

Summary

- No major issues.
- Water analysis for operations is now ongoing on a weekly basis.
- Batch 9 results show all dispensers operating within regulatory limits.
- Free chlorine has been reduced and is now between 0 and 0.1 ppm free chlorine).

Sub-systems status:

1. Source water

• Supply continues with no issues. Water test results remain as expected (brackish source, with high TSS, TDS, sodium and fluoride).

2. Reverse osmosis

• Unit working normally and operating at production volumes. No issues.

3. Ice production

• Both units working normally and operating at production volumes. No issues.

4. Dispensing systems

• All units working normally and operating at production volumes. No issues.

5. Wastewater

• Operational. No issues.

6. Power

Supply as expected. No issues.

7. General unit management.

- Change management programme has been initiated with questionnaires and user opinions being gathered and documented.
- Results are now being posted above each dispenser to enable users to see the water quality.
- Consumption of source water, product water (and ice) and production of wastewater are now being monitored.
- Test results for Batch 9 are attached below.

BASIS AFRICA LTD NAIROBI, KENYA

ATT: IAIN BREWSTER

Dear Sir,

RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 1 (BATCH 9)We refer to the water sample submitted to our laboratory for Bacteriological analysis. Attached please find the results.

We look forward to working with you.

Yours faithfully For **AQUATECH INDUSTRIES LTD.**

Corron

GIDEON MAINA GENERAL MANAGER

AUGUST 31ST, 2015

BACTERIOLOGICAL ANALYSIS

Sample N^{o.} : 1508/87

Lpo Nº :-

Date Sampled : 26/08/2015 Date Received : 27/08/2015

Sample Source : WATER SAMPLE-KAPESE- DISPENSER 1 (BATCH 9)
Sample Submitted by : BASIS AFRICA

EXAMINATION RESULTS.

TEST	KS 459 - 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	<1
MPN of Coliform Organisms in a 100 ml sample	Shall be absent	ND
MPN of E- Coli Organisms in a 100 ml sample	Shall be absent	ND
MPN of Feacal Coliform Organisms in a 100 ml sample	Shall be absent	ND

MPN: Most Probable Number

ND: Not Detected

KS: Kenya Standard (KEBS 2007)

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors.

BASIS AFRICA LTD NAIROBI, KENYA

ATT: IAIN BREWSTER

Dear Sir,

RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 3 (BATCH 9)We refer to the water sample submitted to our laboratory for Bacteriological analysis. Attached please find the results.

We look forward to working with you.

Yours faithfully For **AQUATECH INDUSTRIES LTD.**

GIDEON MAINAGENERAL MANAGER

AUGUST 31ST, 2015

BACTERIOLOGICAL ANALYSIS

Sample N^{o.} : 1508/88

Lpo № : -

Date Sampled : 26/08/2015 Date Received : 27/08/2015

Sample Source : WATER SAMPLE-KAPESE- DISPENSER 3 (BATCH 9)

Sample Source : WATER SAMPL
Sample Submitted by : BASIS AFRICA
EXAMINATION RESULTS.

TEST	KS 459 - 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	<1
MPN of Coliform Organisms in a 100 ml sample	Shall be absent	ND
MPN of E- Coli Organisms in a 100 ml sample	Shall be absent	ND
MPN of Feacal Coliform Organisms in a 100 ml sample	Shall be absent	ND

MPN: Most Probable Number

ND: Not Detected

KS: Kenya Standard (KEBS 2007)

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors.

BASIS AFRICA LTD NAIROBI, KENYA

ATT: IAIN BREWSTER

Dear Sir,

RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 5 (BATCH 9)We refer to the water sample submitted to our laboratory for Bacteriological analysis. Attached please find the results.

We look forward to working with you.

Yours faithfully For **AQUATECH INDUSTRIES LTD.**

GIDEON MAINAGENERAL MANAGER

AUGUST 31ST, 2015

BACTERIOLOGICAL ANALYSIS

Sample N^{o.} : 1508/89

Lpo № : -

Date Sampled : 26/08/2015 Date Received : 27/08/2015

Sample Source : WATER SAMPLE-KAPESE- DISPENSER 5 (BATCH 9)
Sample Submitted by : BASIS AFRICA

EXAMINATION RESULTS.

TEST	KS 459 - 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	<1
MPN of Coliform Organisms in a 100 ml sample	Shall be absent	ND
MPN of E- Coli Organisms in a 100 ml sample	Shall be absent	ND
MPN of Feacal Coliform Organisms in a 100 ml sample	Shall be absent	ND

MPN: Most Probable Number

ND: Not Detected

KS: Kenya Standard (KEBS 2007)

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors.

