.24 |
| 5 | Nitrite, ppm. | >800 | 450 |
| 6 | Dip slide | <10 ³ | ND |

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

| COMMENTS AND RECOMMENDATIONS |
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| <ul style="list-style-type: none"> pH Levels are satisfactory – No action recommended. Nitrite levels are low – Please maintain the nitrite level above 800PPM |
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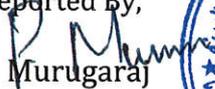
CHILLED WATER ANALYSIS REPORT

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|--|--|------------------------|-------------------------------|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA - Car Parking |
| Sample Type | Chilled Water | Sample Point | GF-Secondary Pump Room |

| TEST RESULT | | | |
|-------------|-----------------------------|------------------|--------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 10.49 |
| 2 | Conductivity at 25°C, µs/cm | Max 3500 | 1199 |
| 3 | TDS, ppm | --- | 779 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.23 |
| 5 | Nitrite, ppm. | >800 | 580 |
| 6 | Dip slide | <10 ³ | ND |

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

| COMMENTS AND RECOMMENDATIONS |
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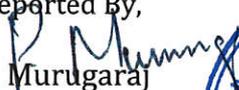
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|--|--|------------------------|--------------------------|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA -Car Parking |
| Sample Type | Chilled Water | Sample Point | B2-Chilled Water |

| TEST RESULT | | | |
|-------------|---|----------------|--------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 10.47 |
| 2 | Conductivity at 25°C, $\mu\text{s}/\text{cm}$ | Max 3500 | 1204 |
| 3 | TDS, ppm | --- | 782 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.04 |
| 5 | Nitrite, ppm. | >800 | 560 |
| 6 | Dip slide | $<10^3$ | ND |

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

| COMMENTS AND RECOMMENDATIONS |
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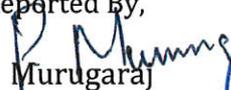
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|--|---|-----------------|---------------------|
| Client Name: SERCO, MIDDLE EAST | | | |
| Site location | Abu Dhabi Investment Authority, Abu Dhabi | Service Visit: | 20-11-2019 |
| Sampled By | Crystalline Rep | Sample Location | ADIA -Car Parking |
| Sample Type | Chilled Water | Sample Point | L-06, Chilled Water |

| TEST RESULT | | | |
|-------------|-----------------------------|------------------|--------------|
| No | PARAMETER | CONTROL LIMITS | TEST RESULTS |
| 1 | pH at 25°C | 9.0 - 10.5 | 10.49 |
| 2 | Conductivity at 25°C, µs/cm | Max 3500 | 1198 |
| 3 | TDS, ppm | --- | 778 |
| 4 | Iron, ppm as Fe | 0 - 2.0 | 0.06 |
| 5 | Nitrite, ppm. | >800 | 630 |
| 6 | Dip slide | <10 ³ | ND |

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

| COMMENTS AND RECOMMENDATIONS |
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