



WAFA Biological Laboratory L.L.C

TEST REPORT



Issue Date : 28/04/2023

CUSTOMER INFORMATION

Report No : 2023/16125

Customer	SWS Sphere Water Systems		
Contractor	-	Customer Email	robin@spherewater.com
Address & Location	Dubai, UAE		
Contact Person	Robin Ganss	Contact No.	058 551 0420

SAMPLE INFORMATION

Sample Description	Tap Water	Sample Condition Origin	Good UAE
Sampling Location`	SWS Portable RO System	Sampled By	Customer
Sampled Source	DEWA	Sampling Date & Time`	18/04/2023 13:30
Sample No	2023/16125	Chain Of Custody	12694
Sampling Procedure	NA	Receiving Date & Time	18/04/2023 13:40
Sample Container/Quantity	Plastic Bottle 0.5L	Onsite Treatment	Residual Chlorine Neutralized
Sample Collection Temp.	NA	Preservation	NA
Sample Receipt Temp.	25.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	18/04/2023	Completion Date	28/04/2023

TESTS

Test	Method	Unit	Limit	LOD/LOQ	Result
Microbiology Tests					
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

Remarks

Customer declares sample description and location. Upon customer request, Measurement of Uncertainty (MU) will be reported. ND: Not detected; NA: Not applicable; CFU: Colony Forming Units; TNTC: Too Numerous To Count; LOD: Limit of Detection (Microbiology tests); LOQ: Limit of Quantification (Chemistry Tests); No star: Tests accredited by EIAC, * : Tests not accredited by EIAC, ** : Tests subcontracted to ISO17025 accredited Laboratory, *** : Subcontracted to ISO17025 accredited laboratory, tests not accredited.

Geetha Vasanthakumar

Geetha Vasanthakumar
Approved by
(Laboratory Director)





Comments: The above sample is satisfactory with the limit given per DM-HSD-GU44-LCWS2_Technical-Guidelines-for-Legionella-Control-in-Water-Systems_V2, 2022 (for Heterotrophic Plate Count) and GSO 149:2021-Unbottled Drinking water, Edition 1 (for other tests).

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Doc No: F_QP_21.TR; Effective date 18-07-2019; Rev. 02

END OF REPORT



WAFA Biological Laboratory L.L.C

TEST REPORT



Issue Date : 28/04/2023 CUSTOMER INFORMATION Report No : 2023/16126

Customer	SWS Sphere Water Systems		
Contractor	-	Customer Email	robin@spherewater.com
Address & Location	Dubai, UAE		
Contact Person	Robin Ganss	Contact No.	058 551 0420

SAMPLE INFORMATION

Sample Description	Tap Water	Sample Condition Origin	Good UAE
Sampling Location`	Water Sink RO System	Sampled By	Customer
Sampled Source	DEWA	Sampling Date & Time`	18/04/2023 13:30
Sample No	2023/16126	Chain Of Custody	12694
Sampling Procedure	NA	Receiving Date & Time	18/04/2023 13:40
Sample Container/Quantity	Plastic Bottle 0.5L	Onsite Treatment	Residual Chlorine Neutralized
Sample Collection Temp.	NA	Preservation	NA
Sample Receipt Temp.	25.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	18/04/2023	Completion Date	28/04/2023

TESTS

Test	Method	Unit	Limit	LOD/LOQ	Result
Microbiology Tests					
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

Remarks

Customer declares sample description and location. Upon customer request, Measurement of Uncertainty (MU) will be reported. ND: Not detected; NA: Not applicable; CFU: Colony Forming Units; TNTC: Too Numerous To Count; LOD: Limit of Detection (Microbiology tests); LOQ: Limit of Quantification (Chemistry Tests); No star: Tests accredited by EIAC, * : Tests not accredited by EIAC, ** : Tests subcontracted to ISO17025 accredited Laboratory, *** : Subcontracted to ISO17025 accredited laboratory, tests not accredited.

