

PLEASE RETAIN
ORIGINAL ORDER

[2 CONFIDENTIAL]

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UNITED NATIONS

ASSISTANCE MISSION FOR RWANDA



NATIONS UNIES

MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 4000.4/27/FMO

MED 1060/95

To: LOG OFFICER INDBATT

From: FMO

Date: 30 Oct 95

Subject: WATER ANALYSIS EMIRATES PURE SPRING WATER
EXPIRY DATES AUGUST AND SEPTEMBER, 1995

Reference:

A. Your 300/11/UNAMIR/Q dated 25 Oct 95.

1. In response to Ref A, please send one bottle of each of the above expired bottled water to Trafipro for bacterial analysis.
2. The water can be left at the Preventive Medicine Office located in 95 CMSG Outpatient Department any morning Monday to Friday.
3. Results will be sent to you after Bacterial analysis is carried out.

R Rankin
R RANKIN
MWO
FHO

10/30/95

10/30/95

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: 4/27-

To: FMO Remarks/Action: M2 22/10/95

Med Ops _____

Med Log _____

FHO _____

SO Med _____

O

Please initial and date when action complete then pass quickly



UNAMIR

UNITED NATIONS ASSISTANCE MISSION FOR RWANDA



300/11/UNAMIR/Q

25 Oct 95

From : INDBATT

To : FMO ✓

Info : SO FOOD

: SO LOG

: 95 CMSG

Subject : WATER ANALYSIS EMIRATES PURE SPRING
WATER EXPIRY DATES AUGUST AND
SEPTEMBER 1995

1. Please refer to your letter No 4000.4/27/FMO dated 30 Sep 95.
2. You are requested to please intimate by return Fax when INDBATT can send samples of the bottled water for chemical analysis.
3. Best Regards.

(Debashish Pal)
Captain
Logistics Officer
for CO INDBATT

UNITED NATIONS

ASSISTANCE MISSION FOR RWANDA



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MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 4000.4/27/FMO

MED: 1059/95

To: CO 95 CMSG

From: FMO

Date: 30 Oct 95

Subject: CONSUMPTION OF FOOD AND WATER
LOCAL EATING ESTABLISHMENTS

1. There has been an increase in Gastrointestinal disorders among 95 CMSG personnel returning from R&R in Nairobi. Symptoms, include nausea, vomiting, diarrhea, headaches and fever lasting for a couple of days.
2. A commonsense approach must be used when eating or drinking in any of the approved restaurants in Kigali or when eating in any restaurant outside of the Kigali area. Personnel are encouraged to follow the guideline listed below:
 - a. Only use bottled water or water from an approved source for drinking or brushing teeth.
 - b. Salads in local restaurants should be avoided. The vegetables may be washed in non-potable water.
 - c. Ice in drinks should be avoided. The Ice may be prepared from non-potable water; and
 - d. To help prevent foodborne illnesses, the consumption of rare meat and fish must be avoided.
3. There should be no major problems eating or drinking in the local restaurants as long as the above guidelines are followed.

R. Rankin MWD

for **M.E. FENSOM**
Maj
FMO

1/2 10/24/95

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ASSISTANCE MISSION FOR RWANDA



NATIONS UNIES

MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 4000.4/27/FMO -

MED: 1039/95

To: SO ACCOM

From: FMO

Date: 20 Oct 95

Subject: FOLLOW-UP INSPECTION
BELGIUM VILLAGE SWIMMING POOL

Reference:

A. 4000.4/27/FMO dated 11 Oct 95

1. The swimming pool at Belgium Village was reinspected by the FHO MWO Rankin on 19 October 1995.
2. The problem of a plugged impeller on the pump has been rectified. This has improved the backwash flow and water circulation in the pool.
3. There is still a problem trying to maintain the proper chlorine residual. This problem will continue until a chlorine stabilizer is added to the pool water.

Recommendations

Swimming in the Belgium Village Pool is not recommended until the proper chlorine residual can be maintained. Anyone using the pool does so at their own risk.

