



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST, ABUDHABI	DATE: 22-02-2020
SITE LOCATION: ADGM SQUARE	SAMPLE POINT: TOWER 1-RETAIL 01- COOLING SUBSTATION ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	10.48
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2107
TDS, ppm	--	1369
Iron, ppm as Fe	0 - 2.0	0.98
Treatment Residuals		
Nitrite, ppm	> 800	880
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are within the control limits \Rightarrow	No action recommended.

Reported By

P. Murugaraj

Murugaraj
Service Engineer



CLEANER WATER GREENER TOMORROW



CRYSTALLINE ENVIRONMENTAL SERVICES

CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST, ABUDHABI	DATE: 22-02-2020
SITE LOCATION: ADGM SQUARE	SAMPLE POINT: TOWER 1 LEVEL 30-CHILLER ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	10.46
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2090
TDS, ppm	--	1358
Iron, ppm as Fe	0 - 2.0	0.65
Treatment Residuals		
Nitrite, ppm	> 800	960
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are within the control limits \Rightarrow	No action recommended.

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CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST, ABUDHABI	DATE: 22-02-2020
SITE LOCATION: ADGM SQUARE	SAMPLE POINT: TOWER 2- RETAIL 01- COOLING SUBSTATION ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 - 10.5	10.47
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1926
TDS, ppm	--	1251
Iron, ppm as Fe	0 - 2.0	---
Treatment Residuals		
Nitrite, ppm	> 800	820
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are within the control limits \Rightarrow	No action recommended.

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CUSTOMER: SERCO, MIDDLE EAST, ABUDHABI	DATE: 22-02-2020
SITE LOCATION: ADGM SQUARE	SAMPLE POINT: TOWER 2-LEVEL 30 CHILLER

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
Ph	9.0 – 10.5	10.39
Conductivity, $\mu\text{s/cm}$	Max 3500	1890
TDS, ppm	--	1228
Iron, ppm as Fe	0 – 2.0	0.14
Treatment Residuals		
Nitrite, ppm	> 800	840
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are within the control limits \Rightarrow	No action recommended.

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CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST, ABUDHABI	DATE: 22-02-2020
SITE LOCATION: ADGM SQUARE	SAMPLE POINT: TOWER 3- RETA IL 01- COOLING SUBSTATION ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	9.78
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	2240
TDS, ppm	--	1456
Iron, ppm as Fe	0 - 2.0	0.26
Treatment Residuals		
Nitrite, ppm	> 800	990
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are within the control limits \Rightarrow	No action recommended.

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CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST, ABUDHABI	DATE: 22-02-2020
SITE LOCATION: ADGM SQUARE	SAMPLE POINT: TOWER 3-LEVEL 36 CHILLER

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	10.41
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1990
TDS, ppm	--	1293
Iron, ppm as Fe	0 - 2.0	0.05
Treatment Residuals		
Nitrite, ppm	> 800	830
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are within the control limits \Rightarrow	No action recommended.

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CUSTOMER: SERCO, MIDDLE EAST, ABUDHABI	DATE: 22-02-2020
SITE LOCATION: ADGM SQUARE	SAMPLE POINT: TOWER 4- RETAIL 01-COOLING SUBSTATION ROOM

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	10.45
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	1946
TDS, ppm	--	1264
Iron, ppm as Fe	0 - 2.0	0.43
Treatment Residuals		
Nitrite, ppm	> 800	810
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
The pH level is satisfactory \Rightarrow	No action recommended.
The Conductivity levels are satisfactory \Rightarrow	No action recommended.
Dissolved iron levels are within the control limits. \Rightarrow	No action recommended.
Corrosion Inhibitor levels are within the control limits \Rightarrow	No action recommended.

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CONSULTING TEST REPORT

CUSTOMER: SERCO, MIDDLE EAST, ABUDHABI	DATE: 22-02-2020
SITE LOCATION: ADGM SQUARE	SAMPLE POINT: TOWER 4-LEVEL 36 CHILLER

CHILLED WATER ANALYSIS

PARAMETER	CONTROL LIMITS	RESULTS
pH	9.0 - 10.5	10.48
Conductivity, $\mu\text{s}/\text{cm}$	Max 3500	3140
TDS, ppm	--	2041
Iron, ppm as Fe	0 - 2.0	0.24
Treatment Residuals		
Nitrite, ppm	> 800	1380
Dipslide	<10 ³	ND

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

COMMENTS:	ACTION:
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