

TEST REPORT

Report No: QMTL/R-96541/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-96541	
	Date Received	07 Mar 2020	
	Date(s) Tested	07 Mar 2020 - 09 Mar 2020	
	Date Reported	24 Mar 2020	
Sample Description	ETS - Chilled Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/09:00 AM
Sample Container	1x500ml PB	Sampling Point	Valve
Sample Receipt Temp	4.5°C	Sample Onsite Temp	8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
E.coli	APHA 9222 H & I (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
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	8
Total Coliforms	APHA 9222 B (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, WI: Work Instruction, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
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Test performed by Emp#	14
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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



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END OF REPORT

TEST REPORT

Report No: QMTL/R-96542/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-96542	
	Date Received	07 Mar 2020	
	Date(s) Tested	07 Mar 2020 - 09 Mar 2020	
	Date Reported	24 Mar 2020	
Sample Description	Redundant- Chilled Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/09:07 AM
Sample Container	1x500ml PB	Sampling Point	Valve
Sample Receipt Temp	4.5°C	Sample Onsite Temp	20°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
E.coli	APHA 9222 H & I (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
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	<1
Total Coliforms	APHA 9222 B (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, WI: Work Instruction, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
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Test performed by Emp#	14
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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.

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END OF REPORT

TEST REPORT

Report No: QMTL/R-96547/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-96547	
	Date Received	07 Mar 2020	
	Date(s) Tested	07 Mar 2020 - 09 Mar 2020	
	Date Reported	24 Mar 2020	
Sample Description	MTER-Chilled Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/09:26 AM
Sample Container	1x500ml PB	Sampling Point	Valve
Sample Receipt Temp	4.5°C	Sample Onsite Temp	15°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
E.coli	APHA 9222 H & I (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
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	9
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, WI: Work Instruction, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
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Test performed by Emp#	14
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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.	
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END OF REPORT

TEST REPORT

Report No: QMTL/R-96559/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96559
ATTN : MR. JASMAN PINTO		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 09 Mar 2020
		Date Reported	24 Mar 2020
Sample Description	RTER-Chilled Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/11:19 AM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	4.5°C	Sample Onsite Temp	16°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
MICROBIOLOGICAL ANALYSIS				
E.coli	APHA 9222 H & I (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
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	8
Total Coliforms	APHA 9222 B (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, WI: Work Instruction, NA: Not Applicable, NP: Not Provided
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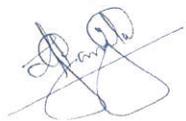
Test method deviation	None
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Test performed by Emp#	14
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Report prepared by Emp#	72
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END OF REPORT

TEST REPORT

Report No: QMTL/R-96573/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96573
		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 17 Mar 2020
		Date Reported	21 Mar 2020
ATTN : MR. JASMAN PINTO			
Sample Description	ETS-Chilled Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/9:00 AM
Sample Container	1x1L PB	Sampling Point	Valve
Sample Receipt Temp	20°C	Sample Onsite Temp	8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5th Edition)	CFU/litre	1000	Not Detected
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5th Edition)	-	-	Absent
Legionella Species	CCFRA 3.9.1 (5th Edition)	-	-	Absent

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, DM: Dubai Municipality, CCFRA: Campden & Chorleywood Food Research Association, NA: Not Applicable, NP: Not Provided, WI: Work Instruction.
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Test method deviation	None
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Test performed by Emp#	74 & 78 & 55
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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.

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END OF REPORT

TEST REPORT

Report No: QMTL/R-96574/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-96574		
	Date Received	07 Mar 2020		
	Date(s) Tested	07 Mar 2020 - 17 Mar 2020		
	Date Reported	21 Mar 2020		
Sample Description	Redutant-Chilled Water			
Sample Type	Water	Sampling Method	QMTL-WI-16	
Client Name/Project	NP	Sampled By	QMTL Representative	
Location	NYUAD	Sampling Date/Time	07.03.2020/9:07 AM	
Sample Container	1x1L PB	Sampling Point	Valve	
Sample Receipt Temp	20°C	Sample Onsite Temp	20°C	
Sample Appearance	Clear	On-site Treatment	NA	
Reference	NP			

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5th Edition)	CFU/litre	1000	Not Detected
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5th Edition)	-	-	Absent
Legionella Species	CCFRA 3.9.1 (5th Edition)	-	-	Absent

