

Date: 03/03/2015

**SGS Kenya Limited Laboratory Services**

SGS Kenya Ltd.  
 SGS House  
 Ali Punjani Street  
 P.O. Box 90264  
 80100 Mombasa  
 Kenya

KURRENT TECHNOLOGIES LIMITED  
 P.O.BOX 16989 - 00620 NAIROBI  
 Nairobi  
 Kenya

**Analysis Report MA15-00222.001**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 10/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.1  
 SITE NAME: NDUNUNI BAY  
 LATITUDE: -1.98125  
 LONGITUDE: 40.84576667  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	6.66		6.5	8.5
Total Suspended Solids	APHA 2540	2	mg/l	--	30
Total Dissolved Solids	APHA 2540C	[31860.00]	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	[1.77]	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[5.80]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.90	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[1876]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[1038]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	34.700	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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 SITE No.1  
 SITE NAME: NDUNUNI BAY  
 LATITUDE: -1.98125  
 LONGITUDE: 40.84576667  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.02	mg/l	--	--
Total coliform count	ISO 9308-2	23	MPN/100ml	--	--
E. coli	ISO 9308-2	8	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	Nil	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.002**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 10/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.2  
 SITE NAME: BARGONI RIVER  
 LATITUDE: -2.042561819  
 LONGITUDE: 40.78765  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	6.68		6.5	8.5
Total Suspended Solids	APHA 2540	6	mg/l	--	30
Total Dissolved Solids	APHA 2540C	133.00	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	0.55	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	0.90	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.20	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[577]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[320]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	1.200	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.2  
 SITE NAME: BARGONI RIVER  
 LATITUDE: -2.042561819  
 LONGITUDE: 40.78765  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	1.02	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	0.02	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.27	mg/l	--	--
Total coliform count	ISO 9308-2	Not detected	MPN/100ml	--	--
E. coli	ISO 9308-2	Not detected	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	Nil	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.003**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 11/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.4  
 SITE NAME: PATE ISLAND BOREHOLE  
 LATITUDE: -2.138721856  
 LONGITUDE: 40.99983333  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	7.20		6.5	8.5
Total Suspended Solids	APHA 2540	5	mg/l	--	30
Total Dissolved Solids	APHA 2540C	[4512.00]	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	0.96	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[64.84]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.90	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[225]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[125]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	4.100	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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 SITE No.4  
 SITE NAME: PATE ISLAND BOREHOLE  
 LATITUDE: -2.138721856  
 LONGITUDE: 40.99983333  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.63	mg/l	--	--
Total coliform count	ISO 9308-2	110	MPN/100ml	--	--
E. coli	ISO 9308-2	8	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	1.96	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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## Analysis Report MA15-00222.004

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 11/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.5  
 SITE NAME: MANDAY BAY  
 LATITUDE: -2.11059738  
 LONGITUDE: 40.954809  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	[6.13]		6.5	8.5
Total Suspended Solids	APHA 2540	2	mg/l	--	30
Total Dissolved Solids	APHA 2540C	[30660.00]	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	[1.93]	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	0.99	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.90	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[1204]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[669]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	33.000	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



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 ANALYSIS STARTED: 21/01/2015  
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 SITE No.5  
 SITE NAME: MANDAY BAY  
 LATITUDE: -2.11059738  
 LONGITUDE: 40.954809  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.14	mg/l	--	--
Total coliform count	ISO 9308-2	23	MPN/100ml	--	--
E. coli	ISO 9308-2	Not detected	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	Nil	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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 80100 Mombasa  
 Kenya

KURRENT TECHNOLOGIES LIMITED  
 P.O.BOX 16989 - 00620 NAIROBI  
 Nairobi  
 Kenya

**Analysis Report MA15-00222.005**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 12/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.6  
 SITE NAME: HINDI BOREHOLE  
 LATITUDE: -2.180100014  
 LONGITUDE: 40.81651667  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	7.37		6.5	8.5
Total Suspended Solids	APHA 2540	2	mg/l	--	30
Total Dissolved Solids	APHA 2540C	1036.80	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	0.41	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[38.74]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.10	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[659]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[366]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	1.800	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

03032015 1207 0000047247

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Date: 03/03/2015

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**Analysis Report MA15-00222.005**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 12/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
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 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.6  
 SITE NAME: HINDI BOREHOLE  
 LATITUDE: -2.180100014  
 LONGITUDE: 40.81651667  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	0.01	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.26	mg/l	--	--
Total coliform count	ISO 9308-2	240	MPN/100ml	--	--
E. coli	ISO 9308-2	13	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	0.16	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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Kenya

