

CONSULTING SERVICE REPORT

CUSTOMER: SERCO - NEW YORK UNIVERSITY, ABU DHABI	To: Mr. Ratheesh Muttath Operations Engineer	DATE: 05-10-2019
CUSTOMER ID: 3003	Copy: SERCO - NYUAD	LAST VISIT: 07-09-2019

AMBIENT WATER ANALYSIS

PARAMETER	CONTROL LIMITS	North Side Water Tank			
pH at 25°C	7.0 - 9.2	8.04			
Conductivity at 25°C, µs/cm	1600 Max.	221			
Total Dissolved Solids (TDS)	1000 Max.	143			
Total Hardness, ppm as CaCO ₃	300 Max.	64			
Calcium Hardness, ppm as CaCO ₃	200 Max.	58			
Total Alkalinity	--	34			
Chloride, ppm as Cl ⁻	250 Max.	46			
Iron, ppm as Fe	0.2 Max.	<0.05			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ -), mg/l	50 Max.	<1.0			
Nitrite (NO ₂ -), mg/l	30 Max.	<0.05			
Fluorides (F), mg/l	15 Max.	<0.01			
Potassium (K), mg/l	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionable	ND			
Free Residual Chlorine as Cl	0.2 - 0.5	0.36			
Turbidity in NTU	4.0 Max	<1.0			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS:

- The pH and Conductivity/TDS are found satisfactory. ⇨
- Dissolved iron levels are within control limits. ⇨
- Chlorine levels found satisfactory. ⇨

ACTION:

- No action recommended.
- No action recommended.
- No action recommended.

**The dosing system is calibrated. Dosing pumps, low level sensor, dosing tubes are in good condition.
 There is no recirculation line/system for the water tank.
 Please check chlorine levels daily. Kindly inform Crystalline if levels fluctuate.**

INVENTORY LEVELS

DOSAGE SCHEDULE

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



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AMBIENT WATER ANALYSIS

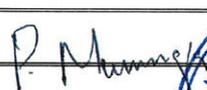
PARAMETER	CONTROL LIMITS	North Side Janitor Closed			
pH at 25°C	7.0 - 9.2	8.12			
Conductivity at 25°C, µs/cm	1600 Max.	214			
Total Dissolved Solids (TDS)	1000 Max.	139			
Total Hardness, ppm as CaCO ₃	300 Max.	68			
Calcium Hardness, ppm as CaCO ₃	200 Max.	62			
Total Alkalinity	--	31			
Chloride, ppm as Cl ⁻	250 Max.	45			
Iron, ppm as Fe	0.2 Max.	<0.05			
Sulphate (SO ₄), mg/l	250 Max.	<10			
Copper (Cu), mg/l	1 Max.	<0.05			
Aluminum (Al), mg/l	0.2 Max.	<0.05			
Zinc (Zn), mg/l	5 Max.	<0.05			
Nitrate (NO ₃ ⁻), mg/l	50 Max.	<1.0			
Nitrite (NO ₂ ⁻), mg/l	30 Max.	<0.05			
Fluorides (F), mg/l	15 Max.	<0.01			
Potassium (K), mg/l	12 Max.	<5.0			

Treatment Residuals

Odor	Unobjectionable	ND			
Free Residual Chlorine as Cl	0.2 - 0.5	0.30			
Turbidity in NTU	4.0 Max	<1.0			

All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (µmhos).

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. ⇒	No action recommended.
Dissolved iron levels are within control limits. ⇒	No action recommended.
Chlorine levels found satisfactory. ⇒	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Crystal SHC			--	
Service Engineer:	Murugaraaj		Client:	Mr. Ratheesh Muttath
Signature:			Signature:	