5. MWO Rankin will continue to monitor the pool chemistry and Bacterial quality of the pool water.

M FENSOM

Maj

FMO



UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 4000. 4/9527

MED: 1036/95

To: MALICOY LOG OPS

From: FMO

Date: 18 Oct 95

Subject: **EXPIRATION OF 3000 LITRES OF RESERVE BOTTLED WATER**

References:

- A. 4000. 4/27/FMO dated 04 Oct 95 .
- B. 4000.1 LOG - 50.
- C. Your letter NROO9/Malicoy dated 25 Sep 95.

1. The subject water was tested for caliform organisms. The results indicate that the water is safe for human consumption.
2. It is recommended that the water be rested on a monthly basis because the water is past the expiry date.

R RANKIN
MWO
for FMO

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MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 4000.4/27/FMO

MED. 1021/95

To: LOG OFFICER MALICOY

From: MAJ M.E. FENSOM
for FMO

Rankin MWO

Info : SO FOOD

Date: 11 Oct 95

Subject: EXPIRATION OF BOTTLED WATER

References:

A. 4000.4/27/ FMO dated 04 Oct 95.

B. Your letter NR 009/Malicoy dated 25 Sep 95

1. A bacterial analysis was carried out on your Jeema pure and natural Mineral water, expiry date 25 Sep 95. There were no coliform organisms found in the water.

2. The bottled water is considered fit for human consumption but because it is past the expiry date it should be retested on a monthly basis.

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: 4/27

To: FMO	Remarks/Action: <u>MB 11/10/95</u>
Med Ops	<u>yes 11/10/95</u>
Med Log	<u>CF 12/10</u>
FHO	<u>Your action FHO RR 16/12/95</u>
SO Med	<u>[Signature] 11/10/95</u>

Please initial and date when action complete then pass quickly

UNITED NATIONS
Assistance Mission for Rwanda



11/10
NATIONS UNIES
Mission pour l'Assistance au Rwanda

MINUTE

REF : 4000.1 LOG-50

TO : FHO ✓

INFO : C LOG O
95 CMSG
INDBATT

FROM : SO FOOD

DATE : 10 OCTOBER 1995

SUBJECT : BACTERIAL ANALYSIS OF BOTTLED WATER

1. INDBATT is currently holding 12537 Lt of EMIRATES bottled water with expiry dates of Aug/Sep 95 of which the analysis test was carried on 28 Sep 95 and was classified as potable and safe to drink.

2. The aim of this Letter is to request your office to re-test this water on monthly basis so as to ascertain its suitability for consumption.

3. Regards.

J M CHIMBA
CAPT
SO FOOD.

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ASSISTANCE MISSION FOR RWANDA



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MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 4000.4/27/FMO

MED 1020/95

To: SO ACCOM

From: FMO

Date: 11 Oct 95

Subject: PREVENTIVE MEDICINE INSPECTION
BELGIUM VILLAGE SWIMMING POOL.

1. The swimming pool at Belgium village was inspected by the FHO, MWO Rankin on 05 October 1995. The pool was again inspected on 09 October 1995 by the FHO and Mark Stewart, water treatment plant supervisor at Trafipro.

2. On the 05 October 1995 the swimming pool was closed because there was no free chlorine residual and the water was very turbid. A sample of water was collected for bacterial analysis. The results did not indicate any coliform organisms but there was a growth of other bacteria.

3. On the 09 October 1995 the swimming pool pump was inspected by Mr Stewart. He determined that the impeller was plugged causing a diminished flow which in turn prevented a good backwash and circulation of chemicals.

4. The swimming pool has a volume of approximately 90,000 litres of water. To achieve the required 1.5 - 2.5 ppm (parts per million) free chlorine residual, approximately 12 ounces of a 65 percent calcium hypochlorite solution is required to be added to the pool daily. The 1.5 - 2.5 ppm is very difficult to maintain in an outdoor pool because of the high chlorine demand due to sunlight.

