taaleem inspiring young minds | NABIH E. AZZAM & PARTNERS | ALHASHEMI | gce consultants | HBC | ENTIRE

Project: HARROW SCHOOL - @ PLOT - 3840119, AL THANYAH SECOND, DUBAI

INSPECTION REQUEST FORM

Project no.:	AH-1202 / HBC-D352	**Request No.**	AH-D352-IR-EN-T&C-PL-06 -REV-00
Client:	TAALEEM MANAGEMENT LLC	**Date**	25-Aug-26
Cost Consultant:	NABIH E. AZZAH & PARTNERS	**Classification**	Plumbing-T&C
Lead Consultant:	AL HASHEMI PLANNERS, ARCHITECTS, ENGINEERS	**Activity**	T&C
MEP Consultant:	GREEN CONCEPT ENGINEERING CONSULTANTS	**Temperature**	
Main Contractor:	AL HIKMA BUILDING CONTRACTING LLC		
MEP Contractor:	ENTIRE TECHNICAL SERVICE		

RECEIVED 25 AUG 2026

Note: Approved drawings/material submittals shall be available at the time of inspection

The Following work is completed as per the Contract Documents.

You are requested to check the same as specification :-

Inspection Request for Disinfection & Laboratory Testing of Water Supply System at, as per the attached Report & highlighted drawings.

Contractor's Project Manager: Eng.Sukesan J **Sub contractor:** Eng. Salim / Sunil Gpta

Mep Coordinator.: Eng. Satish **Requested Date:** 26-Aug-26 **Time for inspec.:**

Engineer's Comments and Observations :

Attached report reviewed and found satisfactory.

Proceed with the Feather procedure.

Action Required by The Contractor:

- ☐ Complete corrective work by
- ☐ Re-Submit for inspection
- ☑ Proceed as noted above
- ☐ Other

Issued By :

Name: Sujith Signature: Date: 04/09/26.

Consultant's Representative :

Name: M. Ihsan Signature: 4-9-26 Date:

Client's Representative (if any):

Name: Signature: Date:

HBC RECEIVED 04 SEP 2026

Consultant Receipt	Client Repr. Receipt	Contractor Receipt

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LB-TEST-146

Laboratory Test Report

Microbiology

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	**: MA26-178672-1/5-M/01**	**Report Date**	**: 13.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	: 2083264
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Surface Temp. on Receipt^	: 4.7°C
Submitted By	: 10801	Receiving Date	: 11.08.2026
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported in Cool Box
Sampling Point	: Block F, GF - Staff Washroom Tap	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 13.08.2026
Sample Volume	: 500 ml	Tested By	: 10274, 10785

Results

^Instrument ID: LSM-INS-062

Parameters	Methods	Units	Results	Guideline Limits
Heterotrophic Plate Count	*APHA 9215 B, 24th Edition*	*CFU/ml*	0	500*
Total Coliforms	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#
E.coli	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#

Guideline

*EPA Standard - National Primary Drinking Water Standard

#GSO 149:2021 Gulf Technical Regulation - Unbottled Drinking Water

Abbreviations :

CFU - colony forming units
APHA - American Public Health Association
BS EN ISO - British Standard European Norm International Organization for Standardization
n/s - Not Specified
n/a - Not Applicable
MPN - Most Probable Number

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per LS-WI-M014 (Non-accredited)

Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
"The stated expanded uncertainty is derived by multiplying the standard uncertainty by a coverage factor (k=2), ensuring an approximate 95% confidence level"

Sibin Sasidharan
Senior Analyst

AQUA CURE TRADING FZE (DUBAI BRANCH) P.O. Box: 263151 National Industries Park Dubai - U.A.E

Joby Daniel
Laboratory Manager (Microbiology)

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LB-TEST-146

Laboratory Test Report

Microbiology

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	**: MA26-178672-2/5-M/01**	**Report Date**	**: 13.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	: 2083265
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Surface Temp. on Receipt^	: 5.4°C
Submitted By	: 10801	Receiving Date	: 11.08.2026
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported in Cool Box
Sampling Point	: Block E, GF- Male Washroom Tap	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 13.08.2026
Sample Volume	: 500 ml	Tested By	: 10274, 10785

Results

^Instrument ID: LSM-INS-062

Parameters	Methods	Units	Results	Guideline Limits
Heterotrophic Plate Count	*APHA 9215 B, 24th Edition*	*CFU/ml*	0	500*
Total Coliforms	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#
E.coli	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#

