



Microbiology Test Report

Report No. WA-R-L-2006-11170



Customer Details

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463
Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax:
971 265 8942

Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10905
Sampling Date/time	: 16/6/2020 , 19:10	Report Date.	: 20/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 19/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: EM:22688, CP-B3-T-CWWC-CT-Tank	Sample Submitted as	: Water
Sample Certificate No	: 0843	Sampling Method	: APHA 9060 A&B
Temperature °C	: 37.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Cooling Tower Makeup Water Tank
Sampling Point	: Valve	Preservation	: 4-8°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	--

Note : Not Detected= \leq 1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SM	SM	None

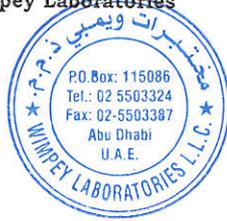
Key Words :CFU-Colony Forming Unit; APHA-American Public Health Association; CCFRA-Camden Chorleywood Food Research Association.



Microbiology Test Report

Report No. : WA-R-L-2006-11170

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-2006-11189

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463
Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax:
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Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10925
Sampling Date	: 16/06/2020	Report Date.	: 27/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 26/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0843	Sampling Method	: BS 7592
Temperature °C	: 37.1°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: Cooling Tower Makeup Water Tank
Sampling Point	: Valve	Preservation	: 10°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on
GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety
Department.

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

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Microbiology Test Report

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Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax: 971 265 8942

Report No. WA-R-L-2006-11179



Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10914
Sampling Date/time	: 16/6/2020 , 19:10	Report Date.	: 20/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 19/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0844	Sampling Method	: APHA 9060 A&B
Temperature °C	: 36.6°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 6th Floor Cooling Tower #1
Sampling Point	: Cooling Tower Basin	Preservation	: 4-8°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	--

Note : Not Detected=<1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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-Camden Chorleywood Food Research Association.



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Report No. : WA-R-L-2006-11179

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Senior Microbiologist



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Legionella Test Report

Customer Details

Report No. WA-R-L-2006-11198

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463
Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax:
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Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10934
Sampling Date	: 16/06/2020 ,	Report Date.	: 27/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 26/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0844	Sampling Method	: BS 7592
Temperature °C	: 36.6°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 6th Floor Cooling Tower #1
Sampling Point	: Cooling Tower Basin	Preservation	: 10°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on
GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety
Department.

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

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

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 CLEANING & ENVIRONMENTAL SERVICES

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463
Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax:
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Report No. WA-R-L-2006-11180



Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10915
Sampling Date/time	: 16/6/2020 , 19:10	Report Date.	: 20/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 19/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0844	Sampling Method	: APHA 9060 A&B
Temperature °C	: 37.2°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 6th Floor Cooling Tower #2
Sampling Point	: Cooling Tower Basin	Preservation	: 4-8°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	--

Note : Not Detected=<1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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-Camden Chorleywood Food Research Association.



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2006-11180

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Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Legionella Test Report

Report No. WA-R-L-2006-11199



Customer Details

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463

Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax: 971 265 8942

Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10935
Sampling Date	: 16/06/2020 ,	Report Date.	: 27/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 26/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0844	Sampling Method	: BS 7592
Temperature °C	: 37.2°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 6th Floor Cooling Tower #2
Sampling Point	: Cooling Tower Basin	Preservation	: 10°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Microbiology Test Report

Customer Details

Report No. WA-R-L-2006-11181

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CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463

Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax: 971 265 8942



Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10916
Sampling Date/time	: 16/6/2020 , 19:10	Report Date.	: 20/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 19/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0844	Sampling Method	: APHA 9060 A&B
Temperature °C	: 32.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 6th Floor Cooling Tower #3
Sampling Point	: Cooling Tower Basin	Preservation	: 4-8°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	--

Note : Not Detected= \leq 1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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-Camden Chorleywood Food Research Association.



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Testing - NAL 034

Microbiology Test Report

Report No. : WA-R-L-2006-11181

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Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Legionella Test Report

Customer Details

Report No. WA-R-L-2006-11200

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463

Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax: 971 265 8942



Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10936
Sampling Date	: 16/06/2020	Report Date.	: 27/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 26/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0844	Sampling Method	: BS 7592
Temperature °C	: 32.4°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 6th Floor Cooling Tower #3
Sampling Point	: Cooling Tower Basin	Preservation	: 10°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories



Dr. Suresh Murugan Ph.D

Senior Microbiologist

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Microbiology Test Report

Customer Details

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CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463

Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax: 971 265 8942

Report No. WA-R-L-2006-11182



Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10917
Sampling Date/time	: 16/6/2020 , 19:10	Report Date.	: 20/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 19/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0844	Sampling Method	: APHA 9060 A&B
Temperature °C	: 37°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 6th Floor Cooling Tower #4
Sampling Point	: Cooling Tower Basin	Preservation	: 4-8°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Escherichia Coli	APHA 9222 B,H& I 23rd Ed. 2017	CFU/100ml	Not Detected	--
Faecal Coliforms	APHA 9222 D 23rd Ed. 2017	CFU/100ml	Not Detected	--
Heterotrophic plate count	APHA 9215 B 23rd Ed. 2017	CFU/ml	Not Detected	10000CFU/ml
Pseudomonas aeruginosa	CCFRA 2.5.2 5th Ed. 2007	CFU/250ml	Not Detected	--
Total Coliforms	APHA 9222 B 23rd Ed. 2017	CFU/100ml	Not Detected	--

Note : Not Detected=<1CFU

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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-Camden Chorleywood Food Research Association.



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Microbiology Test Report

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Dr. Suresh Murugan Ph.D

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Legionella Test Report

Customer Details

Report No. WA-R-L-2006-11201

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES

CRYSTALLINE CLEANING & ENVIRONMENTAL SERVICES P.O.Box: 131463

Warehouse no: 84, M-45. Mussafah, Abu Dhabi, UAE. Tel: 971 265 08930; Fax: 971 265 8942



Request No.	: WA-Q-L-2006-01765	Sample No.	: WA-S-L-2006-10937
Sampling Date	: 16/06/2020 ,	Report Date.	: 27/6/2020
Analysis Start Date.	: 16/6/2020	Analysis End Date.	: 26/6/2020
Sample Location.	: ADIA, Car Parking, Abu Dhabi	Sampled By	: Shoukth
Sample Identification	: Not Applicable	Sample Submitted as	: Water
Sample Certificate No	: 0844	Sampling Method	: BS 7592
Temperature °C	: 37°C	Site Observation	: Clear
Sampling Container	: Sterile Plastic Bottle	Source of Sample	: 6th Floor Cooling Tower #4
Sampling Point	: Cooling Tower Basin	Preservation	: 10°C
Sample Description	: Cooling Tower Water		

Parameters	Test Methods	Units	Results	Specification
Legionella	ISO 11731: 2017	CFU/L	Not Detected	100CFU/L

Note : Limit of Detection=<20CFU/L

Procedure: WSOP-MB-0051. Filtration, Washing, Heat Treatment, Acid Treatment followed by Plating on GVPC/BCYE Agar.

Limit based on DM. Rev2.Dated 6/2010 for guidelines for control of legionella in water system. Public Safety Department.

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

Analyst	Reviewed By	Method Variation
SM	SM	None

Key Words :CFU-Colony Forming Units, ISO-International Organization for Standardization, BS-British Standards.

Signed for and on behalf of Wimpey Laboratories

Dr. Suresh Murugan Ph.D
Senior Microbiologist



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COOLING TOWER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	ABU DHABI INVESTMENT AUTHORITY, ABU DHABI	Service Visit:	16-06-2020
Sampled By	Crystalline Rep	Sample Location	ADIA - Car Parking
Sample Type	Cooling Tower		

TEST RESULT							
	Parameter	Control limits	Make up water	Cooling tower 1	Cooling tower 2	Cooling tower 3	Cooling tower 4
1	pH at 25°C	8.5-9.5	8.12	8.23	8.27	8.24	8.28
2	Conductivity at 25°C, µs/cm	Max 1500	214	364	357	367	361
3	Total Dissolved Solids (TDS)	Max 1000	139	236	232	238	234
4	Residual Chlorine	0.2 - 0.5	0.12	<0.05	<0.05	<0.05	<0.06
5	Calcium Hardness	200-350	46	236	242	240	242
6	Chlorides	Max 200	29	151	160	154	162
7	Iron	0 - 2.0	<0.05	0.13	0.11	0.17	0.18
8	Phosphate/phosphonate	4 - 6	---	5.1	5.0	5.3	4.8
9	Cycles of concentration	5 - 6	---	5.2	5.5	5.3	5.5
10	Calcium hardness balance	0.95 - 1.05	---	0.98	0.95	0.98	0.95
11	Dip slide	<10 ³	ND	ND	ND	ND	ND

*** All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS AND RECOMMENDATIONS				
	Cooling Tower-1	Cooling Tower-2	Cooling Tower-3	Cooling Tower-4
1	PH Level is satisfactory			
2	Conductivity & TDS levels are satisfactory			
3	Calcium Hardness and Chloride levels are satisfactory			
4	Dissolved iron levels are satisfactory			

Reported By,
Murugaraaj
Service Engineer