Geetha Vasanthakumar

Geetha Vasanthakumar
Approved by
(Laboratory Director)





Comments: The above sample is satisfactory with the limit given per DM-HSD-GU44-LCWS2_Technical-Guidelines-for-Legionella-Control-in-Water-Systems_V2, 2022 (for Heterotrophic Plate Count) and GSO 149:2021-Unbottled Drinking water, Edition 1 (for other tests).

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END OF REPORT



WAFA Biological Laboratory L.L.C

TEST REPORT



Issue Date : 29/04/2023 CUSTOMER INFORMATION Report No : 2023/16127

Customer	SWS Sphere Water Systems		
Contractor	-	Customer Email	robin@spherewater.com
Address & Location	Dubai, UAE		
Contact Person	Robin Ganss	Contact No.	058 551 0420

SAMPLE INFORMATION

Sample Description	Tap Water	Sample Condition Origin	Good UAE
Sampling Location`	Water Sink RO System	Sampled By	Customer
Sampled Source	DEWA	Sampling Date & Time`	18/04/2023 13:30
Sample No	2023/16127	Chain Of Custody	12694
Sampling Procedure	NA	Receiving Date & Time	18/04/2023 13:40
Sample Container/Quantity	Plastic Bottle 1L	Onsite Treatment	Residual Chlorine Neutralized
Sample Collection Temp.	NA	Preservation	NA
Sample Receipt Temp.	25.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	18/04/2023	Completion Date	29/04/2023

TESTS

Test	Method	Unit	Limit	LOD/LOQ	Result
Legionella Test					
Enumeration of Legionella	ISO 11731; Procedure: 5,7	CFU/L	<1000	1	Not Detected

Remarks

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Geetha Vasanthakumar

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Approved by
(Laboratory Director)



Comments: The above sample is satisfactory with the limit given per DM-HSD-GU44-LCWS2_Technical-Guidelines-for-Legionella-Control-in-Water-Systems_V2, 2022; Matrix A, Media BCYE & GVPC.

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END OF REPORT



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TEST REPORT



Issue Date : 28/04/2023

CUSTOMER INFORMATION

Report No : 2023/16128

Customer	SWS Sphere Water Systems		
Contractor	-	Customer Email	robin@spherewater.com
Address & Location	Dubai, UAE		
Contact Person	Robin Ganss	Contact No.	058 551 0420

SAMPLE INFORMATION

Sample Description	Tap Water	Sample Condition Origin	Good UAE
Sampling Location`	SWS Portable RO System	Sampled By	Customer
Sampled Source	DEWA	Sampling Date & Time`	18/04/2023 13:30
Sample No	2023/16128	Chain Of Custody	C3785
Sampling Procedure	NA	Receiving Date & Time	18/04/2023 13:40
Sample Container/Quantity	Plastic Bottle 1L	Onsite Treatment	NA
Sample Collection Temp.	NA	Preservation	NA
Sample Receipt Temp.	25.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	18/04/2023	Completion Date	28/04/2023

TESTS

Test	Method	Unit	Limit	LOD/LOQ	Result
Chemical Tests					
Aluminium	APHA 3500 Al B	mg/L	0.2	0.05	< 0.05
Ammonia	APHA 4500 NH3 D	mg/L	0.5	0.10	< 0.1
Bromate**	In-house method	µg/L	-	5	<5
Free Chlorine	LP03-02.LK	mg/L	-	0.1	< 0.1
Conductivity at 25°C	APHA 2510 A&B	µS/cm	1500	NA	370
pH at 25°C	LP01-02.pH	NA	5.5-9.5	NA	7.62
Iron	APHA 3500 Fe B	mg/L	-	0.05	< 0.05
Nitrite as NO2-N	APHA 4500 NO2 -B	mg/L	0.1	0.05	< 0.05
Total Dissolved Solids	APHA 2540 C	mg/L	-	50	220
Turbidity	APHA 2130B	NTU	4.0	0.1	< 0.1
Fluoride**	APHA 4500 F D	mg/L	1.5	0.10	< 0.1
Total Hardness	APHA 2340C	mg as CaCO3/L	-	20	68
Sodium as Na**	APHA 3120 B	mg/L	150	1.441	45.82
Magnesium	APHA 3500 Mg B	mg/L	50.00	2.5	2.91
potassium as K**	APHA 3120 B	mg/L	12	1.008	1.602
Sulphate	APHA 4500 SO4 2 E	mg/L	250.00	10	< 10
Calcium	APHA 3500 Ca B	mg/L	250	4	22.44
Chloride	APHA 4500 Cl ⁻ B	mg/L	400	20	75