5. Recommendations.

a. The swimming pool at Belgium village should remain closed until:

(1) Brown and Root can inspect the pump and filter and make any required repairs

(2) A free chlorine residual of 1.5 - 2.5 ppm is maintained in the pool

6. The FHO will provide the required calcium Hypochlorite to achieve the chlorine residual but Belgium village must procure their own supply of calcium hypochlorite.

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NATIONS UNIES

MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 4000.4/27/FMO

MED 1020/95

To: SO ACCOM

From: FMO

Date: 11 Oct 95

Subject: PREVENTIVE MEDICINE INSPECTION
BELGIUM VILLAGE SWIMMING POOL.

1. The swimming pool at Belgium village was inspected by the FHO, MWO Rankin on 05 October 1995. The pool was again inspected on 09 October 1995 by the FHO and Mark Stewart, water treatment plant supervisor at Trafipro.

2. On the 05 October 1995 the swimming pool was closed because there was no free chlorine residual and the water was very turbid. A sample of water was collected for bacterial analysis. The results did not indicate any coliform organisms but there was a growth of other bacteria.

3. On the 09 October 1995 the swimming pool pump was inspected by Mr Stewart. He determined that the impeller was plugged causing a diminished flow which in turn prevented a good backwash and circulation of chemicals.

4. The swimming pool has a volume of approximately 90,000 litres of water. To achieve the required 1.5 - 2.5 ppm (parts per million) free chlorine residual, approximately 12 ounces of a 65 percent calcium hypochlorite solution is required to be added to the pool daily. The 1.5 - 2.5 ppm is very difficult to maintain in an outdoor pool because of the high chlorine demand due to sunlight.

5. Recommendations.

a. The swimming pool at Belgium village should remain closed until:

(1) Brown and Root can inspect the pump and filter and make any required repairs

(2) A free chlorine residual of 1.5 - 2.5 ppm is maintained in the pool.

6. The FHO will provide the required calcium Hypochlorite to achieve the chlorine residual but Belgium village must procure their own supply of calcium hypochlorite.

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ASSISTANCE MISSION FOR RWANDA



UNAMIR - MINUAR

NATIONS UNIES

MISSION D'AIDE ASSISTANCE AU RWANDA

HQ UNAMIR MED BR

FILE 4000 4/27/FMO

MED. 1017/95

To: SO FOOD

From: FMO

Date: 09 Oct 95

Subject: **PREVENTIVE MEDICINE INSPECTION
BANGLADESH CRP AND MALAYSIAN RICE.**

Ref A. 4000 1 LOG - 50
04 October 1995
B. CFP 213 (Heath Manual)

1. The subject rations were inspected by MWO Rankin, FHO on 06 October 1995
2. There is approximately 16358 Bangladesh compact ration packs (CRP) and 384 cases of Malaysian rice held in a seacontainer at Log Base. The CPR have been at log Base since August 1994 and the Malaysian rice arrived in June of 1995

Recommendations.

3. The Bangladesh CPR's and Malaysian Rice are considered unfit for human consumption and should be destroyed for the following reasons:
 - a. The rice is infested with weavils
 - b. The ration packs are past their expiry date and therefore should not be retained
 - c. Seacontainers are poor areas for long term storage of rations. Food supplies should be stored in dry, well ventilated and vermin proof areas such as a warehouse.
4. For your action

M. Fensom

M. FENSOM

Mai

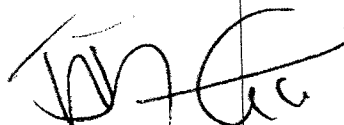


MINUTE

REF : 4000.1 LOG-50
TO : FORCE HEALTH OFFICER
INFO : 95CMMSG LOG OPS
FROM : SO FOOD
DATE : 04 OCTOBER 1995
SUBJECT : EXPIRATION OF CRP

1. There is quite a substantial amount of Bangladesh combat rations at the log base with the expiration date of JUL 95 and Malaysian Rice which is Bug infested.
2. You are requested to make arrangements to have these CRPs tested and come up with a report on their suitability for consumption.
3. Best regards.

MWO Rarakwi
FHO


J M CHIMBA
CAPT
SO FOOD.

