



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/458

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Upgrade 2,A	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 10:00
Sample No	2020/458	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	30°C	Preservation	2 to 8°C
Sample Receipt Temp.	6.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS						
Test	Method	Unit	Limit	LOD	Result	
Water sample						
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected	
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected	
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected	
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected	
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected	
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected	

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar
 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/459

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace-FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Upgrade 2,B	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 10:13
Sample No	2020/459	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	29.5°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.8°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS						
Test	Method	Unit	Limit	LOD	Result	
Water sample						
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	752	
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected	
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected	
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected	
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected	
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected	

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar
 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: As per DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 the above sample conforms for Legionella and does not conform for Heterotrophic Plate Count/TBC. The above sample conforms to GSO 149:2014/Amd 2:2016 (for other tests).

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W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/460

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION

Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Girls villa	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 10:19
Sample No	2020/460	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	25.6°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.7°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS

Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar



Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)

Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/461

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Upgrade 1: 1	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 10:25
Sample No	2020/461	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	34.2°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.7°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS						
Test	Method	Unit	Limit	LOD	Result	
Water sample						
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected	
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected	
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected	
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected	
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected	
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected	

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar
 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/462

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Upgrade 1: 2	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 10:31
Sample No	2020/462	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	35.1°C	Preservation	2 to 8°C
Sample Receipt Temp.	6.0°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS						
Test	Method	Unit	Limit	LOD	Result	
Water sample						
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected	
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected	
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected	
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected	
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected	
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected	

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count.* Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar
 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020

CUSTOMER INFORMATION

Report No : 2020/463

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION

Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Upgrade 1: Outside	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 10:37
Sample No	2020/463	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	33.3°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.9°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS

Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	93
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar

Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



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مركز الإمارات العالمي للاعتماد
Emirates International Accreditation Centre
215-LB-TEST

DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 **CUSTOMER INFORMATION** Report No : 2020/464

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Aziza Kitchen	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 10:45
Sample No	2020/464	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	20°C	Preservation	2 to 8°C
Sample Receipt Temp.	4.9°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS						
Test	Method	Unit	Limit	LOD	Result	
Water sample						
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1		54
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1		Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1		Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1		Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1		Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25		Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar



Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)

Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT

	W A F A Biological Laboratory L.L.C TEST REPORT		DOC No.	F_QP_21 TR
			Rev No.	01
			Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/465

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Asjan Villa	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 10:53
Sample No	2020/465	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	18°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.3°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS					
Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory


 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



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Emirates International Accreditation Centre
215-LB-TEST

Table with 2 columns: Field (DOC No., Rev No., Effect.Date) and Value (F_QP_21 TR, 01, 18/07/2019)

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/466

Customer Information table with fields: Customer, Contractor, Address & Location, Contact Person, Contact Email, Contact No.

SAMPLE INFORMATION

Sample Information table with fields: Sample Description, Sampling Location, Sampled Source, Sample No, Sampling Procedure, Sample Container/Quantity, Sample Collection Temp., Sample Receipt Temp., Sampling Apparatus, Start Date, Sample Condition | Origin, Sampled By, Sampling Date & Time, Chain Of Custody, Receiving Date & Time, Onsite Treatment, Preservation, Production Date, Expiry Date, Completion Date

TESTS

Tests table with columns: Test, Method, Unit, Limit, LOD, Result. Rows include Heterotrophic Plate count/TBC, Coliform, Fecal Coliform, E. coli, Pseudomonas aeruginosa, Enumeration of Legionella.

Remarks
Customer declares Sample description.
Upon Customer request uncertainty will be reported
Test method deviation: Not Applicable.
If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.