Remarks

Customer declares sample description and location. Upon customer request, Measurement of Uncertainty (MU) will be reported. ND: Not detected; NA: Not applicable; CFU: Colony Forming Units; TNTC: Too Numerous To Count; LOD: Limit of Detection (Microbiology tests); LOQ: Limit of Quantification (Chemistry Tests); No star: Tests accredited by EIAC, * : Tests not accredited by EIAC, ** : Tests subcontracted to ISO17025 accredited Laboratory, *** : Subcontracted to ISO17025 accredited laboratory, tests not accredited.



WAFA Biological Laboratory L.L.C

TEST REPORT



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Approved by
(Laboratory Director)



Comments: The above sample is satisfactory with the limit given per Part E-5 Public Health - Water Systems Design (WS), DHA, Dubai (for tests for which limits are available). (-) denotes that no limit is available in Part E-5 Public Health - Water Systems Design (WS), DHA, Dubai, hence decision rule not given.

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TEST REPORT



Issue Date : 28/04/2023

CUSTOMER INFORMATION

Report No : 2023/16129

Customer	SWS Sphere Water Systems		
Contractor	-	Customer Email	robin@spherewater.com
Address & Location	Dubai, UAE		
Contact Person	Robin Ganss	Contact No.	058 551 0420

SAMPLE INFORMATION

Sample Description	Tap Water	Sample Condition Origin	Good UAE
Sampling Location`	Under Sink SWS RO System	Sampled By	Customer
Sampled Source	DEWA	Sampling Date & Time`	18/04/2023 13:30
Sample No	2023/16129	Chain Of Custody	C3785
Sampling Procedure	NA	Receiving Date & Time	18/04/2023 13:40
Sample Container/Quantity	Plastic Bottle 1L	Onsite Treatment	NA
Sample Collection Temp.	NA	Preservation	NA
Sample Receipt Temp.	25.1°C	Production Date	NA
Sampling Apparatus	NA	Expiry Date	NA
Start Date	18/04/2023	Completion Date	28/04/2023

TESTS

Test	Method	Unit	Limit	LOD/LOQ	Result
Chemical Tests					
Aluminium	APHA 3500 Al B	mg/L	0.2	0.05	< 0.05
Ammonia	APHA 4500 NH3 D	mg/L	0.5	0.10	< 0.1
Bromate**	In-house method	µg/L	-	5	<5
Free Chlorine	LP03-02.LK	mg/L	-	0.1	< 0.1
Conductivity at 25°C	APHA 2510 A&B	µS/cm	1500	NA	340
pH at 25°C	LP01-02.pH	NA	5.5-9.5	NA	7.60
Iron	APHA 3500 Fe B	mg/L	-	0.05	< 0.05
Nitrite as NO2-N	APHA 4500 NO2 -B	mg/L	0.1	0.05	< 0.05
Total Dissolved Solids	APHA 2540 C	mg/L	-	50	200
Turbidity	APHA 2130B	NTU	4.0	0.1	< 0.1
Fluoride**	APHA 4500 F D	mg/L	1.5	0.10	< 0.1
Total Hardness	APHA 2340C	mg as CaCO3/L	-	20	58
Sodium as Na**	APHA 3120 B	mg/L	150	1.441	47.93
Magnesium	APHA 3500 Mg B	mg/L	50.00	2.5	< 2.5
potassium as K**	APHA 3120 B	mg/L	12	1.008	1.467
Sulphate	APHA 4500 SO4 2 E	mg/L	250.00	10	< 10
Calcium	APHA 3500 Ca B	mg/L	250	4	38.47
Chloride	APHA 4500 Cl ⁻ B	mg/L	400	20	66

Remarks

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