

**TEST REPORT**

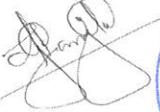
Report No: QMTL/R-136227/2020

|   |                                 |                    |                           |
|---|---------------------------------|--------------------|---------------------------|
| <b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b><br>Abu Dhabi PO Box : 131463<br>United Arab Emirates |                                 | Sample ID          | QMTL/S-136227             |
|   |                                 | Date Received      | 25 Nov 2020               |
|   |                                 | Date(s) Tested     | 25 Nov 2020 - 27 Nov 2020 |
| <b>ATTN : MR. JASMAN PINTO</b>  |                                 | Date Reported      | 29 Nov 2020               |
| Sample Description  | <b>P1-Hydrotherapy Pool</b>     |                    |                           |
| Sample Type   | Water                           | Sampling Method    | QMTL-WI-15                |
| Client Name/Project   | NP                              | Sampled By         | QMTL Representative       |
| Location  | Healthpoint Hospital, Abu Dhabi | Sampling Date/Time | 25.11.2020/10:45 AM       |
| Sample Container  | 1x500ml PB                      | Sampling Point     | Pool                      |
| Sample Receipt Temp   | 4°C                             | Sample Onsite Temp | NP                        |
| Sample Appearance   | Clear                           | On-site Treatment  | NA                        |
| Reference   | NP                              |                    |                           |

**TEST RESULTS**

| PARAMETERS  | TEST METHODS  | UNITS  | GUIDELINES | RESULTS |
|---|---|--------|------------|---------|
| <b>MICROBIOLOGICAL ANALYSIS</b>   |   |        |            |         |
| Total bacterial count(Dip slide )   | Kit Method  | CFU/ml | 1000       | <1      |
| Remarks   | The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) specifications for Pool Water with respect to the above tests only. |        |            |         |
| Keywords  | CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction            |        |            |         |
| Test method deviation   | None  |        |            |         |
| Test performed by Emp#  | 113 & 74  |        |            |         |
| Report prepared by Emp#   | 72  |        |            |         |
| 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-136223/2020

|   |                                 |                           |                     |
|---|---------------------------------|---------------------------|---------------------|
| <b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b><br>Abu Dhabi PO Box : 131463<br>United Arab Emirates<br><br><b>ATTN : MR. JASMAN PINTO</b> | Sample ID                       | QMTL/S-136223             |                     |
|   | Date Received                   | 25 Nov 2020               |                     |
|   | Date(s) Tested                  | 25 Nov 2020 - 27 Nov 2020 |                     |
|   | Date Reported                   | 29 Nov 2020               |                     |
| Sample Description  | L-4, Cooling Tower 01           |                           |                     |
| Sample Type   | Water                           | Sampling Method           | QMTL-WI-15          |
| Client Name/Project   | NP                              | Sampled By                | QMTL Representative |
| Location  | Healthpoint Hospital, Abu Dhabi | Sampling Date/Time        | 25.11.2020/9:45 AM  |
| Sample Container  | 1x500ml PB                      | Sampling Point            | Cooling Tower       |
| Sample Receipt Temp   | 4°C                             | Sample Onsite Temp        | 23.2°C              |
| Sample Appearance   | Clear                           | On-site Treatment         | NA                  |
| Reference   | NP                              |                           |                     |

## TEST RESULTS

| PARAMETERS                      | TEST METHODS                   | UNITS      | GUIDELINES | RESULTS |
|---------------------------------|--------------------------------|------------|------------|---------|
| <b>MICROBIOLOGICAL ANALYSIS</b> |                                |            |            |         |
| Total Bacterial Count           | APHA 9215 B (23rd Edition)     | CFU/ml     | 10,000     | 150     |
| Total Coliforms                 | APHA 9222 B (23rd Edition)     | CFU/100 ml | -          | Zero    |
| Fecal coliforms                 | APHA 9222 D (23rd Edition)     | CFU/100 ml | -          | Zero    |
| Pseudomonas aeruginosa          | APHA 9213 E (23rd Edition)     | CFU/100 ml | -          | Zero    |
| E.coli                          | APHA 9222 H & I (23rd Edition) | CFU/100 ml | -          | Zero    |

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

|          |  |
|----------|--|
| Keywords | CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction |
|----------|--|

|                       |      |
|-----------------------|------|
| Test method deviation | None |
|-----------------------|------|

|                        |          |
|------------------------|----------|
| Test performed by Emp# | 113 & 74 |
|------------------------|----------|

|                         |    |
|-------------------------|----|
| Report prepared by Emp# | 72 |
|-------------------------|----|