1. The above for your nec. action
2. You are to liaise with Mr KAMANZI, tel 84806 who is from health ministry of Rwanda. He must always be called along for the inspection and destruction such rations.
3. I have earlier contacted the same doctor in respect of some UNAMIR expired rations but up to date he has not turned up. Pls remind him. Agmed(ops)



UNAMIR MINUAR

HQ UNAMIR MED BR
FILE 4000 4/27/FMO
MED 1013/95

To: SO LOG

From: FMO

Date: 06 Oct 95

Subject: BACTERIAL ANALYSIS POTABLE
WATER SOURCE - UNAMIR WATER POINTS.

1 The results of water samples taken from the above locations are as follows

<u>Date</u>	<u>Location</u>	<u>Result</u>
02 Oct 95	Kitchen water Trailer Trafipro	no coliform Organisms detected
02 Oct 95	Large potable water Bladder Trafipro	no coliform organisms detected
02 Oct 95	UNAMIR Town water Point	no coliform organisms detected but there was a heavy growth of other Bacteria
04 Oct 95	UNAMIR Town water point Two samples	no coliform organisms but both samples still showed a heavy growth of other Bacteria

2. The results indicate that the Trafipro water is fit for human consumption. The heavy growth of bacteria on samples taken from the town water point indicate that the potable water Bladder must be cleaned.

3 The water Treatment plant supervisor Trafipro was given verbal instructions not to use the subject water Bladder until it is cleaned and until repeat water samples are negative for Bacteria

4 The water from the second potable water bladder located at UNAMIR town water point will also be tested for Bacteria.



R RANKIN
MWO
for FMO



UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE: 4000.4/27/FMO
MED: 1012/95

To: SO FOOD

From: FMO

Date: 06 Oct 95

Subject: BACTERIAL ANALYSIS BOTTLED WATER LOG BASE.

The results of Bacterial analysis carried out on random samples of Bottled water held at Log Base are as follows.

<u>Bottled Water</u>	<u>Result</u>
a. Kilimanjaro Mountain spring Water expiry date September 96	Checked on two separate occasions Overgrowth of Bacteria
b. Breakfree natural spring water no expiry date indicated	Checked on two separate occasions, overgrowth Bacteria
c. Sanbenedetto natural spring Water	no Bacteria found
d. Rwenzori pure mineral water expiry date 04 Aug 96	no Bacteria found
e. 23 South Bottled Water no expiry date	no Bacteria found

2. The Breakfree natural spring water and Kilimanjaro Mountain spring water showed a heavy growth of Bacteria and therefore are considered unfit for human consumption.
3. The sanbenedetto, Rwenzori and 23 south Bottled water were all negative for Bacteria. This water is fit for human consumption but water past the expiry should be tested on a monthly basis.

C

R Rankin
R RANKIN
MWO
for FMQ

C

17/10/2014

TOP SECRET



UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE: 4000.4/27/FMO
MED: 1005/95

To: MALICOY LOG OPS

From: FMO

Date: 04 Oct 95

Subject: EXPIRATION OF 3000 LITRES RESERVE BOTTLED WATER

References:

- A. 4000.1 Log-50.
- B. Your letter NR 009/Malicoy dated 25 Sep 95.

1. In order to determine if your reserved bottled water is fit for human consumption, I will require two one litre bottles of the water for testing.
2. The water can be left with the Medical Section at Trafipro.
3. Results will be sent to you shortly after Bacterial analysis is completed.

R Rankin
R RANKIN
MWO
for FMO



UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE 4000 4/27/FMO
MED 1006/95

To: CO 95 CMSG

Info: DCOS SP

SO FOOD

From: FMO

Date: 04 Oct 95

Subject: PREVENTIVE MEDICINE INSPECTION 95 CMSG KITCHEN

Reference


A. CFP 213 (Health Manual).

1. The above facility was inspected by MWO RANKIN, FHO on 04 October, 1995. He was accompanied by MCpl BOOSE J, NCO i/c of the Kitchen in the absence of the Chief Cook away on LTA.