Handwritten signature of Geetha Vasanthakumar



Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)

Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT

 W A F A Biological Laboratory L.L.C TEST REPORT	  مركز الإمارات العالمي للاعتماد Emirates International Accreditation Centre 215-LB-TEST	DOC No.	F_QP_21 TR
		Rev No.	01
		Effect.Date	18/07/2019

Issue Date : 16/03/2020 **CUSTOMER INFORMATION** Report No : 2020/467

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Dog kennel B	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 11:06
Sample No	2020/467	Chain Of Custody	0080
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	28.5°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS					
Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory


 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



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Emirates International Accreditation Centre
215-LB-TEST

DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 **CUSTOMER INFORMATION** Report No : 2020/468

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION

Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Police Majlis	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 11:12
Sample No	2020/468	Chain Of Custody	0081
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	25.3°C	Preservation	2 to 8°C
Sample Receipt Temp.	6.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS

Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar
 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/469

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION

Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	2 nd Building Left wing	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 11:20
Sample No	2020/469	Chain Of Custody	0081
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	25.3°C	Preservation	2 to 8°C
Sample Receipt Temp.	6.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS

Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar

Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



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Emirates International Accreditation Centre
215-LB-TEST

Table with 2 columns: Field (DOC No., Rev No., Effect.Date) and Value (F_QP_21 TR, 01, 18/07/2019)

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/470

Customer Information table with fields: Customer, Contractor, Address & Location, Contact Person, Contact Email, Contact No.

SAMPLE INFORMATION table with fields: Sample Description, Sampling Location, Sampled Source, Sample No, Sampling Procedure, Sample Container/Quantity, Sample Collection Temp., Sample Receipt Temp., Sampling Apparatus, Start Date, Sample Condition | Origin, Sampled By, Sampling Date & Time, Chain Of Custody, Receiving Date & Time, Onsite Treatment, Preservation, Production Date, Expiry Date, Completion Date

TESTS table with columns: Test, Method, Unit, Limit, LOD, Result. Rows include Heterotrophic Plate count/TBC, Coliform, Fecal Coliform, E. coli, Pseudomonas aeruginosa, Enumeration of Legionella.

Remarks
Customer declares Sample description.
Upon Customer request uncertainty will be reported
Test method deviation: Not Applicable.
If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.

Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)
Wafa logo and signature

Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/471

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION

Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Right wing 1 st Building	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 11:32
Sample No	2020/471	Chain Of Custody	0081
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	20.9°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.9°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS

Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar



Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)

Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/472

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Right wing 2 Plant Room	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 11:39
Sample No	2020/472	Chain Of Custody	0081
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	21.7°C	Preservation	2 to 8°C
Sample Receipt Temp.	6.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS						
Test	Method	Unit	Limit	LOD	Result	
Water sample						
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected	
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected	
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected	
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected	
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected	
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected	

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar



Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)

Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/473

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION

Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	Ladies Waiting area	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 11:48
Sample No	2020/473	Chain Of Custody	0081
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	25°C	Preservation	2 to 8°C
Sample Receipt Temp.	6.2°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS

Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	744
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory



Geetha Vasanthakumar
 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)

Comments: As per DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 the above sample conforms for Legionella and does not conform for Heterotrophic Plate Count/TBC. The above sample conforms to GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/474

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION

Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	West Gate Right wing	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 12:03
Sample No	2020/474	Chain Of Custody	0081
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	22.7°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.9°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS

Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	79
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar

Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

This test report refers only to the sample(s) tested and shall not be reproduced except in full, without prior written approval of W A F A Biological Laboratory. The information contained herein-reflects the company's findings at the time of its intervention only and within the limits of Customer's instructions, if any. This document is issued by the Company, under its General terms and conditions of service and attention is drawn to annexure-02 of the contract between the client and the company.

END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 CUSTOMER INFORMATION Report No : 2020/475

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	West Gate Left wing	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 12:07
Sample No	2020/475	Chain Of Custody	0081
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	23.7°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.9°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS					
Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	97
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar



Approved by
Dr. Geetha Vasanthakumar
(Laboratory Director)

Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



W A F A Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect.Date	18/07/2019

Issue Date : 16/03/2020 **CUSTOMER INFORMATION** Report No : 2020/476

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraaj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location	West Gate Outside	Sampled By	Sherif
Sampled Source	Tank	Sampling Date & Time	04/03/2020 12:15
Sample No	2020/476	Chain Of Custody	0081
Sampling Procedure	LP22-01.WSP*	Receiving Date & Time	04/03/2020 13:04
Sample Container/Quantity	Sterile bottle 1.5L	Onsite Treatment	NA
Sample Collection Temp.	25.7°C	Preservation	2 to 8°C
Sample Receipt Temp.	5.8°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	05/03/2020	Completion Date	15/03/2020

