

### Summary

- No major issues.
- Water analysis for operations is now ongoing on a weekly basis.
- Batch 7 results show all dispensers operating within regulatory limits.
- Free chlorine has remained at slightly elevated levels (0.3 - 0.7 ppm free chlorine). This will reduce over the next week.

### 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.

- Higher than expected uptake of ice.
- 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 7 are attached below.

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-CONTROL (BATCH 7)**

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

The level of Free Chlorine is above the set Physical Chemical specifications.

We look forward to working with you.

Yours faithfully  
For **AQUATECH INDUSTRIES LTD.**



**GIDEON MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## WATER QUALITY ANALYSIS: PHYSICAL & CHEMICAL TESTS

Sample N<sup>o</sup> : 1508/59  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE – CONTROL (BATCH 7)  
Sample Submitted by : BASIS AFRICA

PARAMETERS	UNITS	RESULTS	KS 459 – 1: 2007 THIRD EDITION 2007
<b>PHYSICAL TESTS</b>			
PH	pH Units	7.03	6.5 – 8.5
Turbidity	NTU	0.46	< 5.0
Color	Pt. Co. APHA	ND	15 TCU
Total Suspended Solids	Mg/l	ND	NIL
Total Dissolved Solids	Mg/L	22.5	1000 Max.
Conductivity	Micro Siemens/cm	48.1	NS
<b>CHEMICAL TESTS (ANIONS)</b>			
Phenolphthalein Alkalinity	Mg/l CaCO <sub>3</sub>	ND	NS
Total Alkalinity	Mg/l CaCO <sub>3</sub>	13.0	NS
Chloride	Mg/l Cl <sup>-</sup>	5.0	250
Fluoride	Mg/l F	ND	1.5
Sulfate	Mg/l SO <sub>4</sub>	ND	400
Nitrate	Mg/L NO <sub>3</sub>	2.6	50
Nitrite	Mg/l NO <sub>2</sub>	0.005	3.0
Phosphate	Mg/l PO <sub>4</sub> <sup>-3</sup>	0.13	2.2
Sulfide	Mg/l S <sup>2-</sup>	0.001	0.1
<b>CHEMICAL TESTS (CATIONS)</b>			
Sodium	Mg/l Na	8.38	200
Potassium	Mg/l K	0.6	50
Calcium	Mg/l Ca	1.80	150
Magnesium	Mg/l Mg	0.06	100
Iron	Mg/l Fe	0.01	0.3
Manganese	Mg/l Mn	0.5	0.5
Ammonia	Mg/l NH <sub>3</sub>	0.02	0.5
Copper	Mg/l Cu	ND	1.0
Zinc	Mg/l Zn	0.09	5.0
Chromium	Mg/l Cr	0.004	0.05
<b>OTHER PARAMETERS</b>			
Total Hardness	Mg/l CaCO <sub>3</sub>	4.0	300
Calcium Hardness	Mg/l Ca <sup>2+</sup>	2.40	NS
Magnesium Hardness	Mg/l Mg <sup>2+</sup>	1.02	NS
Dissolved Silica	Mg/l SiO <sub>2</sub>	3.7	NS
<b>Free Chlorine</b>	<b>Mg/l Cl<sub>2</sub></b>	<b>0.77</b>	<b>0.2</b>
Free Carbon Dioxide	Mg/l CO <sub>2</sub>	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.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/59  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE – CONTROL (BATCH 7)  
Sample Submitted by : BASIS AFRICA

### **EXAMINATION RESULTS.**

TEST	KS 459 – 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	1-10
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 Faecal 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

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 1 (BATCH 7)**

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 MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/67  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE- DISPENSER 1 (BATCH 7)  
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 Faecal 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

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 2 (BATCH 7)**

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 MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/63  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE- DISPENSER 2 (BATCH 7)  
Sample Submitted by : BASIS AFRICA

### **EXAMINATION RESULTS.**

TEST	KS 459 – 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	1-10
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



AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 3 (BATCH 7)**

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 MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/64  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE- DISPENSER 3 (BATCH 7)  
Sample Submitted by : BASIS AFRICA

### **EXAMINATION RESULTS.**

TEST	KS 459 – 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	1-10
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

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 4 (BATCH 7)**

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

The level of Free Chlorine is above the set Physical Chemical specifications.

We look forward to working with you.

Yours faithfully  
For **AQUATECH INDUSTRIES LTD.**



**GIDEON MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## WATER QUALITY ANALYSIS: PHYSICAL & CHEMICAL TESTS

Sample N<sup>o</sup> : 1508/61  
 Lpo N<sup>o</sup> : -  
 Date Sampled : 18/08/2015  
 Date Received : 19/08/2015  
 Sample Source : WATER SAMPLE-KAPESE – DISPENSER 4 (BATCH 7)  
 Sample Submitted by : BASIS AFRICA

