

## TEST REPORT

Report No: QMTL/R-121870/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>	Sample ID	QMTL/S-121870	
	Date Received	12 Sep 2020	
	Date(s) Tested	12 Sep 2020 - 14 Sep 2020	
	Date Reported	17 Sep 2020	
Sample Description	<b>Main Pool</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 12:05 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	30.2°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
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	24
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero

Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) 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, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference
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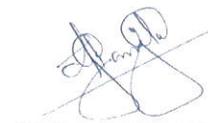
Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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The above test results are only applicable to the sample(s) referred above.

Reported By



**ANILA GEORGE**  
LABORATORY MANAGER



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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-121871/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-121871
ATTN : MR. JASMAN PINTO		Date Received	12 Sep 2020
		Date(s) Tested	12 Sep 2020 - 14 Sep 2020
		Date Reported	17 Sep 2020
Sample Description	Faculty Pool		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 12:30 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	30.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
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 Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) 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, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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END OF REPORT

## TEST REPORT

Report No: QMTL/R-121872/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-121872
		Date Received	12 Sep 2020
		Date(s) Tested	12 Sep 2020 - 14 Sep 2020
<b>ATTN : MR. JASMAN PINTO</b>		Date Reported	17 Sep 2020
Sample Description	<b>Kids Pool</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 12:50 PM
Sample Container	1x500ml PB	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	30°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
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 Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) 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, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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LABORATORY MANAGER



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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-121874/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-121874
ATTN : MR. JASMAN PINTO		Date Received	12 Sep 2020
		Date(s) Tested	12 Sep 2020 - 14 Sep 2020
		Date Reported	17 Sep 2020
Sample Description	Jacuzzi Pool, Cold Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 01:25 PM
Sample Container	1x500ml PB	Sampling Point	Jacuzzi
Sample Receipt Temp	4°C	Sample Onsite Temp	16.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	Zero	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	10@37°C	9
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	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, RSB: Regulation & Supervision Bureau, 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#	55 & 74
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Report prepared by Emp#	72
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LABORATORY MANAGER



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## TEST REPORT

Report No: QMTL/R-121873/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-121873
ATTN : MR. JASMAN PINTO		Date Received	12 Sep 2020
		Date(s) Tested	12 Sep 2020 - 14 Sep 2020
		Date Reported	17 Sep 2020
Sample Description	Jacuzzi Pool, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 01:05 PM
Sample Container	1x500ml PB	Sampling Point	Jacuzzi
Sample Receipt Temp	4°C	Sample Onsite Temp	40°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
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	16
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	Zero	Zero

Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) 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, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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END OF REPORT

## TEST REPORT

Report No: QMTL/R-121897/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-121897
ATTN : MR. JASMAN PINTO		Date Received	12 Sep 2020
		Date(s) Tested	12 Sep 2020 - 22 Sep 2020
		Date Reported	24 Sep 2020
Sample Description	Main Pool		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 12:00 PM
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	21°C	Sample Onsite Temp	30.2°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) specifications for Pool Water with respect to the above tests only.
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-121898/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-121898
ATTN : MR. JASMAN PINTO		Date Received	12 Sep 2020
		Date(s) Tested	12 Sep 2020 - 22 Sep 2020
		Date Reported	24 Sep 2020
Sample Description	Faculty Pool		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 12:15 PM
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	21°C	Sample Onsite Temp	30.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) 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, ISO : International Organization for Standardization, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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END OF REPORT

## TEST REPORT

Report No: QMTL/R-121899/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-121899
ATTN : MR. JASMAN PINTO		Date Received	12 Sep 2020
		Date(s) Tested	12 Sep 2020 - 22 Sep 2020
		Date Reported	24 Sep 2020
Sample Description	Kids Pool		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 12:40 PM
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	21°C	Sample Onsite Temp	30°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) 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, ISO : International Organization for Standardization, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-121901/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>	Sample ID	QMTL/S-121901		
	Date Received	12 Sep 2020		
	Date(s) Tested	12 Sep 2020 - 22 Sep 2020		
	Date Reported	24 Sep 2020		
Sample Description	<b>Jacuzzi Pool, Cold Water</b>			
Sample Type	Water	Sampling Method	QMTL-WI-16	
Client Name/Project	NP	Sampled By	QMTL Representative	
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 01:20 PM	
Sample Container	1x1L PB	Sampling Point	Jacuzzi	
Sample Receipt Temp	21°C	Sample Onsite Temp	16.8°C	
Sample Appearance	Clear	On-site Treatment	NA	
Reference	NP			