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

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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-136224/2020

|   |                                 |                           |                     |
|---|---------------------------------|---------------------------|---------------------|
| <b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b><br>Abu Dhabi PO Box : 131463<br>United Arab Emirates<br><br><b>ATTN : MR. JASMAN PINTO</b> | Sample ID                       | QMTL/S-136224             |                     |
|   | Date Received                   | 25 Nov 2020               |                     |
|   | Date(s) Tested                  | 25 Nov 2020 - 27 Nov 2020 |                     |
|   | Date Reported                   | 29 Nov 2020               |                     |
| Sample Description  | <b>L-4, Cooling Tower 02</b>    |                           |                     |
| Sample Type   | Water                           | Sampling Method           | QMTL-WI-15          |
| Client Name/Project   | NP                              | Sampled By                | QMTL Representative |
| Location  | Healthpoint Hospital, Abu Dhabi | Sampling Date/Time        | 25.11.2020/10:00 AM |
| Sample Container  | 1x500ml PB                      | Sampling Point            | Cooling Tower       |
| Sample Receipt Temp   | 4°C                             | Sample Onsite Temp        | 23°C                |
| Sample Appearance   | Clear                           | On-site Treatment         | NA                  |
| Reference   | NP                              |                           |                     |

## TEST RESULTS

| PARAMETERS                      | TEST METHODS                   | UNITS      | GUIDELINES | RESULTS |
|---------------------------------|--------------------------------|------------|------------|---------|
| <b>MICROBIOLOGICAL ANALYSIS</b> |                                |            |            |         |
| Total Bacterial Count           | APHA 9215 B (23rd Edition)     | CFU/ml     | 10,000     | 180     |
| Total Coliforms                 | APHA 9222 B (23rd Edition)     | CFU/100 ml | -          | Zero    |
| Fecal coliforms                 | APHA 9222 D (23rd Edition)     | CFU/100 ml | -          | Zero    |
| Pseudomonas aeruginosa          | APHA 9213 E (23rd Edition)     | CFU/100 ml | -          | Zero    |
| E.coli                          | APHA 9222 H & I (23rd Edition) | CFU/100 ml | -          | Zero    |

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

|          |  |
|----------|--|
| Keywords | CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction |
|----------|--|

|                       |      |
|-----------------------|------|
| Test method deviation | None |
|-----------------------|------|

|                        |          |
|------------------------|----------|
| Test performed by Emp# | 113 & 74 |
|------------------------|----------|

|                         |    |
|-------------------------|----|
| Report prepared by Emp# | 72 |
|-------------------------|----|

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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-136225/2020

|   |                                 |                    |                           |
|---|---------------------------------|--------------------|---------------------------|
| <b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b><br>Abu Dhabi PO Box : 131463<br>United Arab Emirates<br><br><b>ATTN : MR. JASMAN PINTO</b> |                                 | Sample ID          | QMTL/S-136225             |
|   |                                 | Date Received      | 25 Nov 2020               |
|   |                                 | Date(s) Tested     | 25 Nov 2020 - 27 Nov 2020 |
|   |                                 | Date Reported      | 29 Nov 2020               |
| Sample Description  | <b>L-4, Cooling Tower 03</b>    |                    |                           |
| Sample Type   | Water                           | Sampling Method    | QMTL-WI-15                |
| Client Name/Project   | NP                              | Sampled By         | QMTL Representative       |
| Location  | Healthpoint Hospital, Abu Dhabi | Sampling Date/Time | 25.11.2020/10:15 AM       |
| Sample Container  | 1x500ml PB                      | Sampling Point     | Cooling Tower             |
| Sample Receipt Temp   | 4°C                             | Sample Onsite Temp | 23.6°C                    |
| Sample Appearance   | Clear                           | On-site Treatment  | NA                        |
| Reference   | NP                              |                    |                           |

## TEST RESULTS

| PARAMETERS                      | TEST METHODS                   | UNITS      | GUIDELINES | RESULTS |
|---------------------------------|--------------------------------|------------|------------|---------|
| <b>MICROBIOLOGICAL ANALYSIS</b> |                                |            |            |         |
| Total Bacterial Count           | APHA 9215 B (23rd Edition)     | CFU/ml     | 10,000     | 160     |
| Total Coliforms                 | APHA 9222 B (23rd Edition)     | CFU/100 ml | -          | Zero    |
| Fecal coliforms                 | APHA 9222 D (23rd Edition)     | CFU/100 ml | -          | Zero    |
| Pseudomonas aeruginosa          | APHA 9213 E (23rd Edition)     | CFU/100 ml | -          | Zero    |
| E.coli                          | APHA 9222 H & I (23rd Edition) | CFU/100 ml | -          | Zero    |