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, DM: Dubai Municipality, CCFRA: Campden & Chorleywood Food Research Association, NA: Not Applicable, NP: Not Provided, WI: Work Instruction.
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Test method deviation	None
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Test performed by Emp#	74 & 78 & 55
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Report prepared by Emp#	72
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END OF REPORT

TEST REPORT

Report No: QMTL/R-96591/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96591
		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 17 Mar 2020
		Date Reported	21 Mar 2020
ATTN : MR. JASMAN PINTO			
Sample Description	RTER-Chilled Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/11:19 AM
Sample Container	1x1L PB	Sampling Point	Tank
Sample Receipt Temp	20°C	Sample Onsite Temp	16°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5th Edition)	CFU/litre	1000	Not Detected
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5th Edition)	-	-	Absent
Legionella Species	CCFRA 3.9.1 (5th Edition)	-	-	Absent

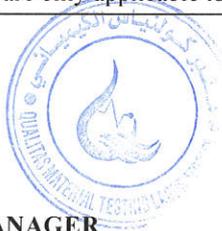
Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, DM: Dubai Municipality, CCFRA: Campden & Chorleywood Food Research Association, NA: Not Applicable, NP: Not Provided, WI: Work Instruction.
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Test method deviation	None
Test performed by Emp#	74 & 78 & 55
Report prepared by Emp#	72

The above test results are only applicable to the sample(s) referred above.

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END OF REPORT

TEST REPORT

Report No: QMTL/R-96579/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO		Sample ID	QMTL/S-96579
		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 17 Mar 2020
		Date Reported	21 Mar 2020
Sample Description	MTER-Chilled Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/9:26 AM
Sample Container	1x1L PB	Sampling Point	Valve
Sample Receipt Temp	20°C	Sample Onsite Temp	15°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
LEGIONELLA ANALYSIS				
Legionella	CCFRA 3.9.1 (5th Edition)	CFU/litre	1000	Not Detected
Legionella pneumophila sero group 1	CCFRA 3.9.1 (5th Edition)	-	-	Absent
Legionella pneumophila sero group 2-15	CCFRA 3.9.1 (5th Edition)	-	-	Absent
Legionella Species	CCFRA 3.9.1 (5th Edition)	-	-	Absent

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, DM: Dubai Municipality, CCFRA: Campden & Chorleywood Food Research Association, NA: Not Applicable, NP: Not Provided.
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Test method deviation	None
Test performed by Emp#	74 & 78 & 55
Report prepared by Emp#	72

The above test results are only applicable to the sample(s) referred above.

Reported By



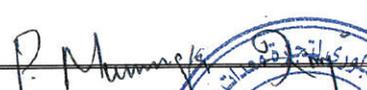
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LABORATORY MANAGER



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END OF REPORT

CONSULTING SERVICE REPORT

CUSTOMER: SERCO - NEW YORK UNIVERSITY, ABU DHABI	To: Mr. Ratheesh Muttath Operations Engineer	DATE: 07-03-2020			
CUSTOMER ID: 3003	Copy: SERCO - NYUAD	LAST VISIT: 08-02-2020			
CHILLED WATER ANALYSIS					
PARAMETER	CONTROL LIMITS	ETS			
pH	9.0 - 10.5	9.64			
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1563			
TDS, ppm	--	1015			
'P' Alkalinity, ppm as CaCO_3	--				
Total Hardness, ppm as CaCO_3	--				
Calcium Hardness, ppm as CaCO_3	--				
Chloride, ppm as Cl^-	--				
Iron, ppm as Fe	0 - 2.0	0.12			
Treatment Residuals					
Nitrite, ppm	> 800	840			
CaH Balance					
Dipslide	<10 ³	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	--	--			
Cynauric Acid					
<i>All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).</i>					
COMMENTS:			ACTION:		
The pH and Conductivity/TDS are found satisfactory. ⇔			No action recommended.		
Dissolved iron levels are found within control limits. ⇔			No action recommended.		
Corrosion Inhibitor levels found satisfactory. ⇔			No action recommended.		
The chilled water controller is calibrated. Dosing pumps, tubes and tank are in good condition.					
INVENTORY LEVELS			DOSAGE SCHEDULE		
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage	
Crystal 5547C			--		
Crystal 9040			--		
			--		
Service Engineer:	Murugaraaj		Client:	Mr. Ratheesh Muttath	
Signature:			Signature:		