Guideline

*EPA Standard - National Primary Drinking Water Standard

#GSO 149:2021 Gulf Technical Regulation - Unbottled Drinking Water

Abbreviations :

CFU - colony forming units
APHA - American Public Health Association
BS EN ISO - British Standard European Norm International Organization for Standardization
n/s - Not Specified
n/a - Not Applicable
MPN - Most Probable Number

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
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∞ Sampling Procedure as per LS-WI-M014 (Non-accredited)

Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
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LB-TEST-146

Laboratory Test Report

Microbiology

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	: **MA26-178672-3/5-M/01**	**Report Date**	: **13.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	:2083266
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Surface Temp. on Receipt^	: 4.4°C
Submitted By	: 10801	Receiving Date	: 11.08.2026
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported in Cool Box
Sampling Point	: Block D, FF- Female Washroom Tap	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 13.08.2026
Sample Volume	: 500 ml	Tested By	: 10274, 10785

Results

^Instrument ID: LSM-INS-062

Parameters	Methods	Units	Results	Guideline Limits
Heterotrophic Plate Count	*APHA 9215 B, 24th Edition*	*CFU/ml*	0	500*
Total Coliforms	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#
E.coli	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#

Guideline

*EPA Standard - National Primary Drinking Water Standard

#GSO 149:2021 Gulf Technical Regulation - Unbottled Drinking Water

Abbreviations :

CFU - colony forming units
APHA - American Public Health Association
BS EN ISO - British Standard European Norm International Organization for Standardization
n/s - Not Specified
n/a - Not Applicable
MPN - Most Probable Number

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per LS-WI-M014 (Non-accredited)

Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
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Laboratory Test Report

Microbiology

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	: **MA26-178672-4/5-M/01**	**Report Date**	: **13.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	:335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	:412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	:2083267
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Surface Temp. on Receipt^	: 5.8°C
Submitted By	: 10801	Receiving Date	:11.08.2026
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported in Cool Box
Sampling Point	: Service Block Basement RCC Tank	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 13.08.2026
Sample Volume	: 500 ml	Tested By	: 10274, 10785

Results

^Instrument ID: LSM-INS-062

Parameters	Methods	Units	Results	Guideline Limits
Heterotrophic Plate Count	*APHA 9215 B, 24th Edition*	*CFU/ml*	0	500*
Total Coliforms	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#
E.coli	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#

Guideline

*EPA Standard - National Primary Drinking Water Standard

#GSO 149:2021 Gulf Technical Regulation - Unbottled Drinking Water

Abbreviations :

CFU - colony forming units
APHA - American Public Health Association
BS EN ISO - British Standard European Norm International Organization for Standardization
n/s - Not Specified
n/a - Not Applicable
MPN - Most Probable Number

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per LS-WI-M014 (Non-accredited)

Expanded Uncertainty :

HPC ±0.03%, Colifroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
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LB-TEST-146

Laboratory Test Report

Microbiology

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	: **MA26-178672-5/5-M/01**	**Report Date**	: **13.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	: 2083273
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Surface Temp. on Receipt^	: 5.6°C
Submitted By	: 10801	Receiving Date	: 11.08.2026
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported in Cool Box
Sampling Point	: Roof Top GRP Tank	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 13.08.2026
Sample Volume	: 500 ml	Tested By	: 10274, 10785

Results

^Instrument ID: LSM-INS-062

Parameters	Methods	Units	Results	Guideline Limits
Heterotrophic Plate Count	*APHA 9215 B, 24th Edition*	*CFU/ml*	0	500*
Total Coliforms	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#
E.coli	*APHA 9222J, 24th Edition*	*CFU/100ml*	0	0#

Guideline

*EPA Standard - National Primary Drinking Water Standard

#GSO 149:2021 Gulf Technical Regulation - Unbottled Drinking Water

Abbreviations :

CFU - colony forming units
APHA - American Public Health Association
BS EN ISO - British Standard European Norm International Organization for Standardization
n/s - Not Specified
n/a - Not Applicable
MPN - Most Probable Number

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per LS-WI-M014 (Non-accredited)

Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
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LB-TEST-146

