

COOLING TOWER ANALYSIS REPORT

Client Name: SERCO, MIDDLE EAST			
Site location	ABU DHABI INVESTMENT AUTHORITY, ABU DHABI	Service Visit:	16/10/2019
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	8.21	8.82	8.65	8.74	---
2	Conductivity at 25°C, µs/cm	Max 1500	198	1103	1096	1098	---
3	Total Dissolved Solids (TDS)	Max 1000	128	718	714	714	---
4	Residual Chlorine	0.2 - 0.5	0.11	<0.05	<0.05	<0.05	---
5	Calcium Hardness	200-350	57	384	390	386	---
6	Chlorides	Max 200	39	258	262	266	---
7	Iron	0 - 2.0	<0.03	0.10	0.09	0.10	---
8	Phosphate/phosphonate	4 - 6	---	4.3	4.7	4.5	---
9	Cycles of concentration	5 - 6	---	6.6	6.7	6.8	---
10	Calcium hardness balance	0.95 - 1.05	---	1.01	1.01	0.95	---
11	Dip slide	<10 ³	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 slightly high-please drain the water	PH Level is satisfactory	PH Level is slightly high-please drain the water	-----
2	Conductivity & TDS levels are slightly high - please drain the water	Conductivity & TDS levels are satisfactory	Conductivity & TDS levels are slightly high - please drain the water	-----
3	Calcium Hardness and Chloride levels are high - Please drain the water	Calcium Hardness and Chloride levels are high - Please drain the water	Calcium Hardness and Chloride levels are high - Please drain the water	-----
4	Dissolved iron levels are satisfactory	Dissolved iron levels are satisfactory	Dissolved iron levels are satisfactory	-----

Reported By,
Murugaraaj
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Service Engineer

