

CONSULTIN SERVICE REPORT

CUSTOMER: EFS FACILITIES SERVICES - HEALTHPOINT HOSPITAL, ABU DHABI	To: Mr. ANJANEYAMOORTHI JR. OPERATION MANAGER	DATE: 14 -10-2019
CUSTOMER ID: 4003	Copy: EFS FACILITIES SERVICES - HEALTHPOINT	

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	CHILLER SAMPLE			
pH	8.5 - 10.5	9.25			
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1280			
TDS, ppm	--	832			
'P' Alkalinity, ppm as CaCO_3	--				
Total Hardness, ppm as CaCO_3	--				
Calcium Hardness, ppm as	--				
Chloride, ppm as Cl^-	--				
Iron, ppm as Fe	0 - 2.0	0.74			

Treatment Residuals

Nitrite, ppm	>800	270			
CaH Balance					
Dip slide	<10 ³	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	--				
Cynauric Acid					

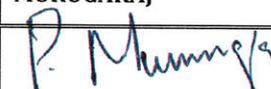
All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. \Rightarrow	No action recommended.
Dissolved iron levels are within the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are very low \Rightarrow	Please maintain the desired control limit
Bacteria count found satisfactory. \Rightarrow	No action recommended.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	

Service Engineer:	MURUGARAJ	Client:	Mr. ANJANEYA MOORTHI
Signature :		Signature:	



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COOLING WATER ANALYSIS

PARAMETER	CONTROL LIMITS	Make Up Water - 2	Cooling Tower - 2		
pH	8.5 - 9.5	8.12	8.43		
Conductivity, $\mu\text{s}/\text{cm}$	Max 1500	224	1174		
TDS, ppm	Max 1000	146	763		
'P' Alkalinity, ppm as CaCO_3	--				
Total Hardness, ppm as CaCO_3	--				
Calcium Hardness, ppm as CaCO_3	200 - 350	47	348		
Chloride, ppm as Cl^-	Max 200	28	162		
Iron, ppm as Fe	0 - 2.0		<0.05		

Treatment Residuals

Cycles of Concentration	5 - 6		5.8		
CaH Balance	0.95 - 1.05		1.27		
Dipslide	<10 ³		10 ²		
Phosphate/Phosphonate	4 - 6		<4		
Free Residual Chlorine as Cl	0.2 - 0.5		Nil		
Cynauric Acid					

All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

COMMENTS:

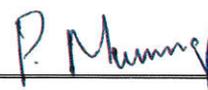
ACTION:

The Conductivity are satisfactory \Rightarrow	No action recommended.
Chloride & Calcium Hardness levels are satisfactory \Rightarrow	No action recommended.
Chemical levels are low \Rightarrow	Please maintain desired control limit

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 9265		Scale/Corrosion		
Crystal 7106		Non-Oxidizing Biocide		
Crystal 1591		Non-Oxidizing Biocide		
Crystal 9079		Biodispersent		
Crystal 7615		Oxidizing Biocide		

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Signature:		Signature:	



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COOLING WATER ANALYSIS

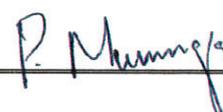
PARAMETER	CONTROL LIMITS	Make Up Water - 3	Cooling Tower - 3		
pH	8.5 - 9.5	8.09	9.14		
Conductivity, $\mu\text{s/cm}$	Max 1500	229	1194		
TDS, ppm	Max 1000	148	776		
'P' Alkalinity, ppm as CaCO_3	--				
Total Hardness, ppm as CaCO_3	--				
Calcium Hardness, ppm as CaCO_3	200 - 350	47	341		
Chloride, ppm as Cl^-	Max 200	31	178		
Iron, ppm as Fe	0 - 2.0		<0.05		

Treatment Residuals					
Cycles of Concentration	5 - 6		5.7		
CaH Balance	0.95 - 1.05		1.26		
Dipslide	<10 ³		10 ³		
Phosphate/Phosphonate	4 - 6		<4		
Free Residual Chlorine as Cl	0.2 - 0.5		Nil		
Cynauric Acid					

All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

COMMENTS:	ACTION:
The Conductivity are satisfactory \Rightarrow	No action recommended.
Calcium Hardness & Chloride levels are satisfactory \Rightarrow	No action recommended.
Chemical levels are low \Rightarrow	Please maintain desired control limit

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 9265		Scale/Corrosion		
Crystal 7106		Non-Oxidizing Biocide		
Crystal 1591		Non-Oxidizing Biocide		
Crystal 9079		Biodispersent		
Crystal 7615		Oxidizing Biocide		

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COOLING WATER ANALYSIS

PARAMETER	CONTROL LIMITS	Make Up Water - 4	Cooling Tower - 4		
pH	8.5 - 9.5	8.07	9.48		
Conductivity, $\mu\text{s}/\text{cm}$	Max 1500	216	1325		
TDS, ppm	Max 1000	141	861		
'P' Alkalinity, ppm as CaCO_3	--				
Total Hardness, ppm as CaCO_3	--				
Calcium Hardness, ppm as CaCO_3	200 - 350	49	339		
Chloride, ppm as Cl ⁻	Max 200	30	172		
Iron, ppm as Fe	0 - 2.0		<0.05		

Treatment Residuals

Cycles of Concentration	5 - 6		5.7		
CaH Balance	0.95 - 1.05		1.21		
Dipslide	<10 ³		10 ²		
Phosphate/Phosphonate	4 - 6		<4		
Free Residual Chlorine as Cl	0.2 - 0.5		Nil		
Cynaunic Acid					

All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).

COMMENTS:

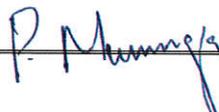
ACTION:

The Conductivity are satisfactory \Rightarrow	No action recommended.
Calcium Hardness & Chloride levels are satisfactory \Rightarrow	No action recommended.
Chemical levels are low \Rightarrow	Please maintain desired control limit

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 9265		Scale/Corrosion		
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