Laboratory Test Report

Legionella

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	: **MA26-178671-1/5-L/01**	**Report Date**	: **21.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	: 2083268
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Temp. at Sampling Time	: 35.0°C/-
Submitted By	: 10801	Receiving Date	: 11.08.2026
Submitted On	: 10.08.2026	Sample Surface Temp. on Receipt^	: 12.7°C
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported at Ambient Temp.
Sampling Point	: Block F, GF - Staff Washroom Tap	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 21.08.2026
Sample Volume	: 1000 ml	Tested By	: 10785

Results

Parameters	*Methods*	*Units*	*Results*	*Guideline Limits*
Legionella species	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 1	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 2-15	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*

Guideline

*Technical Guidelines for Legionella Control in Water System, DM-HSD-GU44-LCWS2

Matrix: Matrix A **Procedure:** 5. Without Treatment **Medium:** GVPC **Maximum Volume Used:** 1000 ml

Limit of Detection : 1

Abbreviations :
CFU - colony forming units
<1.0- Zero or Not detected
n/s - Not Specified
n/a - Not Applicable

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per BS 7592:2022 Section 2:Routine sampling

Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
"The stated expanded uncertainty is derived by multiplying the standard uncertainty by a coverage factor (k=2), ensuring an approximate 95% confidence level"

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Joby Daniel
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Emirates International Accreditation Centre
LB-TEST-146

Laboratory Test Report

Legionella

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	**: MA26-178671-2/5-L/01**	**Report Date**	**: 21.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: EI-G+3 Taaleem School - Dubai	LIMS Sample Number	:2083269
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Temp. at Sampling Time	: 30.4°C/-
Submitted By	: 10801	Receiving Date	: 11.08.2026
Submitted On	: 10.08.2026	Sample Surface Temp. on Receipt^	: 12.1°C
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported at Ambient Temp.
Sampling Point	: Block E, GF- Male Washroom Tap	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 21.08.2026
Sample Volume	: 1000 ml	Tested By	: 10785

Results

Parameters	Methods	Units	Results	Guideline Limits
Legionella species	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 1	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 2-15	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*

Guideline

*Technical Guidelines for Legionella Control in Water System, DM-HSD-GU44-LCWS2

Matrix: Matrix A **Procedure:** 5. Without Treatment **Medium:** GVPC **Maximum Volume Used:** 1000 ml

Limit of Detection : 1

Abbreviations :
CFU - colony forming units
<1.0- Zero or Not detected
n/s - Not Specified
n/a - Not Applicable

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per BS 7592:2022 Section 2:Routine sampling

Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
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Emirates International Accreditation Centre
LB-TEST-146

Laboratory Test Report

Legionella

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	: **MA26-178671-3/5-L/01**	**Report Date**	: **21.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	: 2083270
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Temp. at Sampling Time	: 23.6°C/-
Submitted By	: 10801	Receiving Date	: 11.08.2026
Submitted On	: 10.08.2026	Sample Surface Temp. on Receipt^	: 13.0°C
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported at Ambient Temp.
Sampling Point	: Block D, FF- Female Washroom Tap	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 21.08.2026
Sample Volume	: 1000 ml	Tested By	: 10785

Results

Parameters	*Methods*	*Units*	*Results*	*Guideline Limits*
Legionella species	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 1	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 2-15	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*

Guideline

*Technical Guidelines for Legionella Control in Water System, DM-HSD-GU44-LCWS2

Matrix: Matrix A **Procedure:** 5. Without Treatment **Medium:** GVPC **Maximum Volume Used:** 1000 ml

Limit of Detection : 1

Abbreviations :
CFU - colony forming units
<1.0- Zero or Not detected
n/s - Not Specified
n/a - Not Applicable

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per BS 7592:2022 Section 2:Routine sampling

Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
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LB-TEST-146

Laboratory Test Report

Legionella

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	: **MA26-178671-4/5-L/01**	**Report Date**	: **21.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	: 2083271
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Temp. at Sampling Time	: 34.0°C/-
Submitted By	: 10801	Receiving Date	: 11.08.2026
Submitted On	: 10.08.2026	Sample Surface Temp. on Receipt^	: 11.3°C
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported at Ambient Temp.
Sampling Point	: Service Block Basement RCC Tank	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 21.08.2026
Sample Volume	: 1000 ml	Tested By	: 10785

Results

Parameters	Methods	Units	Results	Guideline Limits
Legionella species	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 1	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 2-15	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*