2. There were no problems noted during the inspection.

3. MCpl BOOSE J and the Kitchen Staff should be commended for the high standard of sanitation maintained in the food preparation areas, Dining Room and Storage areas.

4. Supervisors should encourage their staff to maintain this high standard of sanitation.


ME FENSOM
Major
FMO

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: 4000.4/27/Fmo

To: FMO Remarks/Action: MD 4/10/95

Med Ops _____

Med Log _____

FHO Your action. actioned 04/10/95 RR.

SO Med _____

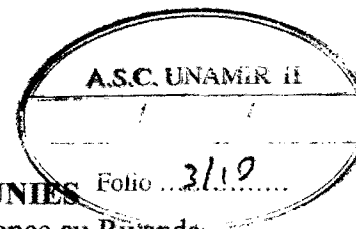
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Please initial and date when action complete then pass quickly

UNITED NATIONS
Assistance Mission for Rwanda



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MINUTE

REF : 4000.1 LOG-50
TO : FORCE HEALTH OFFICER
INFO : MALICOY,95CMMSG LOG OPS
FROM : SO FOOD

SUBJECT : EXPIRATION OF BOTTLED WATER

REFERENCE : A. MALICOY LETTER NR 009/MALICOY DATED 25 SEP 95
NOT COPIED TO YOU.

1. MALICOY have a quantity of 3000 Lt of reserve bottled water in stock with the expiration date of 08-08 -95.
2. You are therefore requested to make arrangements to have this water tested to find its suitability for consumption.

J M CHIMBA
CAPT
SO FOOD

EXT 11117



UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE: 4000.4/27 (FMO)
MED: 997/95

To: Supervisor Water Treatment plant Trafipro

From: HQ UNAMIR MED BR

Date: 02 Oct 95

Subject: WATER ANALYSIS
TRAFIPRO AUG - SEP 95.

1 The results of Bacterial analysis taken at Trafipro between Aug-Sep are as follows

<u>Date</u>	<u>Location</u>	<u>Result</u>
10 Aug 95	Potable water Bladder water plant	no coliform detected
	kitchen water trailer	"
	across from canteen	"
	washroom # 1 weatherhavens	"
22 Aug 95	Jerry cans water point	"
	potable water Bladder	"
	kitchen water Trailer	"

washroom
tent lines

"

03 Sep 95

Potable water
Bladder at
water point
trafipro

no coliform
organisms
detected

jerry cans
water point

"

"

water trailer
weatherhavens

"

"


NORMED
water bladder

"

2 The results indicate that the water treatment plant at trafipro is providing trafipro and outlying units with a good source of potable water.

3 There is no requirement for carrying out chemical analysis on water samples unless chemical contamination is suspected.

4 Random monitoring of chlorine levels in the water indicates that the recommended levels of chlorine are being maintained.


R RANKIN
MWO



UNAMIR-MINUAR

HQ UNAMIR MED BR

FILE: 4000.4/27/FMO

MED : 994/95

To : BROWN AND ROOT

Attn: KEN MORRIS

From: FMO

Date: 29 Sep 1995

C Subject: PREVENTIVE MEDICINE INSPECTION
BROWN AND ROOT KITCHEN

1. The above facility was inspected on Tuesday 26 Sep 95.
2. The general sanitary condition throughout the kitchen was good. To maintain a high standard of sanitation and help prevent food poisoning out breaks, it is recommended that the following health guidelines be followed:
 - a. Eating utensils, dishes and food preparation equipment must be washed and sanitized after each use. The kitchen is using two sinks for this purpose therefore the first sink is for hot soapy water and the second sink is for hot water with a disinfecting solution.
 - C b. Supervisors must stress to their staff the importance of washing their hands after using the washroom.
 - c. The floors, refrigerators, freezers and cooking areas must be maintained in a good sanitary condition.
 - d. Hot foods must stay hot and cold foods cold until consumed.
 - e. Wet and dry garbage must be removed from the kitchen daily and lids must be kept on the garbage cans as much as possible.

3. One problem noted was with the storage tank used for potable water. The tank cover did not fit properly creating the potential of water contamination by dirt and bird droppings.