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

|          |  |
|----------|--|
| Keywords | CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction |
|----------|--|

|                       |      |
|-----------------------|------|
| Test method deviation | None |
|-----------------------|------|

|                        |          |
|------------------------|----------|
| Test performed by Emp# | 113 & 74 |
|------------------------|----------|

|                         |    |
|-------------------------|----|
| Report prepared by Emp# | 72 |
|-------------------------|----|

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## TEST REPORT

Report No: QMTL/R-136226/2020

|   |                                 |                    |                           |
|---|---------------------------------|--------------------|---------------------------|
| <b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b><br>Abu Dhabi PO Box : 131463<br>United Arab Emirates |                                 | Sample ID          | QMTL/S-136226             |
|   |                                 | Date Received      | 25 Nov 2020               |
|   |                                 | Date(s) Tested     | 25 Nov 2020 - 27 Nov 2020 |
| <b>ATTN : MR. JASMAN PINTO</b>  |                                 | Date Reported      | 29 Nov 2020               |
| Sample Description  | <b>L-4, Cooling Tower 04</b>    |                    |                           |
| Sample Type   | Water                           | Sampling Method    | QMTL-WI-15                |
| Client Name/Project   | NP                              | Sampled By         | QMTL Representative       |
| Location  | Healthpoint Hospital, Abu Dhabi | Sampling Date/Time | 25.11.2020/10:30 AM       |
| Sample Container  | 1x500ml PB                      | Sampling Point     | Cooling Tower             |
| Sample Receipt Temp   | 4°C                             | Sample Onsite Temp | 24°C                      |
| Sample Appearance   | Clear                           | On-site Treatment  | NA                        |
| Reference   | NP                              |                    |                           |

## TEST RESULTS

| PARAMETERS                      | TEST METHODS                   | UNITS      | GUIDELINES | RESULTS |
|---------------------------------|--------------------------------|------------|------------|---------|
| <b>MICROBIOLOGICAL ANALYSIS</b> |                                |            |            |         |
| Total Bacterial Count           | APHA 9215 B (23rd Edition)     | CFU/ml     | 10,000     | 110     |
| Total Coliforms                 | APHA 9222 B (23rd Edition)     | CFU/100 ml | -          | Zero    |
| Fecal coliforms                 | APHA 9222 D (23rd Edition)     | CFU/100 ml | -          | Zero    |
| Pseudomonas aeruginosa          | APHA 9213 E (23rd Edition)     | CFU/100 ml | -          | Zero    |
| E.coli                          | APHA 9222 H & I (23rd Edition) | CFU/100 ml | -          | Zero    |

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

|          |  |
|----------|--|
| Keywords | CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction |
|----------|--|

|                       |      |
|-----------------------|------|
| Test method deviation | None |
|-----------------------|------|

|                        |          |
|------------------------|----------|
| Test performed by Emp# | 113 & 74 |
|------------------------|----------|

|                         |    |
|-------------------------|----|
| Report prepared by Emp# | 72 |
|-------------------------|----|

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## TEST REPORT

Report No: QMTL/R-136221/2020

|   |   |                           |                     |
|---|---|---------------------------|---------------------|
| <b>CLIENT</b> : CRYSTALLINE ENVIRONMENTAL SERVICES<br>Abu Dhabi PO Box : 131463<br>United Arab Emirates<br><br><b>ATTN</b> : MR. JASMAN PINTO | Sample ID                                   | QMTL/S-136221             |                     |
|   | Date Received                               | 25 Nov 2020               |                     |
|   | Date(s) Tested                              | 25 Nov 2020 - 30 Nov 2020 |                     |
|   | Date Reported                               | 01 Dec 2020               |                     |
| Sample Description  | Copper- Silver Ionisation- P2 Water Tank#05 |                           |                     |
| Sample Type   | Water                                       | Sampling Method           | QMTL-SOP-128        |
| Client Name/Project   | NP  | Sampled By                | QMTL Representative |
| Location  | Healthpoint Hospital, Abu Dhabi             | Sampling Date/Time        | 25.11.2020/09:48 AM |
| Sample Container  | 1x500ml PB                                  | Sampling Point            | Tank                |
| Sample Receipt Temp   | 18°C  | Sample Onsite Temp        | 29°C                |
| Sample Appearance   | Clear                                       | On-site Treatment         | NA                  |
| Reference   | NP  |                           |                     |

