

TEST REPORT

Report No: QMTL/R-96561/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96561
		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 09 Mar 2020
ATTN : MR. JASMAN PINTO		Date Reported	24 Mar 2020
Sample Description	Main Swimming Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/11:50 AM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4.5°C	Sample Onsite Temp	26.4°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	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	Zero	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	1000	<1
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool 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.

Reported By




ANILA GEORGE
LABORATORY MANAGER

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END OF REPORT

TEST REPORT

Report No: QMTL/R-96564/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96564
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	Faculty Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/1:00 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4.5°C	Sample Onsite Temp	27.3°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	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	Zero	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	1000	7
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool 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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Report No: QMTL/R-96565/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96565
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	Kids Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/01:15 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4.5°C	Sample Onsite Temp	27.8°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	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	Zero	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	1000	4
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool 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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END OF REPORT

TEST REPORT

Report No: QMTL/R-96562/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96562
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	Jacuzzi-Hot Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/12:15 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4.5°C	Sample Onsite Temp	40°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	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	Zero	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	1000	8
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool 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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END OF REPORT

TEST REPORT

Report No: QMTL/R-96563/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO		Sample ID	QMTL/S-96563
		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 09 Mar 2020
		Date Reported	24 Mar 2020
Sample Description	Jacuzzi-Cold Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/12:20 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4.5°C	Sample Onsite Temp	10.7°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	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	Zero	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	1000	7
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Pool 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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END OF REPORT

TEST REPORT

Report No: QMTL/R-96593/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-96593	
	Date Received	07 Mar 2020	
	Date(s) Tested	07 Mar 2020 - 17 Mar 2020	
	Date Reported	21 Mar 2020	
Sample Description	Main Swimming Pool		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/11:50 AM
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	20°C	Sample Onsite Temp	26.4°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	<1	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 Pool Water 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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TEST REPORT

Report No: QMTL/R-96596/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96596
ATTN : MR. JASMAN PINTO		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 17 Mar 2020
		Date Reported	21 Mar 2020
Sample Description	Faculty Pool		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/1:00 PM
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	20°C	Sample Onsite Temp	27.3°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	<1	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 Pool Water 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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Report No: QMTL/R-96597/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-96597
ATTN : MR. JASMAN PINTO		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 17 Mar 2020
		Date Reported	21 Mar 2020
Sample Description	Kids Pool		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/1:15 PM
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	20°C	Sample Onsite Temp	27.8°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	<1	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 Pool Water 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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TEST REPORT

Report No: QMTL/R-96594/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO		Sample ID	QMTL/S-96594
		Date Received	07 Mar 2020
		Date(s) Tested	07 Mar 2020 - 17 Mar 2020
		Date Reported	21 Mar 2020
Sample Description	Jacuzzi-Hot Pool		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD	Sampling Date/Time	07.03.2020/12:15 PM
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	20°C	Sample Onsite Temp	40°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	<1	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 Pool Water 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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TEST REPORT

Report No: QMTL/R-96595/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates ATTN : MR. JASMAN PINTO	Sample ID	QMTL/S-96595		
	Date Received	07 Mar 2020		
	Date(s) Tested	07 Mar 2020 - 17 Mar 2020		
	Date Reported	21 Mar 2020		
Sample Description	Jacuzzi-Cold Pool			
Sample Type	Water	Sampling Method	QMTL-WI-16	
Client Name/Project	NP	Sampled By	QMTL Representative	
Location	NYUAD	Sampling Date/Time	07.03.2020/12:20 PM	
Sample Container	1x1L PB	Sampling Point	Pool	
Sample Receipt Temp	20°C	Sample Onsite Temp	10.7°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	<1	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 Pool Water 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.

Reported By




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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

SWIMMING POOL WATER ANALYSIS

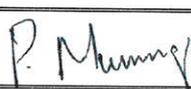
PARAMETER	CONTROL LIMITS	MAIN POOL			
pH	7.2 - 7.6	7.56			
Conductivity, $\mu\text{s}/\text{cm}$	Max 1500	764			
TDS, ppm	Max 1000	496			
'P' Alkalinity, ppm as CaCO_3	80 - 120	87			
Total Hardness, ppm as CaCO_3					
Calcium Hardness, ppm as CaCO_3	100 - 500	145			
Chloride, ppm as Cl^-	--				
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	<10 ³	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 - 2.0	1.14			
Cyanuric Acid	20 - 60	---			

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

COMMENTS:	ACTION:
The pH found satisfactory. ⇨	No Action Recommended
Chlorine levels are found satisfactory. ⇨	No Action Recommended
Calcium hardness and Alkalinity found satisfactory ⇨	No Action Recommended

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
HTH Chlorine			--	
Pool Acid			--	
Calcium Chloride				
Soda Ash				
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

SWIMMING POOL WATER ANALYSIS

PARAMETER	CONTROL LIMITS	FACULTY POOL			
pH	7.2 - 7.6	7.54			
Conductivity, $\mu\text{s}/\text{cm}$		964			
TDS, ppm		627			
'P' Alkalinity, ppm as CaCO_3	80 - 120	84			
Total Hardness, ppm as CaCO_3					
Calcium Hardness, ppm as CaCO_3	100 - 500	159			
Chloride, ppm as Cl ⁻	--				
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	<10 ³	ND			
Salinity in mg/l	--				
Free Residual Chlorine as Cl	1.0 - 2.0	1.30			
Cyanuric Acid	20 - 60	28			

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

COMMENTS:
ACTION:

The pH levels are satisfactory.