PARAMETERS	UNITS	RESULTS	KS 459 – 1: 2007 THIRD EDITION 2007
<b>PHYSICAL TESTS</b>			
PH	pH Units	7.11	6.5 – 8.5
Turbidity	NTU	0.34	< 5.0
Color	Pt. Co. APHA	ND	15 TCU
Total Suspended Solids	Mg/l	ND	NIL
Total Dissolved Solids	Mg/L	21.6	1000 Max.
Conductivity	Micro Siemens/cm	46.3	NS
<b>CHEMICAL TESTS (ANIONS)</b>			
Phenolphthalein Alkalinity	Mg/l CaCO <sub>3</sub>	ND	NS
Total Alkalinity	Mg/l CaCO <sub>3</sub>	14.0	NS
Chloride	Mg/l Cl <sup>-</sup>	7.0	250
Fluoride	Mg/l F	ND	1.5
Sulfate	Mg/l SO <sub>4</sub>	ND	400
Nitrate	Mg/L NO <sub>3</sub>	2.0	50
Nitrite	Mg/l NO <sub>2</sub>	0.014	3.0
Phosphate	Mg/l PO <sub>4</sub> <sup>-3</sup>	0.17	2.2
Sulfide	Mg/l S <sup>2-</sup>	0.001	0.1
<b>CHEMICAL TESTS (CATIONS)</b>			
Sodium	Mg/l Na	8.59	200
Potassium	Mg/l K	0.6	50
Calcium	Mg/l Ca	1.92	150
Magnesium	Mg/l Mg	0.09	100
Iron	Mg/l Fe	0.01	0.3
Manganese	Mg/l Mn	0.4	0.5
Ammonia	Mg/l NH <sub>3</sub>	0.02	0.5
Copper	Mg/l Cu	0.01	1.0
Zinc	Mg/l Zn	0.13	5.0
Chromium	Mg/l Cr	0.016	0.05
<b>OTHER PARAMETERS</b>			
Total Hardness	Mg/l CaCO <sub>3</sub>	7.0	300
Calcium Hardness	Mg/l Ca <sup>2+</sup>	2.72	NS
Magnesium Hardness	Mg/l Mg <sup>2+</sup>	1.62	NS
Dissolved Silica	Mg/l SiO <sub>2</sub>	0.7	NS
<b>Free Chlorine</b>	<b>Mg/l Cl<sub>2</sub></b>	<b>0.67</b>	<b>0.2</b>
Free Carbon Dioxide	Mg/l CO <sub>2</sub>	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.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/61  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE – DISPENSER 4 (BATCH 7)  
Sample Submitted by : BASIS AFRICA

### **EXAMINATION RESULTS.**

TEST	KS 459 – 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	1-10
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 Faecal 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

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 5 (BATCH 7)**

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 MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/65  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE- DISPENSER 5 (BATCH 7)  
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 Faecal 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

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 6 (BATCH 7)**

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 MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.



# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/66  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE- DISPENSER 6 (BATCH 7)  
Sample Submitted by : BASIS AFRICA

### **EXAMINATION RESULTS.**

TEST	KS 459 – 1: 2007 THIRD EDITION 2007	RESULTS
Total Bacteria Count/ ml	100 Max	1-10
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

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 7 (BATCH 7)**

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

The level of Free Chlorine is above the set Physical Chemical specifications.

We look forward to working with you.

Yours faithfully  
For **AQUATECH INDUSTRIES LTD.**



**GIDEON MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## WATER QUALITY ANALYSIS: PHYSICAL & CHEMICAL TESTS

Sample N<sup>o</sup> : 1508/60  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE – DISPENSER 7 (BATCH 7)  
Sample Submitted by : BASIS AFRICA

PARAMETERS	UNITS	RESULTS	KS 459 – 1: 2007 THIRD EDITION 2007
<b>PHYSICAL TESTS</b>			
PH	pH Units	6.92	6.5 – 8.5
Turbidity	NTU	0.32	< 5.0
Color	Pt. Co. APHA	ND	15 TCU
Total Suspended Solids	Mg/l	ND	NIL
Total Dissolved Solids	Mg/L	21.1	1000 Max.
Conductivity	Micro Siemens/cm	45.1	NS
<b>CHEMICAL TESTS (ANIONS)</b>			
Phenolphthalein Alkalinity	Mg/l CaCO <sub>3</sub>	ND	NS
Total Alkalinity	Mg/l CaCO <sub>3</sub>	12.0	NS
Chloride	Mg/l Cl <sup>-</sup>	7.0	250
Fluoride	Mg/l F	ND	1.5
Sulfate	Mg/l SO <sub>4</sub>	ND	400
Nitrate	Mg/L NO <sub>3</sub>	3.0	50
Nitrite	Mg/l NO <sub>2</sub>	0.005	3.0
Phosphate	Mg/l PO <sub>4</sub> <sup>-3</sup>	0.14	2.2
Sulfide	Mg/l S <sup>2-</sup>	0.001	0.1
<b>CHEMICAL TESTS (CATIONS)</b>			
Sodium	Mg/l Na	8.49	200
Potassium	Mg/l K	0.7	50
Calcium	Mg/l Ca	1.82	150
Magnesium	Mg/l Mg	0.07	100
Iron	Mg/l Fe	0.03	0.3
Manganese	Mg/l Mn	0.5	0.5
Ammonia	Mg/l NH <sub>3</sub>	0.02	0.5
Copper	Mg/l Cu	0.01	1.0
Zinc	Mg/l Zn	0.12	5.0
Chromium	Mg/l Cr	0.014	0.05
<b>OTHER PARAMETERS</b>			
Total Hardness	Mg/l CaCO <sub>3</sub>	6.0	300
Calcium Hardness	Mg/l Ca <sup>2+</sup>	2.56	NS
Magnesium Hardness	Mg/l Mg <sup>2+</sup>	1.23	NS
Dissolved Silica	Mg/l SiO <sub>2</sub>	2.9	NS
<b>Free Chlorine</b>	<b>Mg/l Cl<sub>2</sub></b>	<b>0.74</b>	<b>0.2</b>
Free Carbon Dioxide	Mg/l CO <sub>2</sub>	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.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/60  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE – DISPENSER 7 (BATCH 7)  
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 Faecal 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