BASIS AFRICA LTD NAIROBI, KENYA

ATT: IAIN BREWSTER

Dear Sir,

RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 7 (BATCH 9)We refer to the water sample submitted to our laboratory for Bacteriological analysis. Attached please find the results.

We look forward to working with you.

Yours faithfully For **AQUATECH INDUSTRIES LTD.**

GIDEON MAINAGENERAL MANAGER

AUGUST 31ST, 2015

BACTERIOLOGICAL ANALYSIS

Sample N^{o.} : 1508/90

Lpo № : -

Date Sampled : 26/08/2015 Date Received : 27/08/2015

Sample Source : WATER SAMPLE-KAPESE- DISPENSER 7 (BATCH 9)

Sample Source : WATER SAMPL
Sample Submitted by : BASIS AFRICA
EXAMINATION RESULTS.

TEST	KS 459 - 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	<1
MPN of Coliform Organisms in a 100 ml sample	Shall be absent	ND
MPN of E- Coli Organisms in a 100 ml sample	Shall be absent	ND
MPN of Feacal Coliform Organisms in a 100 ml sample	Shall be absent	ND

MPN: Most Probable Number

ND: Not Detected

KS: Kenya Standard (KEBS 2007)

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors.

BASIS AFRICA LTD NAIROBI, KENYA

ATT: IAIN BREWSTER

Dear Sir,

RE: WATER QUALITY ANALYSIS REPORT-CONTROL (BATCH 9)

We refer to the water sample submitted to our laboratory for Physical Chemical and Bacteriological analysis. Attached please find the results.

We look forward to working with you.

Yours faithfully For **AQUATECH INDUSTRIES LTD.**

GIDEON MAINAGENERAL MANAGER

AUGUST 31ST, 2015

WATER QUALITY ANALYSIS: PHYSICAL & CHEMICAL TESTS

Sample No.

Lpo Nº

Date Sampled : 26/08/2015
Date Received : 27/08/2015
Sample Source : WATER SAMPLE-KAPESE – CONTROL (BATCH 9)
Sample Submitted by : BASIS AFRICA

PARAMETERS : BASIS A	UNITS	RESULTS	KS 459 – 1: 2007 THIRD EDITION 2007
PHYSICAL TESTS			
PH	pH Units	7.90	6.5 - 8.5
Turbidity	NTU	0.19	< 5.0
Color	Pt. Co. APHA	3.0	15 TCU
Total Suspended Solids	Mg/I	ND	NIL
Total Dissolved Solids	Mg/L	24.1	1000 Max.
Conductivity	Micro Siemens/cm	51.5	NS
CHEMICAL TESTS (ANIONS)			
Phenolphthalein Alkalinity	Mg/I CaCO ₃	ND	NS
Total Alkalinity	Mg/I CaCO ₃	13.0	NS
Chloride	Mg/I Cl ⁻	8.0	250
Fluoride	Mg/I F	0.08	1.5
Sulfate	Mg/I SO ₄	ND	400
Nitrate	Mg/L NO ₃	1.2	50
Nitrite	Mg/I NO ₂	0.003	3.0
Phosphate	Mg/I PO ₄ -3	0.10	2.2
Sulfide	Mg/I S ²⁻	0.001	0.1
CHEMICAL TESTS (CATIONS)			
Sodium	Mg/l Na	12.05	200
Potassium	Mg/I K	0.6	50
Calcium	Mg/I Ca	0.38	150
Magnesium	Mg/I Mg	0.06	100
Iron	Mg/I Fe	0.04	0.3
Manganese	Mg/I Mn	0.3	0.5
Ammonia	Mg/I NH ₃	0.02	0.5
Copper	Mg/I Cu	0.07	1.0
Zinc	Mg/l Zn	0.03	5.0
Chromium	Mg/I Cr	0.019	0.05
OTHER PARAMETERS			
Total Hardness	Mg/I CaCO ₃	7.0	300
Calcium Hardness	Mg/I Ca ²⁺	1.99	NS
Magnesium Hardness	Mg/I Mg ²⁺	0.79	NS
Dissolved Silica	Mg/I SiO ₂	5.2	NS
Free Chlorine	Mg/I Cl ₂	0.04	0.2
Free Carbon Dioxide	Mg/I CO ₂	2.0	NS

NS: No Set Standard ND: Not Detected

KS: Kenya Standard (KEBS 2007)

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors

AARON MUTHOKA

WATER QUALITY LAB.

AUGUST 31ST, 2015

BACTERIOLOGICAL ANALYSIS

Sample No. : 1508/85

Lpo Nº

: 26/08/2015 Date Sampled

Date Sampled : 26/08/2015

Date Received : 27/08/2015

Sample Source : WATER SAMPLE-KAPESE - CONTROL(BATCH 9)

Sample Submitted by : BASIS AFRICA

EXAMINATION RESULTS.