Guideline

*Technical Guidelines for Legionella Control in Water System, DM-HSD-GU44-LCWS2

Matrix: Matrix A **Procedure:** 5. Without Treatment **Medium:** GVPC **Maximum Volume Used:** 1000 ml

Limit of Detection : 1

Abbreviations :
CFU - colony forming units
<1.0- Zero or Not detected
n/s - Not Specified
n/a - Not Applicable

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per BS 7592:2022 Section 2:Routine sampling

Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
"The stated expanded uncertainty is derived by multiplying the standard uncertainty by a coverage factor (k=2), ensuring an approximate 95% confidence level"

Sibin Sasidharan
Senior Analyst

AQUA CURE TRADING FZE DUBAI BRANCH P.O. Box:263151 National Industries Park Dubai - U.A.E.

Joby Daniel
Laboratory Manager (Microbiology)

AQUA CURE
WATER PURITY EXPERTS

ilac-MRA eiac مركز الإمارات العالمي للاعتماد Emirates International Accreditation Centre
LB-TEST-146

Laboratory Test Report

Legionella

Customer Name	CULLIGAN INTERNATIONAL (EMIRATES) LLC
Address & Location	PO Box 37728, UAE
Nature of Activity	Water Treatment

Report No	: **MA26-178671-5/5-L/01**	**Report Date**	: **21.08.2026**
Project Name	: Entire Electromechanical Contracting LLC SOC	Work Order No	: 335399
Project ID	: UAE - AE-DXB-TS-D	Submission Form No	: 412650
Project Site	: El-G+3 Taaleem School - Dubai	LIMS Sample Number	: 2083272
Address	: Dubai	Onsite Treatment	: n/s
Sampling Date	: 10.08.2026	Sample Appearance	: Clear
Sampled By	: 10801	Sample Temp. at Sampling Time	: 39.5°C/-
Submitted By	: 10801	Receiving Date	: 11.08.2026
Submitted On	: 10.08.2026	Sample Surface Temp. on Receipt^	: 11.4°C
Sampling Procedure∞	: Grab	Received by	: 10100
Sample Type	: Domestic Water	Preservation of Sample	: Transported at Ambient Temp.
Sampling Point	: Roof Top GRP Tank	Test Start Date	: 11.08.2026
Sampling Container	: Sterile HDPE Bottle	Test End Date	: 21.08.2026
Sample Volume	: 1000 ml	Tested By	: 10785

Results

Parameters	Methods	Units	Results	Guideline Limits
Legionella species	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 1	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*
Legionella pneumophila serogroup 2-15	*ISO 11731-2017, Second edition*	*CFU/L*	Not Detected	1000*

Guideline
*Technical Guidelines for Legionella Control in Water System, DM-HSD-GU44-LCWS2

Matrix: Matrix A **Procedure:** 5. Without Treatment **Medium:** GVPC **Maximum Volume Used:** 1000 ml

Limit of Detection : 1

Abbreviations :
CFU - colony forming units
<1.0- Zero or Not detected
n/s - Not Specified
n/a - Not Applicable

Remarks :

The above sample was tested and found within the guideline limits.

Note:
Test Method variation: None

Results relate only to the delivered items tested (If sampling was not carried out by the testing Laboratory).
Reports shall not be reproduced (except in full) without written approval of the laboratory
∞ Sampling Procedure as per BS 7592:2022 Section 2:Routine sampling