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) 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, ISO : International Organization for Standardization, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference
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Test method deviation	None
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Test performed by Emp#	55 & 74
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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-121900/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-121900
ATTN : MR. JASMAN PINTO		Date Received	12 Sep 2020
		Date(s) Tested	12 Sep 2020 - 22 Sep 2020
		Date Reported	24 Sep 2020
Sample Description	Jacuzzi Pool, Hot Water		
Sample Type	Water	Sampling Method	QMTL-WI-16
Client Name/Project	NP	Sampled By	QMTL Representative
Location	NYUAD, Abu Dhabi	Sampling Date/Time	12.09.2020 / 01:00 PM
Sample Container	1x1L PB	Sampling Point	Jacuzzi
Sample Receipt Temp	21°C	Sample Onsite Temp	40°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>LEGIONELLA ANALYSIS</b>				
Legionella	ISO 11731:2017 E (Matrix A-Procedure-5)	CFU/litre	<1	<1
Legionella pneumophila sero group 1	ISO 11731:2017 E	-	-	Absent
Legionella pneumophila sero group 2-15	ISO 11731:2017 E	-	-	Absent
Legionella Species	ISO 11731:2017 E	-	-	Absent

Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) 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, ISO : International Organization for Standardization, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference
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Test method deviation	None
Test performed by Emp#	55 & 74
Report prepared by Emp#	72

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**END OF REPORT**



## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO – NEW YORK UNIVERSITY, ABU DHABI</b>	<b>To: Mr. Ratheesh Muttath Operations Engineer</b>	<b>DATE: 12-09-2020</b>
<b>CUSTOMER ID: 3003</b>	<b>Copy: SERCO - NYUAD</b>	<b>LAST VISIT: 08-08-2020</b>

### SWIMMING POOL WATER ANALYSIS

PARAMETER	CONTROL LIMITS	MAIN POOL			
pH	7.2 – 7.6	7.51			
Conductivity, $\mu\text{s}/\text{cm}$	Max 1500	766			
TDS, ppm	Max 1000	497			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	91			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	188			
Chloride, ppm as $\text{Cl}^-$	--				
Iron, ppm as Fe					

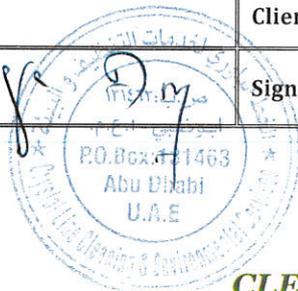
#### Treatment Residuals

Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine as Cl	1.0 – 2.0	1.74			
Cyanuric Acid	20 - 60	---			

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

COMMENTS:	ACTION:
The pH found satisfactory. <span style="float: right;">⇒</span>	No Action Recommended
Chlorine levels are found satisfactory. <span style="float: right;">⇒</span>	No Action Recommended
Calcium hardness and Alkalinity found satisfactory <span style="float: right;">⇒</span>	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

<b>CUSTOMER: SERCO - NEW YORK UNIVERSITY, ABU DHABI</b>	<b>To: Mr. Ratheesh Muttath Operations Engineer</b>	<b>DATE: 12-09-2020</b>
<b>CUSTOMER ID: 3003</b>	<b>Copy: SERCO - NYUAD</b>	<b>LAST VISIT: 08-08-2020</b>

### SWIMMING POOL WATER ANALYSIS

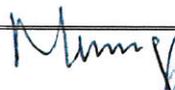
PARAMETER	CONTROL LIMITS	FACULTY POOL			
pH	7.2 - 7.6	7.31			
Conductivity, $\mu\text{s}/\text{cm}$		846			
TDS, ppm		549			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	91			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	165			
Chloride, ppm as $\text{Cl}^-$	--				
Iron, ppm as Fe					

Treatment Residuals					
Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Salinity in mg/l	--				
Free Residual Chlorine as Cl	1.0 - 2.0	1.33			
Cyanuric Acid	20 - 60	26			

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

COMMENTS:	ACTION:
The pH levels are satisfactory. <span style="float: right;">⇒</span>	No Action Recommended.
Chlorine levels are found satisfactory. <span style="float: right;">⇒</span>	No Action Recommended.
Calcium Hardness levels are satisfactory. <span style="float: right;">⇒</span>	No Action Recommended.