TEST	KS 459 - 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	<1
MPN of Coliform Organisms in a 100 ml sample	Shall be absent	ND
MPN of E- Coli Organisms in a 100 ml sample	Shall be absent	ND
MPN of Feacal Coliform Organisms in a 100 ml sample	Shall be absent	ND

MPN: Most Probable Number

ND: Not Detected

KS: Kenya Standard (KEBS 2007)

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors.

AARON MUTHOKA

WATER QUALITY LAB

BASIS AFRICA LTD NAIROBI, KENYA

ATT: IAIN BREWSTER

Dear Sir,

RE: WATER QUALITY ANALYSIS REPORT-ICE MACHINE 1 (BATCH 9)We refer to the water sample submitted to our laboratory for Physical Chemical and Bacteriological analysis. Attached please find the results.

We look forward to working with you.

Yours faithfully For **AQUATECH INDUSTRIES LTD.**

Baron

GIDEON MAINAGENERAL MANAGER

AUGUST 31ST, 2015

WATER QUALITY ANALYSIS: PHYSICAL & CHEMICAL TESTS

Sample No.

Lpo Nº

Date Sampled : 26/08/2015
Date Received : 27/08/2015
Sample Source : WATER SAMPLE-KAPESE – ICE MACHINE 1 (BATCH 9)
Sample Submitted by : BASIS AFRICA

PARAMETERS : BASIS A	UNITS	RESULTS	KS 459 – 1: 2007 THIRD EDITION 2007
PHYSICAL TESTS			
PH	pH Units	7.65	6.5 - 8.5
Turbidity	NTU	0.57	< 5.0
Color	Pt. Co. APHA	1.0	15 TCU
Total Suspended Solids	Mg/l	ND	NIL
Total Dissolved Solids	Mg/L	14.8	1000 Max.
Conductivity	Micro Siemens/cm	32.1	NS
CHEMICAL TESTS (ANIONS)			
Phenolphthalein Alkalinity	Mg/I CaCO ₃	ND	NS
Total Alkalinity	Mg/I CaCO ₃	6.0	NS
Chloride	Mg/I Cl ⁻	6.0	250
Fluoride	Mg/I F	ND	1.5
Sulfate	Mg/I SO ₄	ND	400
Nitrate	Mg/L NO ₃	0.6	50
Nitrite	Mg/I NO ₂	0.003	3.0
Phosphate	Mg/I PO ₄ -3	0.09	2.2
Sulfide	Mg/I S ²⁻	ND	0.1
CHEMICAL TESTS (CATIONS)			
Sodium	Mg/l Na	8.09	200
Potassium	Mg/I K	0.6	50
Calcium	Mg/I Ca	1.60	150
Magnesium	Mg/I Mg	0.02	100
Iron	Mg/I Fe	0.01	0.3
Manganese	Mg/l Mn	0.3	0.5
Ammonia	Mg/I NH ₃	0.01	0.5
Copper	Mg/I Cu	0.01	1.0
Zinc	Mg/l Zn	0.08	5.0
Chromium	Mg/I Cr	0.005	0.05
OTHER PARAMETERS			
Total Hardness	Mg/I CaCO ₃	4.0	300
Calcium Hardness	Mg/I Ca ²⁺	2.30	NS
Magnesium Hardness	Mg/I Mg ²⁺	0.89	NS
Dissolved Silica	Mg/I SiO ₂	1.0	NS
Free Chlorine	Mg/I Cl ₂	ND	0.2
Free Carbon Dioxide	Mg/I CO ₂	1.0	NS

NS: No Set Standard ND: Not Detected

KS: Kenya Standard (KEBS 2007)

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors

AARON MUTHOKA

WATER QUALITY LAB.

AUGUST 31ST, 2015

BACTERIOLOGICAL ANALYSIS

Sample No. : 1508/86

Lpo Nº

: 26/08/2015 Date Sampled Date Received
Sample Source : 27/08/2015

: WATER SAMPLE-KAPESE - ICE MACHINE 1 (BATCH 9)

Sample Source : WATER SAMPLI Sample Submitted by : BASIS AFRICA **EXAMINATION RESULTS.**

TEST	KS 459 - 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	<1
MPN of Coliform Organisms in a 100 ml sample	Shall be absent	ND
MPN of E- Coli Organisms in a 100 ml sample	Shall be absent	ND
MPN of Feacal Coliform Organisms in a 100 ml sample	Shall be absent	ND

MPN: Most Probable Number

ND: Not Detected

KS: Kenya Standard (KEBS 2007)

The results relate to the sample(s) submitted. The laboratory will not be held responsible for any sampling errors.

AARON MUTHOKA

WATER QUALITY LAB