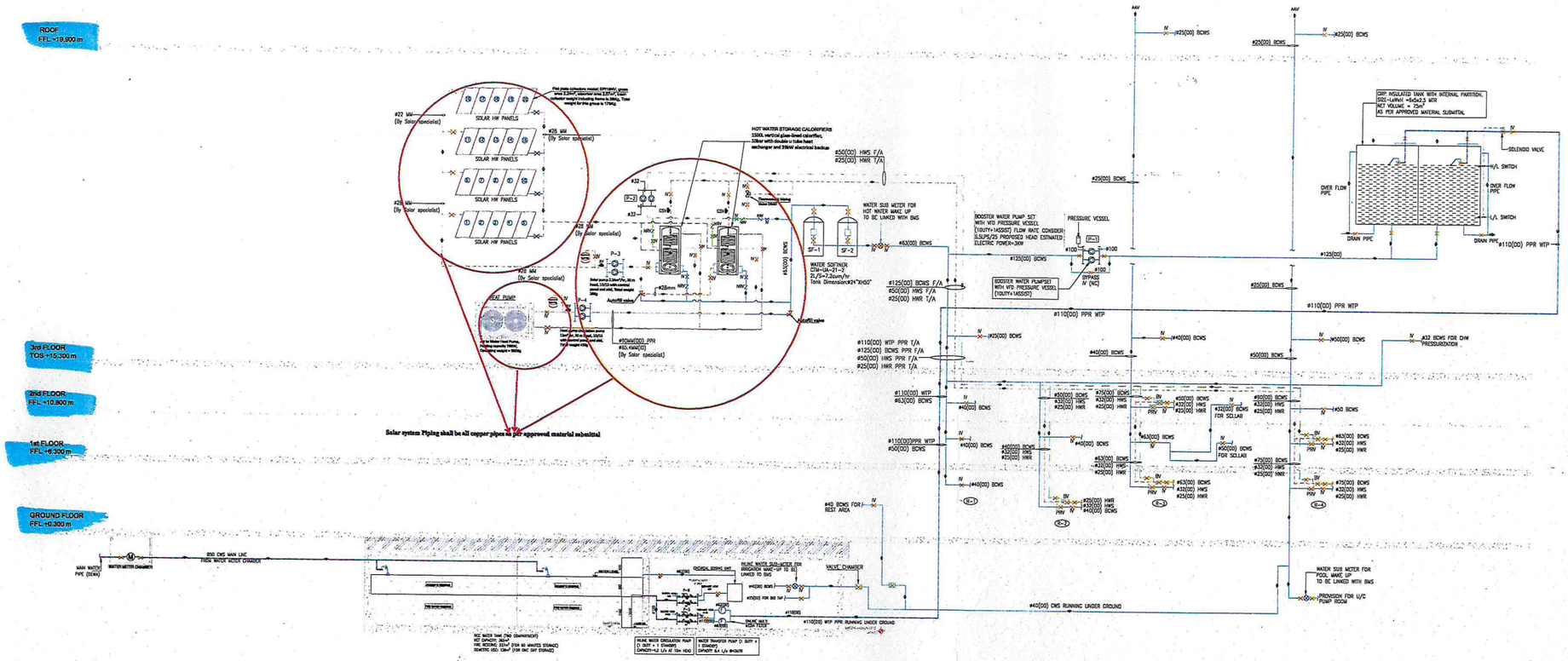
Expanded Uncertainty :

HPC ±0.03%, Colfiroms ±0.03%, E.coli (IDEXX) ±0.03%, E.coli ± 0.02 %, P.aeruginosa ±0.05%, Fecal Coliforms ±0.04%, Enterococci ±0.04%, Legionella ±0.02%
"The stated expanded uncertainty is derived by multiplying the standard uncertainty by a coverage factor (k=2), ensuring an approximate 95% confidence level"

Sibin Sasidharan
Senior Analyst

AQUA CURE TRADING FZE (DUBAI BRANCH) P.O. Box: 263151 National Industries Park Dubai - U.A.E.

Joby Daniel
Laboratory Manager (Microbiology)



1 **WATER SUPPLY SCHEMATIC LAYOUT**
SCALE 1:100

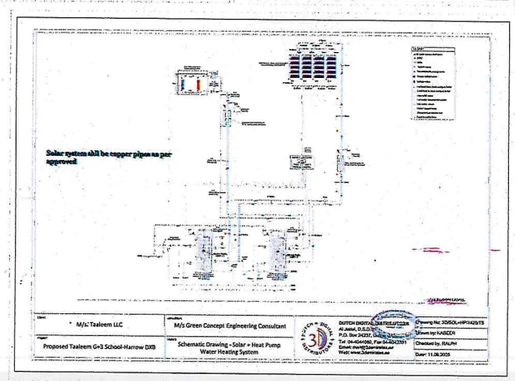
Approved as Noted

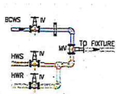
- Refer comments on drawing
- Coordinate with other services
- Refer comments on shop drawing and material submittals and to fully comply during installation
- To fully comply with DEWA requirements
- External services shop drawing and MEP coordination drawing to be updated in coordination with landscaping layout
- Subject to Installation approval
- Subject to DEWA approval