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-DISPENSER 8 (BATCH 7)**

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 MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/68  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE- DISPENSER 8 (BATCH 7)  
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

AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-ICE MACHINE 1 (BATCH 7)**

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 MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/69  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE- ICE MACHINE 1 (BATCH 7)  
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



AUGUST 20<sup>TH</sup>, 2015

BASIS AFRICA LTD  
NAIROBI, KENYA

**ATT: IAIN BREWSTER**

Dear Sir,

**RE: WATER QUALITY ANALYSIS REPORT-ICE MACHINE 2 (BATCH 7)**

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

The level of Free Chlorine is above the set Physical Chemical specifications.

We look forward to working with you.

Yours faithfully  
For **AQUATECH INDUSTRIES LTD.**



**GIDEON MAINA**  
GENERAL MANAGER

**AARON MUTHOKA**  
WATER QUALITY LAB.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## WATER QUALITY ANALYSIS: PHYSICAL & CHEMICAL TESTS

Sample N<sup>o</sup> : 1508/62  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE – ICE MACHINE 2 (BATCH 7)  
Sample Submitted by : BASIS AFRICA

PARAMETERS	UNITS	RESULTS	KS 459 – 1: 2007 THIRD EDITION 2007
<b>PHYSICAL TESTS</b>			
PH	pH Units	7.02	6.5 – 8.5
Turbidity	NTU	0.56	< 5.0
Color	Pt. Co. APHA	ND	15 TCU
Total Suspended Solids	Mg/l	ND	NIL
Total Dissolved Solids	Mg/L	19.0	1000 Max.
Conductivity	Micro Siemens/cm	40.8	NS
<b>CHEMICAL TESTS (ANIONS)</b>			
Phenolphthalein Alkalinity	Mg/l CaCO <sub>3</sub>	ND	NS
Total Alkalinity	Mg/l CaCO <sub>3</sub>	10.0	NS
Chloride	Mg/l Cl <sup>-</sup>	6.0	250
Fluoride	Mg/l F	ND	1.5
Sulfate	Mg/l SO <sub>4</sub>	ND	400
Nitrate	Mg/L NO <sub>3</sub>	1.3	50
Nitrite	Mg/l NO <sub>2</sub>	0.003	3.0
Phosphate	Mg/l PO <sub>4</sub> <sup>-3</sup>	0.14	2.2
Sulfide	Mg/l S <sup>2-</sup>	ND	0.1
<b>CHEMICAL TESTS (CATIONS)</b>			
Sodium	Mg/l Na	7.87	200
Potassium	Mg/l K	0.5	50
Calcium	Mg/l Ca	2.50	150
Magnesium	Mg/l Mg	0.40	100
Iron	Mg/l Fe	0.02	0.3
Manganese	Mg/l Mn	0.2	0.5
Ammonia	Mg/l NH <sub>3</sub>	0.01	0.5
Copper	Mg/l Cu	0.02	1.0
Zinc	Mg/l Zn	0.09	5.0
Chromium	Mg/l Cr	0.010	0.05
<b>OTHER PARAMETERS</b>			
Total Hardness	Mg/l CaCO <sub>3</sub>	8.0	300
Calcium Hardness	Mg/l Ca <sup>2+</sup>	5.96	NS
Magnesium Hardness	Mg/l Mg <sup>2+</sup>	2.32	NS
Dissolved Silica	Mg/l SiO <sub>2</sub>	1.9	NS
<b>Free Chlorine</b>	<b>Mg/l Cl<sub>2</sub></b>	<b>0.27</b>	<b>0.2</b>
Free Carbon Dioxide	Mg/l CO <sub>2</sub>	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.

# AQUATECH INDUSTRIES LTD.

AUGUST 20<sup>TH</sup>, 2015

## **BACTERIOLOGICAL ANALYSIS**

Sample N<sup>o</sup> : 1508/62  
Lpo N<sup>o</sup> : -  
Date Sampled : 18/08/2015  
Date Received : 19/08/2015  
Sample Source : WATER SAMPLE-KAPESE – ICE MACHINE 2 (BATCH 7)  
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 Faecal 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