## Analysis Report MA15-00222.006

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 12/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.8  
 SITE NAME: MBELE MBELE WETLAND  
 LATITUDE: -2.172364532  
 LONGITUDE: 40.82898333  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	6.98		6.5	8.5
Total Suspended Solids	APHA 2540	8	mg/l	--	30
Total Dissolved Solids	APHA 2540C	265.00	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	0.47	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[10.60]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	7.70	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[647]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[356]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	1.300	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.006**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 12/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.8  
 SITE NAME:MBELE MBELE WETLAND  
 LATITUDE: -2.172364532  
 LONGITUDE: 40.82898333  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	12.57	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	12.23	mg/l	--	--
Total coliform count	ISO 9308-2	>1800	MPN/100ml	--	--
E. coli	ISO 9308-2	>1800	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	Nil	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.007**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 12/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.9  
 SITE NAME: MBELE MBELE BOREHOLE  
 LATITUDE: -2.176843  
 LONGITUDE: 40.825118  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	7.63		6.5	8.5
Total Suspended Solids	APHA 2540	2	mg/l	--	30
Total Dissolved Solids	APHA 2540C	468.00	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	0.21	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[45.66]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.30	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[452]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[235]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	1.500	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.007**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 12/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.9  
 SITE NAME: MBELE MBELE BOREHOLE  
 LATITUDE: -2.176843  
 LONGITUDE: 40.825118  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	0.02	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.07	mg/l	--	--
Total coliform count	ISO 9308-2	79	MPN/100ml	--	--
E. coli	ISO 9308-2	23	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	1.57	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.008**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 12/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.10  
 SITE NAME: CHOMO DAM  
 LATITUDE: -2.096026667  
 LONGITUDE: 40.83148333  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	6.93		6.5	8.5
Total Suspended Solids	APHA 2540	4	mg/l	--	30
Total Dissolved Solids	APHA 2540C	67.20	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	0.10	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[9.28]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	Nil	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[1176]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[528]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	0.900	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.008**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 12/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.10  
 SITE NAME: CHOMO DAM  
 LATITUDE: -2.096026667  
 LONGITUDE: 40.83148333  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	2.92	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.17	mg/l	--	--
Total coliform count	ISO 9308-2	240	MPN/100ml	--	--
E. coli	ISO 9308-2	14	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	4.81	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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Kenya

KURRENT TECHNOLOGIES LIMITED  
P.O.BOX 16989 - 00620 NAIROBI  
Nairobi  
Kenya

**Analysis Report MA15-00222.009**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 14/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.13  
 SITE NAME: INGINI WETLAND  
 LATITUDE: -2.063517639  
 LONGITUDE: 40.81308333  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	7.22		6.5	8.5
Total Suspended Solids	APHA 2540	2	mg/l	--	30
Total Dissolved Solids	APHA 2540C	[30360.00]	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	[1.77]	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[3.80]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	Nil	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[2058]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[1022]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	31.800	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

03032015 1207 0000047247

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Date: 03/03/2015

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 P.O. Box 90264  
 80100 Mombasa  
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TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.02	mg/l	--	--
Total coliform count	ISO 9308-2	8	MPN/100ml	--	--
E. coli	ISO 9308-2	Not detected	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	0.49	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.010**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 13/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.15  
 SITE NAME:MANDAY BAY I  
 LATITUDE: -2.10814  
 LONGITUDE: 40.943418  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	7.75		6.5	8.5
Total Suspended Solids	APHA 2540	2	mg/l	--	30
Total Dissolved Solids	APHA 2540C	[31560.00]	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	[2.54]	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[4.42]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	1.10	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[1526]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[704]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	34.100	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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 SITE NAME:MANDAY BAY I  
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 LONGITUDE: 40.943418  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.13	mg/l	--	--
Total coliform count	ISO 9308-2	11	MPN/100ml	--	--
E. coli	ISO 9308-2	Not detected	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	Nil	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.011**

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 DATE SAMPLED: 13/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.16  
 SITE NAME: MANDAY BAY II  
 LATITUDE: -2.093588  
 LONGITUDE: 40.927068  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	7.36		6.5	8.5
Total Suspended Solids	APHA 2540	2	mg/l	--	30
Total Dissolved Solids	APHA 2540C	[31680.00]	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	[1.52]	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[4.70]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.30	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[975]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[483]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	34.100	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.05	mg/l	--	--
Total coliform count	ISO 9308-2	23	MPN/100ml	--	--
E. coli	ISO 9308-2	2	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	Nil	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Technical Signatory

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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## Analysis Report MA15-00222.012

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 DATE SAMPLED: 13/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.17  
 SITE NAME: MANDAY BAY III  
 LATITUDE: -2.079083  
 LONGITUDE: 40.926612  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	7.67		6.5	8.5
Total Suspended Solids	APHA 2540	2	mg/l	--	30
Total Dissolved Solids	APHA 2540C	[30600.00]	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	[1.70]	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	1.46	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.30	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[475]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[250]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	32.700	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

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Walter Ogara - Multi-Lab Manager



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TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	<0.007	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.08	mg/l	--	--
Total coliform count	ISO 9308-2	22	MPN/100ml	--	--
E. coli	ISO 9308-2	2	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	Nil	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

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Technical Signatory

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Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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**Analysis Report MA15-00222.013**

PRODUCT DESCRIPTION: WATER  
 SAMPLED BY: SGS  
 DATE SAMPLED: 16/01/2015  
 SAMPLE RECEIVED: 21/01/2015  
 ANALYSIS STARTED: 21/01/2015  
 MARKS: SAMPLE CONDITION: DELIVERED IN A STERILIN BOTTLE  
 SITE No.18  
 SITE NAME: LAMU BAY  
 LATITUDE: -2.263721  
 LONGITUDE: 40.901672  
 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
pH	APHA 4500 H+	7.62		6.5	8.5
Total Suspended Solids	APHA 2540	5	mg/l	--	30
Total Dissolved Solids	APHA 2540C	[32886.00]	mg/l	--	1200
Fluoride as F-	APHA 4500 F- D. SPADNS METHOD	1.50	mg/l	--	1.5
Residual chlorine	APHA-4500Cl2	<0.02	mg/l	--	0.1
Oil and Greases	APHA 5520E	Nil	% wt	--	Nil
Total Nitrogen	VELP	[133.63]	mg/l	--	2
Total Cyanide	APHA 4500 CN- C&D	Nil	mg/l	--	Nil
Phosphate In Water	APHA 4500-P	0.10	mg/l	--	--
Chemical Oxygen Demand	APHA 5220 D	[596]	mg/l	--	50
Total Phenols	APHA 5530 D	<0.001	mg/l	--	0.001
BOD 5 @ 20oC	APHA 5210 B	[351]	mg/l	--	30
Sulphides	APHA 4500 S-F	Nil	mg/l	--	0.1
Salinity	APHA 2510 B	35.300	ppt	--	--
Arsenic as As	APHA 3120 B	[<0.05]	mg/l	--	0.02
Cadmium as Cd	APHA 3120 B	<0.004	mg/l	--	0.01
Chromium as Cr	APHA 3120 B	<0.007	mg/l	--	2
Copper as Cu	APHA 3120 B	<0.006	mg/l	--	1

Authorised Signatory

Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

03032015 1207 0000047247

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only (if non-perishable).

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Date: 03/03/2015

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**Analysis Report MA15-00222.013**

PRODUCT DESCRIPTION: WATER  
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 SITE NAME: LAMU BAY  
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 REPORT COMMENTS: Based on the below tested parameters, the test results in [ ] are not within the limits of specification for Effluent Discharge into the Environment, Third Schedule.

TESTS	METHOD	RESULT	UNITS	MIN	MAX
Iron as Fe	APHA 3120 B	0.34	mg/l	--	--
Nickel as Ni	APHA 3120 B	<0.015	mg/l	--	0.3
Selenium as Se	APHA 3120 B	<0.01	mg/l	--	0.01
Zinc as Zn	APHA 3120 B	<0.002	mg/l	--	0.5
Total Phosphorus as PO4	APHA 3120 B	0.18	mg/l	--	--
Total coliform count	ISO 9308-2	>1800	MPN/100ml	--	--
E. coli	ISO 9308-2	>1800	MPN/100ml	--	Nil
Permanganate Index	ISO 8467:1993(E)	Nil	mg/l	--	--
Anionic Surfactants as MBAS	APHA 5540 C	Nil	mg/l	--	--

**\*\*End of Analytical Results\*\***

Authorised Signatory

Technical Signatory

Technical Signatory



Walter Ogara - Multi-Lab Manager



DAVID OMONDI-LAB ANALYST



Maurice Kitti-Chemist

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