Jasaith Amin
19.11.2025

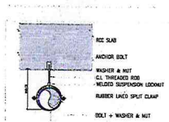
CONSULTANT COMMENTS REV-0	
CONSULTANT COMMENTS	REPLAY
TO OBTAIN APPROVAL FOR ALL WATER SUPPLY SYSTEM	NOTES COMPLIED
TO OBTAIN ALL EQUIPMENT APPROVAL	COMPLIED
TO FULLY COMPLIED WITH APPROVED SHOP DRAWING COMMENTS	COMPLIED
PIPE SIZE TO BE MONTIONED AS PER APPROVED PPR SCHEDULES	COMPLIED
PROVIDE IN DOUBLE LINE DIAGRAM	NOTED, PROVIDED IN SHOP DRAWING PLAN LAYOUTS

CONSULTANT COMMENTS REV-1	
CONSULTANT COMMENTS	REPLAY
CONTRACTOR TO OBTAIN MATERIAL SUBMITTALS APPROVAL FOR PUMPS AND WATER TANK	COMPLIED, PLEASE REFER MATERIAL SUBMITTAL NUMBER: SOLAR: AH-D352-MS-PL-026-R2 TANK: AH-D352-MS-PL-012 R1 WATER SOFTNER:AH-D352-MS-PL-015 R1 BOOSTER PUMP: AH-D352-MS-PL-020 TRANSFER PUMP:AH-D352-MS-PL-011-Rev-00
CONTRACTOR TO OBTAIN SHOP DRAWING APPROVAL	NOTED, THIRD FLOOR AND UNDERGROUND FLOOR SUBMITTED FOR APPROVAL, PLEASE REFER DRAWING NUMBER: AH-D352-SD-EN-MEP-MS-02-REV 03 AH-D352-SD-EN-MEP-MS-01-REV 04
DIRECTION OF WATER FLOW TO BE IDENTIFIED FOR ALL PIPE LINES	COMPLIED
HOT WATER GENERATION SYSTEM TO BE CLEARLY DETAILED INCLUDING SAFETY VALVE AND EXPANSION VESSEL AND MIXING VALVE ARRANGEMENTS	COMPLIED, ENLARGED VIEW PROVIDED
PROVIDE MRV IN ALL PUMP DISCHARGE LINES	NOTED
PROVIDE PRV TO BE PROVIDED AS PER DESIGN	NOTED





TMV INSTALLATION DETAIL (TYP)



TYPICAL WATER SUPPLY PIPE SUPPORT DETAIL

RCC WATER TANK (2 COMPARTMENT) TOTAL AREA = 164m²
FIRE PUMP - 1000 GPM
FIRE WATER FOR 60 Minutes= 1000x60 = 60,000 US GALLON
FIRE RESERVE - 227 m3
AREA=12X13= 156
FIRE WATER HEIGHT - 227 = 1.46m 156
DOMESTIC WATER USAGE - 143 m3 = IMP.G 31366
DOMESTIC WATER HEIGHT - 143 = 0.92 m 156

SCHEDULE OF WATER SUPPLY PIPE SUPPORTS DISTANCE		
PIPE SIZE IN MM	HORIZONTAL (MTRS)	VERTICAL (MTRS)
15Ø	0.55Mtr.	1.0Mtr.
20Ø	0.65Mtr.	1.0Mtr.
25Ø	0.70Mtr.	1.2Mtr.
32Ø	0.80Mtr.	1.2Mtr.
40Ø	0.99Mtr.	1.2Mtr.
50Ø	1.10Mtr.	2.0Mtr.
63Ø	1.20Mtr.	2.0Mtr.
75Ø	1.30Mtr.	2.0Mtr.
90Ø	1.45Mtr.	2.0Mtr.
110Ø	1.85Mtr.	2.0Mtr.
160Ø	2.10Mtr.	2.0Mtr.

