



Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-8871



Request No.	: WA-Q-L-2005-1407	Sample No.	: WA-S-L-2005-8674
Sampling Date/time	: 11/5/2020 , 17:00	Report Date.	: 16/5/2020
Analysis Start Date.	: 11/5/2020	Analysis End Date.	: 14/5/2020
Sample Location.	: Mountain Gate	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Main Water Tank
Sampling Point	: Not Given	Sample Description	: Cold Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D  
Senior Microbiologist



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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-8869



Request No.	: WA-Q-L-2005-1407	Sample No.	: WA-S-L-2005-8672
Sampling Date/time	: 11/5/2020 , 17:00	Report Date.	: 16/5/2020
Analysis Start Date.	: 11/5/2020	Analysis End Date.	: 14/5/2020
Sample Location.	: Mountain Gate	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Cooler
Sampling Point	: Not Given	Sample Description	: Cold Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D  
Senior Microbiologist



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Microbiology Test Report

Customer Details

Crystalline Environmental Services

Report No. WA-R-L-2005-8872



Request No.	: WA-Q-L-2005-1407	Sample No.	: WA-S-L-2005-8675
Sampling Date/time	: 11/5/2020 , 17:00	Report Date.	: 16/5/2020
Analysis Start Date.	: 11/5/2020	Analysis End Date.	: 14/5/2020
Sample Location.	: Mountain Gate	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Kitchen
Sampling Point	: Not Given	Sample Description	: Cold Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

Remarks :The tested results of the sample are found to be satisfactory within the specified limits.

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D  
Senior Microbiologist

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**Microbiology Test Report**

**Customer Details**

**Crystalline Environmental Services**

Report No. WA-R-L-2005-8870



Request No.	: WA-Q-L-2005-1407	Sample No.	: WA-S-L-2005-8673
Sampling Date/time	: 11/5/2020 , 17:00	Report Date.	: 16/5/2020
Analysis Start Date.	: 11/5/2020	Analysis End Date.	: 14/5/2020
Sample Location.	: Mountain Gate	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wash Room Tap
Sampling Point	: Not Given	Sample Description	: Cold Water

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	100CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	Zero
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	Zero/100ml

Note : Not Detected=<1CFU

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested results of the sample are found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Campden Chorleywood Food Research Association.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**  
Senior Microbiologist



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**Legionella Test Report**

**Customer Details**

**Crystalline Environmental Services**

Report No. WA-R-L-2005-8875



Request No.	: WA-Q-L-2005-1407	Sample No.	: WA-S-L-2005-8678
Sampling Date/time	: 11/5/2020 , 17:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 11/5/2020	Analysis End Date.	: 21/5/2020
Sample Location.	: Mountain Gate	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Main Water Tank
Sampling Point	: Not Given	Sample Description	: Cold Water

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection= $\leq$ 1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist

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**Legionella Test Report**

**Customer Details**

**Crystalline Environmental Services**

Report No. WA-R-L-2005-8873



Request No.	: WA-Q-L-2005-1407	Sample No.	: WA-S-L-2005-8676
Sampling Date/time	: 11/5/2020 , 17:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 11/5/2020	Analysis End Date.	: 21/5/2020
Sample Location.	: Mountain Gate	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Water Cooler
Sampling Point	: Not Given	Sample Description	: Cold Water

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection= $\leq$ 1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist

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**Legionella Test Report**

**Customer Details**

Report No. WA-R-L-2005-8876

**Crystalline Environmental Services**



Request No.	: WA-Q-L-2005-1407	Sample No.	: WA-S-L-2005-8679
Sampling Date/time	: 11/5/2020 , 17:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 11/5/2020	Analysis End Date.	: 21/5/2020
Sample Location.	: Mountain Gate	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Kitchen
Sampling Point	: Not Given	Sample Description	: Cold Water

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection=<1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist



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**Legionella Test Report**

**Customer Details**

**Crystalline Environmental Services**

Report No. WA-R-L-2005-8874



Request No.	: WA-Q-L-2005-1407	Sample No.	: WA-S-L-2005-8677
Sampling Date/time	: 11/5/2020 , 17:00	Report Date.	: 21/5/2020
Analysis Start Date.	: 11/5/2020	Analysis End Date.	: 21/5/2020
Sample Location.	: Mountain Gate	Sampled By	: Client
Sample Identification	: Not Given	Sample Submitted as	: Water
Sample Certificate No	: Not Given	Sampling Method	: Not Given
Temperature °C	: Not Given	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Wash Room Tap
Sampling Point	: Not Given	Sample Description	: Cold Water

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	Zero/L

Note : Limit of Detection= $\leq$ 1CFU/L

Procedure: WSOP-MB-0051 Direct Placing of Membrane on BCYE+L-Cysteine/Membrane Filter Followed by Washing Procedure in Funnel.

Limits based on RSB Water Quality Regulation 2014. Schedule 1. Table F For Microbiological Parameters.

**Remarks :The tested result of the sample is found to be satisfactory within the specified limits.**

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Unit; BS-British Standard; ISO-International Organization for Standardization.

