



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-11-2020
Sample Point: Sigma-1 C10 building ETS Room	Sampled By: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	8.58
Conductivity, $\square$ s/cm	<2250	2033
TDS, ppm	<1500	1321
Chlorides as Cl <sup>-</sup> , ppm	<150	46
Total Hardness, ppm	<100 ppm as CaCO <sub>3</sub>	58
Total Alkalinity, ppm	<250 ppm as CaCO <sub>3</sub>	176
Total Iron, ppm as Fe	<1.0 ppm as Fe <sup>++</sup>	<0.10
Nitrite, ppm	800 - 1000 ppm as NaNO <sub>2</sub>	920

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\square$ mhos).

COMMENTS:	ACTION:
The pH level is satisfactory $\Rightarrow$	No action recommended.
Conductivity/TDS are satisfactory $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory $\Rightarrow$	No action recommended.
Nitrite levels are within control limits. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



CLEANER WATER GREENER TOMORROW



# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-11-2020
Sample Point: Sigma-2 C11 building ETS Room	Sampled By: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	8.17
Conductivity, $\square$ s/cm	<2250	2049
TDS, ppm	<1500	1331
Chlorides as Cl-, ppm	<150	40
Total Hardness, ppm	<100 ppm as CaCO <sub>3</sub>	48
Total Alkalinity, ppm	<250 ppm as CaCO <sub>3</sub>	162
Total Iron, ppm as Fe	<1.0 ppm as Fe <sup>++</sup>	<0.10
Nitrite, ppm	800 - 1000 ppm as NaNO <sub>2</sub>	890

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\square$ mhos).

COMMENTS:	ACTION:
The pH level is low $\Rightarrow$	Please maintained desired control limits.
Conductivity/TDS are found satisfactory. $\Rightarrow$	No action recommended.
Dissolved iron levels are satisfactory. $\Rightarrow$	No action recommended.
Nitrite levels are within control limits. $\Rightarrow$	No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



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# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-11-2020
Sample Point: Omega C10-A building ETS Room (low zone)	Sampled By: Crystalline Rep

### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	8.09
Conductivity, $\square$ s/cm	<2250	2060
TDS, ppm	<1500	1339
Chlorides as Cl-, ppm	<150	44
Total Hardness, ppm	<100 ppm as CaCO <sub>3</sub>	52
Total Alkalinity, ppm	<250 ppm as CaCO <sub>3</sub>	180
Total Iron, ppm as Fe	<1.0 ppm as Fe <sup>++</sup>	<0.10
Nitrite, ppm	800 - 1000 ppm as NaNO <sub>2</sub>	720

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\square$ mhos).

COMMENTS:	ACTION:
The pH level is low	⇒ Please maintained desired control limits.
Conductivity/TDS are found satisfactory.	⇒ No action recommended.
Dissolved iron levels are within control limit	⇒ No action recommended.
Nitrite levels are low.	⇒ Please maintained desired control limits.

Reported By

  
Murugaraaj  
Service Engineer



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# CRYSTALLINE ENVIRONMENTAL SERVICES

## CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-11-2020
Sample Point: Omega C10-A building ETS Room (high zone)	Sampled By: Crystalline Rep

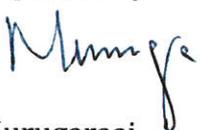
### CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	8.36
Conductivity, $\mu$ s/cm	<2250	2085
TDS, ppm	<1500	1355
Chlorides as Cl-, ppm	<150	38
Total Hardness, ppm	<100 ppm as CaCO <sub>3</sub>	46
Total Alkalinity, ppm	<250 ppm as CaCO <sub>3</sub>	176
Total Iron, ppm as Fe	<1.0 ppm as Fe <sup>++</sup>	<0.10
Nitrite, ppm	800 - 1000 ppm as NaNO <sub>2</sub>	820

\*\*\*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity ( $\mu$ mhos).

COMMENTS:	ACTION:
The pH level is low	⇒ Please maintained desired control limits.
Conductivity/TDS are found satisfactory.	⇒ No action recommended.
Dissolved iron levels are within control limit	⇒ No action recommended.
Nitrite levels are satisfactory.	⇒ No action recommended.

Reported By

  
Murugaraaj  
Service Engineer



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