TESTS					
Test	Method	Unit	Limit	LOD	Result
Water sample					
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	92
Coliform	APHA 9222B 23rd Ed	CFU/100ml	0	1	Not detected
Fecal Coliform	APHA 9222B&G 23rd Ed	CFU/100ml	0	1	Not detected
E. coli	APHA 9222B&H 23rd Ed	CFU/100ml	0	1	Not detected
Pseudomonas aeruginosa	APHA 9213E 23rd Ed	CFU/100ml	0	1	Not detected
Enumeration of Legionella	ISO 11731; Procedures: 8,9,10	CFU/L	≤1000	25	Not detected

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar
 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC and Legionella) and GSO 149:2014/Amd 2:2016 (for other tests).

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END OF REPORT



Wafa Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect Date	18/07/2019

Issue Date : 05/04/2020 **CUSTOMER INFORMATION** Report No : 2020/851

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location`	Upgrade 2,B	Sampled By	Crystalline Environmental Services
Sampled Source	Tank	Sampling Date & Time	NA
Sample No	2020/851	Chain Of Custody	0180
Sampling Procedure	NA	Receiving Date & Time	02/04/2020 09:00
Sample Container/Quantity	Plastic Bottle 0.5L	Onsite Treatment	NA
Sample Collection Temp.	NA	Preservation	2 to 8°C
Sample Receipt Temp.	5.7°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	02/04/2020	Completion Date	05/04/2020

TESTS						
Test	Method	Unit	Limit	LOD	Result	
Water sample						
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected	

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory

Geetha Vasanthakumar
 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC)

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END OF REPORT



Wafa Biological Laboratory L.L.C

TEST REPORT



DOC No.	F_QP_21 TR
Rev No.	01
Effect Date	18/07/2019

Issue Date : 05/04/2020 **CUSTOMER INFORMATION** Report No : 2020/852

Customer	Engineering office		
Contractor	Crystalline Environmental Services	Contact Email	murugaraj@crystalline-uae.com
Address & Location	Al Zabeel Palace- FM 1007		
Contact Person	Murugaraj	Contact No.	+971 52 191 4023

SAMPLE INFORMATION			
Sample Description	Tank Water	Sample Condition Origin	Good UAE
Sampling Location`	Ladies waiting area	Sampled By	Crystalline Environmental Services
Sampled Source	Tank	Sampling Date & Time	NA
Sample No	2020/852	Chain Of Custody	0180
Sampling Procedure	NA	Receiving Date & Time	02/04/2020 09:00
Sample Container/Quantity	Plastic Bottle 0.5L	Onsite Treatment	NA
Sample Collection Temp.	NA	Preservation	2 to 8°C
Sample Receipt Temp.	5.9°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	02/04/2020	Completion Date	05/04/2020

TESTS						
Test	Method	Unit	Limit	LOD	Result	
Water sample						
Heterotrophic Plate count/TBC	APHA 9215B 23rd Ed	CFU/ml	≤500	1	Not detected	

Remarks
 Customer declares Sample description.
 Upon Customer request uncertainty will be reported
 Test method deviation: Not Applicable.
 If sample is collected by W A F A Sample Collector, W A F A SOPs for sample collection & transportation are applicable and available upon request.
 ND - Not detected; NA - not applicable; CFU - Colony forming units; Temp.- Temperature, TNTC - Too Numerous To Count. ; * Tests not accredited by EIAC; **Subcontracted with ISO 17025 accredited testing laboratory, ***Tests not accredited in ISO 17025 accredited laboratory


 Approved by
 Dr. Geetha Vasanthakumar
 (Laboratory Director)



Comments: The above sample conforms to DM Public Health & Safety Dept. Guidelines for the control of Legionella in water systems Rev.2, Issue date 6/2010 (for Heterotrophic Plate Count/TBC)

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END OF REPORT