

## TEST REPORT

Report No: QMTL/R-134716/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>		Sample ID	QMTL/S-134716
		Date Received	17 Nov 2020
		Date(s) Tested	17 Nov 2020 - 19 Nov 2020
		Date Reported	23 Nov 2020
Sample Description	<b>Chilled Water</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	17.11.2020 / 01:30 PM
Sample Container	1x500ml PB	Sampling Point	Valve
Sample Receipt Temp	4°C	Sample Onsite Temp	22.5°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	130
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero
Fecal coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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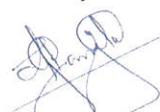
Test method deviation	None
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Test performed by Emp#	74 & 13
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Report prepared by Emp#	72
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The above test results are only applicable to the sample(s) referred above.

Reported By


  
**ANILA GEORGE**  
**LABORATORY MANAGER**

The test report shall not be reproduced(except in full) without the written approval of QMTL. When analysis is witnessed by us or carried out by sub contract labs, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with Industry accepted practice.

**END OF REPORT**

## CONSULTIN SERVICE REPORT

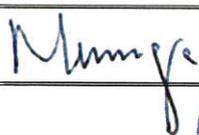
<b>CUSTOMER: EFS FACILITIES SERVICES - HEALTHPOINT HOSPITAL, ABU DHABI</b>	<b>To: Mr. ANJANEYAMOORTHI JR. OPERATION MANAGER</b>	<b>DATE: 30-11-2020</b>
<b>CUSTOMER ID: 4003</b>	<b>Copy: EFS FACILITIES SERVICES - HEALTHPOINT</b>	

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLER SAMPLE			
pH	8.5 - 10.5	8.05			
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	633			
TDS, ppm	--	411			
'P' Alkalinity, ppm as $\text{CaCO}_3$	--				
Total Hardness, ppm as $\text{CaCO}_3$	--				
Calcium Hardness, ppm as	--				
Chloride, ppm as $\text{Cl}^-$	--				
Iron, ppm as Fe	0 - 2.0	0.17			
<b>Treatment Residuals</b>					
Nitrite, ppm	>800	220			
CaH Balance					
Dip slide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	--				
Cynaoric Acid					

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

COMMENTS:	ACTION:
The pH level is low <span style="float: right;">⇒</span>	Please maintain the desired control limit
Dissolved iron levels are within the control limits. <span style="float: right;">⇒</span>	No action recommended.
Corrosion Inhibitor levels are very low <span style="float: right;">⇒</span>	Please maintain the desired control limit

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	
<b>Service Engineer:</b>	<b>MURUGARAJ</b>		<b>Client:</b>	<b>Mr. ANJANEYA MOORTHY</b>
<b>Signature :</b>			<b>Signature:</b>	