**Signed for and on behalf of Wimpey Laboratories**

**Dr. Suresh Murugan Ph.D**

Senior Microbiologist

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## POTABLE WATER ANALYSIS REPORT

<b>Client Name: Mountain Gate Property Investment LLC.</b>			
<b>Site location</b>	Mountain Gate Labour Camp	<b>Service Visit:</b>	11-05-2020
<b>Sampled By</b>	Crystalline Rep	<b>Sample Location</b>	RCC WATER TANK
<b>Sample Type</b>	Potable Water		

### TEST RESULT

Physical Parameters			
	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.95
2	Conductivity at 25°C, µs/cm	----	121
3	Total Dissolved Solids (TDS)	Max 1000	78
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.84
7	Calcium Hardness at 25°C	200	56
8	Total Hardness at 25°C	300	67
Inorganic Chemical Parameters			
1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	42
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

\*\*\* All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).

### COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine levels are normal
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,  
*Murugaraaj*  
Murugaraaj  
Service Engineer



## POTABLE WATER ANALYSIS REPORT

<b>Client Name: Mountain Gate Property Investment LLC.</b>			
<b>Site location</b>	Mountain Gate Labour Camp	<b>Service Visit:</b>	11-05-2020
<b>Sampled By</b>	Crystalline Rep	<b>Sample Location</b>	Water Cooler
<b>Sample Type</b>	Potable Water		

### TEST RESULT

#### Physical Parameters

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.80
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	120
3	Total Dissolved Solids (TDS)	Max 1000	78
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.41
7	Calcium Hardness at 25°C	200	35
8	Total Hardness at 25°C	300	41

#### Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	19
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

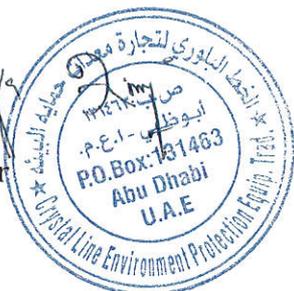
\*\*\* All test results expressed in parts per million (ppm) as  $\text{CaCO}_3$  except pH and conductivity ( $\mu\text{mhos}$ ).

### COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal
2	Residual chlorine level is satisfactory
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,

*P. Murugaraaj*  
Murugaraaj  
Service Engineer



## POTABLE WATER ANALYSIS REPORT

<b>Client Name: Mountain Gate Property Investment LLC.</b>			
<b>Site location</b>	Mountain Gate Labour Camp	<b>Service Visit:</b>	11-05-2020
<b>Sampled By</b>	Crystalline Rep	<b>Sample Location</b>	Kitchen Cooking Area
<b>Sample Type</b>	Potable Water		

### TEST RESULT

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.61
2	Conductivity at 25°C, $\mu\text{s}/\text{cm}$	----	121
3	Total Dissolved Solids (TDS)	Max 1000	78
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 - 0.5	0.48
7	Calcium Hardness at 25°C	200	61
8	Total Hardness at 25°C	300	66

### Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	42
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

\*\*\* All test results expressed in parts per million (ppm) as  $\text{CaCO}_3$  except pH and conductivity ( $\mu\text{mhos}$ ).

### COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Residual chlorine level is satisfactory
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,

Murugaraaj  
Service Engineer



## POTABLE WATER ANALYSIS REPORT

<b>Client Name: Mountain Gate Property Investment LLC.</b>			
<b>Site location</b>	Mountain Gate Labour Camp	<b>Service Visit:</b>	11-05-2020
<b>Sampled By</b>	Crystalline Rep	<b>Sample Location</b>	Wash Room
<b>Sample Type</b>	Potable Water		

### TEST RESULT

	Parameter	Control Limits	Test Results
1	pH at 25°C	7.0 - 9.2	8.80
2	Conductivity at 25°C, µs/cm	----	117
3	Total Dissolved Solids (TDS)	Max 1000	76
4	Odor	Unobjectionable	ND
5	Turbidity (including suspended solids)	4.0	<1.0
6	Residual Chlorine	0.2 – 0.5	0.39
7	Calcium Hardness at 25°C	200	51
8	Total Hardness at 25°C	300	60

### Inorganic Chemical Parameters

1	Sulphate	Max 250.0	<10
2	Chlorides	Max 250.0	37
3	Iron	Max 0.2	<0.05
4	Copper	Max 1.0	<0.05
5	Zinc	Max 5.0	<0.05
6	Nitrate	Max 50.0	<1.0
7	Nitrite	Max 3.0	<0.05
8	Potassium	Max 12.0	<5.0
9	Aluminium	Max 0.2	<0.05

\*\*\* All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).

### COMMENTS AND RECOMMENDATIONS

1	PH, Conductivity & TDS levels are normal.
2	Residual chlorine level is satisfactory
3	Calcium hardness and Total Hardness levels are satisfactory
4	All inorganic parameters are within the control limit

Reported By,

*P. Murugaraaj*  
Murugaraaj  
Service Engineer