**Kindly add salt granules and pool acid to maintain the desired control parameters in the pool. 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

<b>CUSTOMER: SERCO – NEW YORK UNIVERSITY, ABU DHABI</b>	<b>To: Mr. Ratheesh Muttath Operations Engineer</b>	<b>DATE: 12-09-2020</b>
<b>CUSTOMER ID: 3003</b>	<b>Copy: SERCO - NYUAD</b>	<b>LAST VISIT: 08-08-2020</b>

### SWIMMING POOL WATER ANALYSIS

PARAMETER	CONTROL LIMITS	KIDS POOL			
pH	7.2 – 7.6	7.42			
Conductivity, $\mu\text{s}/\text{cm}$		899			
TDS, ppm		584			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	89			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$	100 - 500	144			
Chloride, ppm as $\text{Cl}^-$	--				
Iron, ppm as Fe					

#### Treatment Residuals

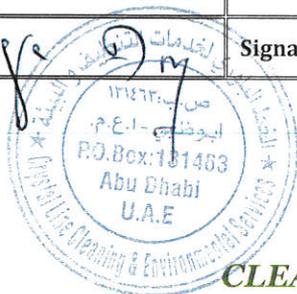
Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Salinity in mg/l	--				
Free Residual Chlorine as Cl	1.0 – 2.0	1.19			
Cyanuric Acid	20 – 60	22			

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

COMMENTS:	ACTION:
The pH levels are satisfactory. <span style="float: right;">⇒</span>	No Action Recommended.
Chlorine levels are found satisfactory. <span style="float: right;">⇒</span>	No Action Recommended.
Calcium Hardness levels are satisfactory. <span style="float: right;">⇒</span>	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. 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

<b>CUSTOMER: SERCO - NEW YORK UNIVERSITY, ABU DHABI</b>	<b>To: Mr. Ratheesh Muttath Operations Engineer</b>	<b>DATE: 12-09-2020</b>
<b>CUSTOMER ID: 3003</b>	<b>Copy: SERCO - NYUAD</b>	<b>LAST VISIT: 08-08-2020</b>

### HYDRO POOL WATER ANALYSIS

PARAMETER	CONTROL LIMITS	COLD HYDRO POOL			
pH	7.2 - 7.6	7.36			
Conductivity, $\mu\text{s}/\text{cm}$	Max 1500	847			
TDS, ppm	Max 1000	550			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	30			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$					
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					

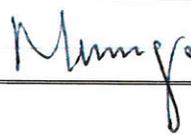
#### Treatment Residuals

Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	ND			
Phosphate/Phosphonate					
Free Residual Chlorine	1.0 - 2.0	0.14			
Cyanuric Acid	20 - 60	--			

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

COMMENTS:	ACTION:
The pH is found are satisfactory <span style="float: right;">⇒</span>	No Action Recommended.
Chlorine levels are low <span style="float: right;">⇒</span>	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				
<b>Service Engineer:</b>	Murugaraaj		<b>Client:</b>	Mr. Ratheesh Muttath
<b>Signature:</b>			<b>Signature:</b>	



## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO - NEW YORK UNIVERSITY, ABU DHABI</b>	<b>To: Mr. Ratheesh Muttath Operations Engineer</b>	<b>DATE: 12-09-2020</b>
<b>CUSTOMER ID: 3003</b>	<b>Copy: SERCO - NYUAD</b>	<b>LAST VISIT: 08-08-2020</b>

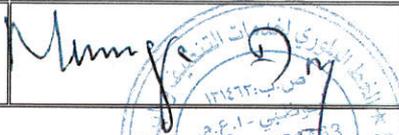
### HYDRO POOL WATER ANALYSIS

PARAMETER	CONTROL LIMITS	HOT HYDRO POOL			
pH	7.2 - 7.6	7.52			
Conductivity, $\mu\text{s}/\text{cm}$	Max 1500	621			
TDS, ppm	Max 1000	403			
'P' Alkalinity, ppm as $\text{CaCO}_3$	80 - 120	33			
Total Hardness, ppm as $\text{CaCO}_3$					
Calcium Hardness, ppm as $\text{CaCO}_3$					
Chloride, ppm as $\text{Cl}^-$					
Iron, ppm as Fe					
<b>Treatment Residuals</b>					
Silica, ppm					
CaH Balance					
Dipslide	<10 <sup>3</sup>	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  $\text{CaCO}_3$  except pH and conductivity ( $\mu\text{mhos}$ ).

COMMENTS:	ACTION:
The pH is found are satisfactory <span style="float: right;">⇒</span>	No Action Recommended.
Chlorine level is low <span style="float: right;">⇒</span>	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:	