PIPE SIZES FOR CONNECTIONS TO SANITARY FIXTURES / APPLIANCES

SL. NO.	SANITARY FIXTURE	HOT mm	COLD mm
1	WATER CLOSET (WC)	–	20
2	WASHING MACHINE (WM)	–	20
3	DISH WASHER (DW)	20	20
4	SHOWER (SH)	20	20
5	BATH TUB (BT)	20	20
6	KITCHEN SINK	20	20
7	BIDET	20	20
8	WASH BASIN (WB) AND HANDWASH (H/W)	20	20
9	HAND SPRAY	–	20

PPR PIPE SCHEDULE

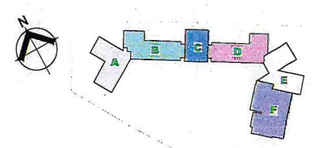
SDR	PPR SIZE AS PER IFC INNER DIAMETER (mm)	PPR OD SIZE (AQUATHERM) (mm)	WALL THK. (mm)	INTERNAL DIA (AQUATHERM) (mm)
7.4	20	25	3.5	18.0
7.4	25	32	4.4	23.2
7.4	32	40	5.5	29.0
7.4	40	50	6.9	36.2
7.4	50	63	8.6	45.8
7.4	63	75	10.3	54.4
7.4	75	90	12.3	65.4
7.4	90	110	15.1	79.8
7.4	110	125	17.1	90.8
7.4	125	160	21.9	116.2
7.4	160	200	27.4	145.2
7.4	200	250	34.2	181.6

LEGEND

	-UPVC COLD PPR PIPE
	- UPVC HOT WATER PPR PIPE
	- UPVC HOT WATER RETURN PPR PIPE
	-UPVC HIGH PRESSURE PIPE
	- UPVC HOT WATER FROM SOLAR SYSTEM
	- UPVC HOT WATER TO SOLAR SYSTEM
	- UPVC HOT WATER TO HEAT PUMP
	- UPVC HOT WATER FROM HEAT PUMP
X-IV	ISOLATION VALVE
N-NRV	NON RETURN VALVE
	AUTOFILL VALVE
P-GSV	GROUP SAFETY VALVE
P-SV	SAFETY VALVE
	THERMOSTATIC MIXING VALVE
WHA	- WATER HAMMER ARRESTOR

SITE MAP:

KEY PLAN



ENGINEER'S COMMENTS

- ☐ APPROVED
- ☐ APPROVED AS NOTED (REFER TO COMMENTS SHEET)
- ☐ NOT APPROVED
- ☐ REVISED AND RESUBMIT

Date	DISCIPLINE	ENG.	SING.	COMMENTS
	ELECTRICAL			
	HVAC			
	PLUMBING			
	FIRE FIGHTING			
	STRUCTURAL			
	ARCHITECTURAL			

Ref.		
01	25-08-25	ISSUED FOR CONSTRUCTION
Rev.	Date	Description
02	11-11-25	REVISED AS PER CONSULTANT COMMENTS
01	20-10-25	REVISED AS PER CONSULTANT COMMENTS
00	24-09-25	ISSUED FOR APPROVAL
Rev.	Date	Description

Lessee:
TAALEEM MANAGEMENT L.L.C.
1ST FLOOR CENTURY PLAZA
JUMEIRA ROAD, DUBAI, U.A.E
P.O. BOX 76891
TEL: +971 4 349 8808

Lead Consultant:
AL HASHEMI
PLANNERS | ARCHITECTS | ENGINEERS
T: +971 4 268 4466 | E: info@alhashemi.ae

MEP Consultant
gce consultants
TEL. 04-2589112
FAX.04-2589113
P.O BOX. 98929
EMAIL : info@greencec.ae
GreenConcept Engineering Consultants
(MEP, ELV, IT, Security Consultancy Services)
DEA Approved Consultant

Concept Design Consultant
köda

Main Contractor:
AL HIKMA BLDG. CONT. (L.L.C.)
HBC
P. O. BOX: 86695, DUBAI, U. A. E.
Tel : 04 - 236 42 42, Fax : 04 - 236 43 43
hbcmail@hbc.ae www.alhikma.ae

MEP Sub-Contractor:
ENTIRE
ENTIRE TECHNICAL SERVICES
P.O.Box 88881, Offices 13,14 & 15,
Al Nuaimi 3 Dubai - UAE.
Tel: +971 4 885 74 34
email: info@entire.ae, website: www.entire.ae

Project Title:
HARROW SCHOOL DUBAI

Height:	Parcel ID:	Community:
G+3	3840119	AL THANYAH 2
Drawn By: JO	Checked By: YM	Date: 11-11-2025
Project No: 1202	Scale: 1:75-A0	Status: SD

Drawing Title
WATER SUPPLY
SCHEMATIC RISER DIAGRAM

Sheet Identification:	Block:
SHEET 01 OF 01	OVER ALL

Ref.: AH-D352-SD-EN-MEP-WS-07 REV: 02