CONSULTING SERVICE REPORT

CUSTOMER: SERCO - NEW YORK UNIVERSITY, ABU DHABI	To: Mr. Ratheesh Muttath Operations Engineer	DATE: 07-03-2020
CUSTOMER ID: 3003	Copy: SERCO - NYUAD	LAST VISIT: 08-02-2020

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	MTER			
pH	9.0 - 10.5	9.91			
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2096			
TDS, ppm	--	1362			
'P' Alkalinity, ppm as CaCO_3	--				
Total Hardness, ppm as CaCO_3	--				
Calcium Hardness, ppm as CaCO_3	--				
Chloride, ppm as Cl^-	--				
Iron, ppm as Fe	0 - 2.0	0.11			

Treatment Residuals

Nitrite, ppm	> 800	890			
CaH Balance					
Dipslide	<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 control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels found satisfactory. \Rightarrow	No action recommended.

The chilled water controller is calibrated. Dosing pumps, tubes and tank are in good condition. Corrosion inhibitor sensor are ok.

INVENTORY LEVELS

DOSAGE SCHEDULE

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

Service Engineer:	Murugaraaj	Client:	Mr. Ratheesh Muttath
Signature:		Signature:	





CONSULTING SERVICE REPORT

CUSTOMER: SERCO – NEW YORK UNIVERSITY, ABU DHABI	To: Mr. Ratheesh Muttath Operations Engineer	DATE: 07-03-2020
CUSTOMER ID: 3003	Copy: SERCO - NYUAD	LAST VISIT: 08-02-2020

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	Redundant			
pH	9.0 – 10.5	9.76			
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1648			
TDS, ppm	--	1071			
'P' Alkalinity, ppm as CaCO_3	--				
Total Hardness, ppm as CaCO_3	--				
Calcium Hardness, ppm as CaCO_3	--				
Chloride, ppm as Cl^-	--				
Iron, ppm as Fe	0 – 2.0	0.12			

Treatment Residuals

Nitrite, ppm	> 800	860			
CaH Balance					
Dipslide	<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.	⇨	No action recommended.
Dissolved iron levels are satisfactory.	⇨	No action recommended.
Corrosion Inhibitor levels satisfactory	⇨	No action recommended.

The chilled water controller is calibrated. Dosing pumps, tubes and tank are in good condition.

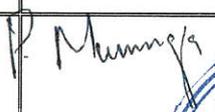
INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal 5547C			--	
Crystal 9040			--	
			--	
Service Engineer:	Murugaraaj		Client:	Mr. Ratheesh Muttath
Signature:			Signature:	



CONSULTING SERVICE REPORT

CUSTOMER: SERCO – NEW YORK UNIVERSITY, ABU DHABI		To: Mr. Ratheesh Muttath Operations Engineer		DATE: 07-03-2020	
CUSTOMER ID: 3003		Copy: SERCO - NYUAD		LAST VISIT: 08-02-2020	
CHILLED WATER ANALYSIS					
PARAMETER	CONTROL LIMITS	RTER			
pH	9.0 – 10.5	9.71			
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1968			
TDS, ppm	--	1279			
'P' Alkalinity, ppm as CaCO_3	--				
Total Hardness, ppm as CaCO_3	--				
Calcium Hardness, ppm as CaCO_3	--				
Chloride, ppm as Cl^-	--				
Iron, ppm as Fe	0 – 2.0	0.12			
Treatment Residuals					
Nitrite, ppm	\gt 800	920			
CaH Balance					
Dipslide	$<10^3$	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	--	--			
Cynauric Acid					
<i>All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (μmhos).</i>					
COMMENTS:			ACTION:		
The pH and Conductivity/TDS are found satisfactory. \Rightarrow			No action recommended.		
Dissolved iron levels are satisfactory. \Rightarrow			No action recommended.		
Corrosion Inhibitor levels found satisfactory \Rightarrow			No action recommended.		
The chilled water controller is calibrated. Dosing pumps, tubes and tank are in good condition.					
INVENTORY LEVELS			DOSAGE SCHEDULE		
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage	
Crystal 5547C			--		
Crystal 9040			--		
Service Engineer:	Murugaraaj		Client:	Mr. Ratheesh Muttath	
Signature:			Signature:		