No Action Recommended.

Chlorine levels are found satisfactory.



No Action Recommended.

Calcium Hardness levels are satisfactory.



No Action Recommended.

Kindly add salt granules and pool acid to maintain the desired control parameters in the pool. Sand filter multiport valve is broken and needs to be replaced. Install a standby pump (recirculation) for the faculty pool. The sand media in the filter to be replaced every 2-3 years. Also install an AC inside the plant room.
Upgrade to a chlorine pH pool controller to maintain the chemical levels in the pool.

INVENTORY LEVELS
DOSAGE SCHEDULE

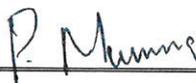
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Salt Granules			--	
Pool Acid			--	
Crystal Care			--	
Crystal Clear				
Calcium Chloride				
Soda Ash				

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

SWIMMING POOL WATER ANALYSIS

PARAMETER	CONTROL LIMITS	KIDS POOL			
pH	7.2 - 7.6	7.56			
Conductivity, $\mu\text{s}/\text{cm}$		958			
TDS, ppm		622			
'P' Alkalinity, ppm as CaCO_3	80 - 120	85			
Total Hardness, ppm as CaCO_3					
Calcium Hardness, ppm as CaCO_3	100 - 500	178			
Chloride, ppm as Cl^-	--				
Iron, ppm as Fe					

Treatment Residuals

Silica, ppm					
CaH Balance					
Dipslide	<10 ³	ND			
Salinity in mg/l	--				
Free Residual Chlorine as Cl	1.0 - 2.0	1.36			
Cyanuric Acid	20 - 60	26			

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

COMMENTS:

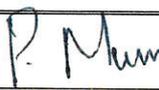
ACTION:

The pH levels are satisfactory.	⇒	No Action Recommended.
Chlorine levels are found satisfactory.	⇒	No Action Recommended.
Calcium Hardness levels are satisfactory.	⇒	No Action Recommended.

Kindly add salt granules and pool acid to maintain the desired control parameters in the pool. The salt chlorinator is faulty and must be replaced. Sand filter multiport valve is broken and needs to be replaced. Install a standby pump (recirculation) for the faculty pool. The sand media in the filter to be replaced every 2-3 years. Also install an AC inside the plant room.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Salt Granules			--	
Pool Acid			--	
Crystal Care			--	
Crystal Clear				
Calcium Chloride				
Soda Ash				
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

HYDRO POOL WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT HYDRO POOL			
pH	7.2 – 7.6	7.56			
Conductivity, $\mu\text{s}/\text{cm}$	Max 1500	745			
TDS, ppm	Max 1000	484			
'P' Alkalinity, ppm as CaCO_3	80 - 120	34			
Total Hardness, ppm as CaCO_3					
Calcium Hardness, ppm as CaCO_3					
Chloride, ppm as Cl^-					
Iron, ppm as Fe					

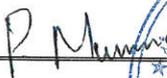
Treatment Residuals

Silica, ppm					
CaH Balance					
Dipslide	<10 ³	ND			
Phosphate/Phosphonate					
Free Residual Chlorine	1.0 – 2.0	<0.05			
Cyanuric Acid	20 - 60	--			

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

COMMENTS:	ACTION:
The pH is found are satisfactory ⇒	No Action Recommended.
Chlorine level is low ⇒	Add Chlorine tablets to maintain the chlorine.

Kindly add chorine and pool acid to maintain the desired control parameters in the Hydro Pool. There is no automatic dosing system. Kindly install an automatic dosing system to maintain the desired chemical levels in the system.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal Brome			--	
Pool Acid			--	
Crystal Care			--	
Crystal Clear				
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

HYDRO POOL WATER ANALYSIS

PARAMETER	CONTROL LIMITS	COLD HYDRO POOL			
pH	7.2 - 7.6	7.57			
Conductivity, $\mu\text{s}/\text{cm}$	Max 1500	274			
TDS, ppm	Max 1000	178			
'P' Alkalinity, ppm as CaCO_3	80 - 120	31			
Total Hardness, ppm as CaCO_3					
Calcium Hardness, ppm as CaCO_3					
Chloride, ppm as Cl^-					
Iron, ppm as Fe					
Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	<10 ³	ND			
Phosphate/Phosphonate					
Free Residual Chlorine	1.0 - 2.0	0.11			
Cyanuric Acid	20 - 60	--			

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

COMMENTS:

ACTION:

The pH is found are satisfactory \Rightarrow

No Action Recommended.

Chlorine levels are low \Rightarrow

Add Chlorine Tablets to maintain the chlorine.

Kindly add chorine and pool acid to maintain the desired control parameters in the Hydro Pool. There is no automatic dosing system. Kindly install an automatic dosing system to maintain the desired chemical levels in the system.

INVENTORY LEVELS

DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal Brome			--	
Pool Acid			--	
Crystal Care			--	
Crystal Clear				

Service Engineer: Murugaraaj

Client:

Mr. Ratheesh Muttath

Signature:

P. Munn

Signature:

