



"Maji Safi Maisha Bora"
"Quality Water Healthy Livelihood"

KAKAMEGA COUNTY WATER AND SANITATION COMPANY

Water Quality monitoring and pollution control section

Client's name:COUNTY GOVERNMENT OF KAKAMEGA.....

Source of sample:MUSEMBE DAM.....

Ref. no734/08/19.....

Purpose:Physiochemical and bacteriological analysis.....

Date Received..... 09/08/19..... Date analyzed..... 10/08/19.....

	PARAMETER	TEST RESULT	KBS - STDS LIMIT
1.	Turbidity (FTU/NTU)	122	0-5
2.	PH(pH scale)	7.0	6.5-8.5
3.	Color (Hazen units)	1395	0-15
4.	Total suspended solids(mg/l)	97	0
5.	Iron (mg/l)	2.93	0.3
6.	Fluoride (mg/l)	0.0	1.5
7.	Manganese (mg/l)	0.236	0.1
8.	Sulfates(mg/l)	2	400
9.	Phosphates(mg/l)	5.9	-
10.	Nitrates(mg/l)	27.8	10
11.	Conductivity($\mu\text{S}/\text{cm}^2$)	73.4	2000
12.	Temperature ($^{\circ}\text{c}$)	22.3	-
13.	Dissolved oxygen (mg/l)	5.43	≥ 4.0
14.	Total dissolved solids (mg/l)	36.6	1500
15.	Salinity (g/l)	0.3	5
16.	Resistivity(M Ω)	0.01	-
17.	Alkalinity (mg/l)	37.4	500
18.	Total coli forms(no/100ml)	TNTC	Nil/100ml
19.	Fecal Coli forms(no/100ml)	NIL	Nil/100ml

NB: TNTC; Too Numerous To Count

REMARKS: The sample performed as shown above.

Analyzed by;

Wemo

(Lab technician)

Approved by;

Ghithilis

(Quality Assurance Manager)

Authorized by;

[Signature]

(Technical manager)

Kefinco House, Off Kakamega - Kisumu Road
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Email:kacwasco@gmail.com

Figure 1 musembe dam



"Maji Sali Maisha Bora"
"Quality Water Healthy Livelihood"

KAKAMEGA COUNTY WATER AND SANITATION COMPANY

Water Quality monitoring and pollution control section

Client's name: COUNTY GOVERNMENT OF KAKAMEGA

Source of sample: RIVER YALA

Ref. no: 731/08/19

Purpose: Physicochemical and bacteriological analysis

Date Received: 09/08/19 Date analyzed: 10/08/19

PARAMETER	TEST RESULT	KBS - STD: LIMIT
1. Turbidity (FTU/NTU)	333	0-5
2. PH(pH scale)	7.7	6.5-8.5
3. Color (Hazen units)	2720	0-15
4. Total suspended solids(mg/l)	253	0
5. Iron (mg/l)	2.88	0.3
6. Fluoride (mg/l)	0.0	1.5
7. Manganese (mg/l)	0.510	0.1
8. Sulfates(mg/l)	0	400
9. Phosphates(mg/l)	0.0	-
10. Nitrates(mg/l)	0	10
11. Conductivity(μ S/cm ²)	82.1	2000
12. Temperature (°C)	22.5	-
13. Dissolved oxygen (mg/l)	6.44	24.0
14. Total dissolved solids (mg/l)	40.8	1500
15. Salinity (g/l)	0.4	5
16. Resistivity(M Ω)	0.01	-
17. Alkalinity (mg/l)	36.6	500
18. Total coli forms(no/100ml)	TNTC	Ni/100ml
19. Fecal Coli forms(no/100ml)	TNTC	Ni/100ml

NB: TNTC; Too Numerous To Count

REMARKS: The sample performed as shown above.

Analyzed by:

Approved by:

Authorized by:

(Lab technician)

(Quality Assurance Manager)

(Technical manager)

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Figure 2YAla Butwehe



"Maji Safi Malaka Bora"
"Quality Water Healthy Livelihood"

KAKAMEGA COUNTY WATER AND SANITATION COMPANY

Water Quality monitoring and pollution control section

Client's name: COUNTY GOVERNMENT OF KAKAMEGA
Source of sample: RIVER NANDAMANYWA
Ref. no: 733/08/19
Purpose: Physicochemical and bacteriological analysis
Date Received: 09/08/19 Date analyzed: 10/08/19

	PARAMETER	TEST RESULT	KWS - STDS LIMIT
1.	Turbidity (FTU/NTU)	88.2	0-5
2.	pH(pH scale)	7.0	6.5-8.5
3.	Color (Hazen units)	814	0-15
4.	Total suspended solids(mg/l)	76	0
5.	Iron (mg/l)	1.24	0.3
6.	Fluoride (mg/l)	0.0	1.5
7.	Manganese (mg/l)	0.147	0.1
8.	Sulfate(mg/l)	0	400
9.	Phosphate(mg/l)	2.7	-
10.	Nitrate(mg/l)	7.6	10
11.	Conductivity(μ S/cm)	70.6	2000
12.	Temperature (°C)	22.4	-
13.	Dissolved oxygen (mg/l)	6.52	24.0
14.	Total dissolved solids (mg/l)	35.0	1500
15.	Salinity (g/l)	0.3	5
16.	Resistivity(M Ω)	0.01	-
17.	Alkalinity (mg/l)	43.4	500
18.	Total coli forms/no/100ml	TNTC	Nit/100ml
19.	Fecal Coli forms/no/100ml	2/100	Nit/100ml

NB: TNTC; Too Numerous To Count

REMARKS: The sample performed as shown above.

Analyzed by:

(Lab technician)

Approved by:

(Quality Assurance Manager)

Authorized by:

(Technical manager)

Figure 3shichendalilova Nandamaywa

Water Quality monitoring and pollution control section

Client's name: COUNTY GOVERNMENT OF KAKAMEGA
Source of sample: RIVER SHICHENDILOVA
Ref. no 732/08/19
Purpose: *Physicochemical and bacteriological analysis*
Date Received 09/08/19 Date analyzed 10/08/19

	PARAMETER	TEST RESULT	KBS - STDS LIMIT
1.	Turbidity (FTU/NTU)	68.8	0-5
2.	PH(pH scale)	6.8	6.5-8.5
3.	Color (Hazen units)	621	0-15
4.	Total suspended solids(mg/l)	48	0
5.	Iron (mg/l)	1.27	0.3
6.	Fluoride (mg/l)	0.0	1.5
7.	Manganese (mg/l)	0.119	0.1
8.	Sulfates(mg/l)	0	400
9.	Phosphates(mg/l)	1.6	
10.	Nitrates(mg/l)	7.9	10
11.	Conductivity($\mu S/cm$)	52.8	2000
12.	Temperature ($^{\circ}C$)	22.3	-
13.	Dissolved oxygen (mg/l)	6.51	≥ 4.0
14.	Total dissolved solids (mg/l)	26.2	1500
15.	Salinity (g/l)	0.3	5
16.	Resistivity(M Ω)	0.01	-
17.	Alkalinity (mg/l)	24	500
18.	Total coli forms(nu/100ml)	TNTC	Nil/100ml
19.	Fecal Coli forms(nu/100ml)	18/100	Nil/100ml

NB: TNTC; Too Numerous To Count

REMARKS: The sample performed as shown above.

Analyzed by;

(Lab technician)

Approved by;

(Quality Assurance Manager)

Authorized by;

(Technical manager)

Figure 4 Khubasali