### TEST RESULTS

| PARAMETERS                              | TEST METHODS                               | UNITS | GUIDELINES       | RESULTS     |
|---|--|-------|------------------|-------------|
| <b>CHEMICAL PARAMETERS</b>              |  |       |                  |             |
| Calcium Hardness*                       | APHA 3500-Ca B (23rd Edition)              | mg/L  | Max 200          | 56.6        |
| Chloride*                               | APHA 4500 Cl <sup>-</sup> B (23rd Edition) | mg/L  | Max 250          | 47.8        |
| Conductivity*                           | APHA 2510 B (23rd Edition)                 | µs/cm | -                | 210@24.1°C  |
| pH*                                     | APHA 4500 H+B (23rd Edition)               | -     | Min 7.0-Max 9.2  | 7.64@24.1°C |
| Total Dissolved Solids*                 | APHA 2540-C (23rd Edition)                 | mg/L  | Min 100-Max 1000 | 136.0       |
| Total Hardness as (CaCO <sub>3</sub> )* | APHA 2340-C (23rd Edition)                 | mg/L  | Max 300          | 62.2        |
| <b>METALS</b>                           |  |       |                  |             |
| Copper*                                 | APHA 3120 B (23rd Edition)                 | mg/L  | Max 1.0          | <0.05       |
| Iron*                                   | APHA 3120 B (23rd Edition)                 | mg/L  | Max 0.20         | <0.05       |
| Silver                                  | APHA 3120 B (23rd Edition)                 | mg/L  | -                | <0.05       |

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

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

|          |  |
|----------|--|
| Keywords | pH: Potential Hydrogen, APHA: American Public Health Association, NA: Not Applicable, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure, NP: Not Provided. |
|----------|--|

|                         |      |
|-------------------------|------|
| Test method deviation   | None |
| Test performed by Emp#  | 13   |
| Report prepared by Emp# | 22   |

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

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 LABORATORY MANAGER  


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## TEST REPORT

Report No: QMTL/R-136222/2020

|  |   |                    |                           |
|--|---|--------------------|---------------------------|
| CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES<br>Abu Dhabi PO Box : 131463<br>United Arab Emirates |   | Sample ID          | QMTL/S-136222             |
| ATTN : MR. JASMAN PINTO  |   | Date Received      | 25 Nov 2020               |
|  |   | Date(s) Tested     | 25 Nov 2020 - 30 Nov 2020 |
|  |   | Date Reported      | 01 Dec 2020               |
| Sample Description   | Copper- Silver Ionisation- P2 Water Tank#06 |                    |                           |
| Sample Type  | Water                                       | Sampling Method    | QMTL-SOP-128              |
| Client Name/Project  | NP  | Sampled By         | QMTL Representative       |
| Location   | Healthpoint Hospital, Abu Dhabi             | Sampling Date/Time | 25.11.2020/09:58 AM       |
| Sample Container   | 1x500ml PB                                  | Sampling Point     | Tank                      |
| Sample Receipt Temp  | 18°C  | Sample Onsite Temp | 21°C                      |
| Sample Appearance  | Clear                                       | On-site Treatment  | NA                        |
| Reference  | NP  |                    |                           |

### TEST RESULTS

| PARAMETERS                              | TEST METHODS                               | UNITS | GUIDELINES       | RESULTS     |
|---|--|-------|------------------|-------------|
| <b>CHEMICAL PARAMETERS</b>              |  |       |                  |             |
| Calcium Hardness*                       | APHA 3500-Ca B (23rd Edition)              | mg/L  | Max 200          | 58.5        |
| Chloride*                               | APHA 4500 Cl <sup>-</sup> B (23rd Edition) | mg/L  | Max 250          | 46.0        |
| Conductivity*                           | APHA 2510 B (23rd Edition)                 | µs/cm | -                | 208@24.1°C  |
| pH*                                     | APHA 4500 H+B (23rd Edition)               | -     | Min 7.0-Max 9.2  | 7.55@24.2°C |
| Total Dissolved Solids*                 | APHA 2540-C (23rd Edition)                 | mg/L  | Min 100-Max 1000 | 134.0       |
| Total Hardness as (CaCO <sub>3</sub> )* | APHA 2340-C (23rd Edition)                 | mg/L  | Max 300          | 60.3        |
| <b>METALS</b>                           |  |       |                  |             |
| Copper*                                 | APHA 3120 B (23rd Edition)                 | mg/L  | Max 1.0          | <0.05       |
| Iron*                                   | APHA 3120 B (23rd Edition)                 | mg/L  | Max 0.20         | <0.05       |
| Silver                                  | APHA 3120 B (23rd Edition)                 | mg/L  | -                | <0.05       |

The Analysis results denoted by (\*) are part of the laboratory ENAS Accreditation to ISO/IEC 17025 : 2017.

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

|          |  |
|----------|--|
| Keywords | pH: Potential Hydrogen, APHA: American Public Health Association, NA: Not Applicable, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure, NP: Not Provided. |
|----------|--|

|                       |      |
|-----------------------|------|
| Test method deviation | None |
|-----------------------|------|

|                        |    |
|------------------------|----|
| Test performed by Emp# | 13 |
|------------------------|----|

|                         |    |
|-------------------------|----|
| Report prepared by Emp# | 22 |
|-------------------------|----|

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

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