



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-12-2020
Sample Point: Hydra C4 building ETS Room (low zone)	Sampled By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	9.51
Conductivity, \square s/cm	<2250	3780
TDS, ppm	<1500	2457
Chlorides as Cl-, ppm	<150	110
Total Hardness, ppm	<100 ppm as CaCO ₃	98
Total Alkalinity, ppm	<250 ppm as CaCO ₃	66
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	0.16
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	>1250

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

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

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: 08-12-2020
Sample Point: Hydra C4 building ETS Room (high zone)	Sampled By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	10.46
Conductivity, \square s/cm	<2250	3630
TDS, ppm	<1500	2359
Chlorides as Cl-, ppm	<150	120
Total Hardness, ppm	<100 ppm as CaCO ₃	30
Total Alkalinity, ppm	<250 ppm as CaCO ₃	118
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	0.13
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	>1250

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

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

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CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
Site Location: City of Lights	Date: 08-12-2020
Sample Point: Hydra C5 building ETS Room (low zone)	Sampled By: Crystalline Rep

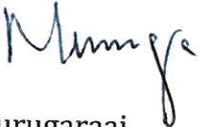
CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	10.60
Conductivity, μ s/cm	<2250	4430
TDS, ppm	<1500	2879
Chlorides as Cl ⁻ , ppm	<150	135
Total Hardness, ppm	<100 ppm as CaCO ₃	46
Total Alkalinity, ppm	<250 ppm as CaCO ₃	84
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	0.17
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	>1250

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

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

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CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
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Sample Point: Hydra C5 building ETS Room (high zone)	Sampled By: Crystalline Rep

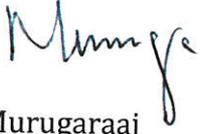
CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	10.42
Conductivity, $\mu\text{s}/\text{cm}$	<2250	3060
TDS, ppm	<1500	1989
Chlorides as Cl-, ppm	<150	105
Total Hardness, ppm	<100 ppm as CaCO_3	44
Total Alkalinity, ppm	<250 ppm as CaCO_3	118
Total Iron, ppm as Fe	<1.0 ppm as Fe^{++}	0.08
Nitrite, ppm	800 - 1000 ppm as NaNO_2	>1250

***All test results expressed in parts per million (ppm) as CaCO_3 except pH and conductivity (\square mhos).

COMMENTS:	ACTION:
The pH level is slightly high. \Rightarrow	Please maintained desired control limits.
Conductivity/TDS are high \Rightarrow	Please maintain the desired control limit.
Dissolved iron levels are satisfactory. \Rightarrow	No action recommended.
Nitrite levels are high. \Rightarrow	Please maintain the desired control limits.

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: 08-12-2020
Sample Point: Hydra C6 building ETS Room (low zone)	Sampled By: Crystalline Rep

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	10.31
Conductivity, \square s/cm	<2250	3490
TDS, ppm	<1500	2268
Chlorides as Cl-, ppm	<150	145
Total Hardness, ppm	<100 ppm as CaCO ₃	24
Total Alkalinity, ppm	<250 ppm as CaCO ₃	104
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	0.02
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	>1250

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

COMMENTS:	ACTION:
The pH level is slightly high.	⇒ Please maintained desired control limits.
Conductivity/TDS are high	⇒ Please maintain the desired control limit.
Dissolved iron levels are satisfactory.	⇒ No action recommended.
Nitrite levels are high.	⇒ Please maintain the desired control limits.

Reported By

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CONSULTING TEST REPORT

CUSTOMER: TAFAWUQ FACILITY MANAGEMENT	
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Sample Point: Hydra C6 building ETS Room (high zone)	Sampled By: Crystalline Rep

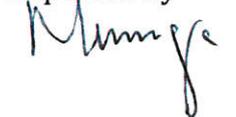
CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	8.5 - 10.0	10.80
Conductivity, \square s/cm	<2250	3600
TDS, ppm	<1500	2340
Chlorides as Cl ⁻ , ppm	<150	105
Total Hardness, ppm	<100 ppm as CaCO ₃	38
Total Alkalinity, ppm	<250 ppm as CaCO ₃	104
Total Iron, ppm as Fe	<1.0 ppm as Fe ⁺⁺	0.11
Nitrite, ppm	800 - 1000 ppm as NaNO ₂	>1250

***All test results expressed in parts per million (ppm) as CaCO₃ except pH and conductivity (\square mhos).

COMMENTS:	ACTION:
The pH level is slightly high.	Please maintained desired control limits.
Conductivity/TDS are high \Rightarrow	Please maintain the desired control limit.
Dissolved iron levels are satisfactory. \Rightarrow	No action recommended.
Nitrite levels are high. \Rightarrow	Please maintain the desired control limits.

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