4. A water sample will be collected at a later date for bacterial analysis.

5. Please feel free to contact me if you would like a follow-up inspection or if you have any preventive Medicine problems in the kitchen.

R Rankin
R RANKIN
MWO
FHO for FMO



UNAMIR MINUAR

HQ UNAMIR MED BR
FILE 4000.4/27 (FMO)
MED 948/95

To: LOG BASE

From: HQ UNAMIR MED BR

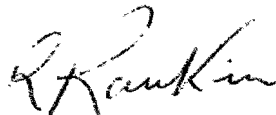
Date: 29 Sep 95

Subject: WATER ANALYSIS BOTTLED DRINKING WATER

1. The results of Bacterial analysis carried out on your Drinking water on 28 September 1995 are as follows.

	<u>Sample</u>	<u>Results</u>	<u>Comments</u>
a	Emirates pure spring water expiry date Aug 95	no coliform organisms detected	potable (safe to drink)
b	Rwenzori pure mineral water expiry date 04 Aug 96	no coliform organisms detected	potable (safe to drink)
c	Glendale spring water	no coliform organisms detected	potable but should be retested because there is no expiry date
d	Jeema pure and natural mineral water	no coliform organisms detected	potable but should be tested monthly because it is past the expiry date
e	Brakefree 5 litre bottled water	overgrowth of bacteria filter turned a dark color	unsafe to drink a second sample will be tested

2 Any questions concerning the above results, please contact me at UNAMIR HQ MED BR
Ext 11115



R RANKIN
MWO
FHO



UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE. 4000.4/27/FMO
MED. 950/95

To: LOG OFFICER INDBATT

From: FMO


Date: 30 Sep 95

Subject: WATER ANALYSIS EMIRATES PURE SPRING WATER
EXPIRARY DATES AUGUST AND SEPTEMBER 1995

Reference:

A. 300/11/UNAMIR/Q dated 12 Sep 95.

- 1 Bacterial analysis was carried out on the subject water on 28 Sep 95.
- 2, No Caliform organisms were detected, therefore the water is classified as potable and is safe to drink.
3. It is recommended that the water be retested on a monthly basis because the water is past the expiry dates.


R RANKIN
MWO
for FMO

UNITED NATIONS
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UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE 775-2-1
MED 945/95

To: ~~REC'D~~

From: FMO

Date: 1 Sep 95

Subject: FORCE MEDICAL OFFICERS LIAISON VISIT

1. The Force Medical Officer will be visiting your Unit on Wednesday 6 September 1995.

2. The purpose of the visit is to liaise with Unit Medical Staff both within Curative and Public Health Fields.

3. Details of the staff visit are as follows.

- a. Arrive Nyunda landing site - 1030 hrs
- b. Staff Visit - 1030 - 1330 hrs.
- c. Depart Nyunda landing site - 1330 hrs.

4. There will be four personnel in the FMO party

5. Point of contact for this visit is MWO Rankin at UNAMIR HQ MED BR, Ext 11115.

R Rankin
R RANKIN
MWO
for FMO



UNAMIR - MINUAR

HQ UNAMIR MED BR
File: 775-2-1
MED: 920/95


TO : NICOY

FROM: FMO

DATE: 24 August 1995

SUBJECT: **FORCE MEDICAL OFFICERS LIAISON VISIT**

1. The Force Medical Officer (FMO) and Force Health Officer (FHO) will be visiting your Unit on Wednesday 30 August 1995.
2. The purpose of the visit is to liaise with Unit Medical Staff both within Curative and Public Health Fields.
3. Details of the staff visit are as follows:
 - a. Arrive Nyunda landing site - 1030 hrs.
 - b. Staff Visit - 1030 - 1330 hrs.
 - c. Depart Nyunda landing site - 1330 hrs.
4. There will be four personnel in the FMO party.
5. Point of contact for this visit is MWO Rankin at UNAMIR HQ MED BR, Ext 11115.


R RANKIN
MWO
for FMO

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: 775-2-1
~~538-3-1~~

To: FMO	Remarks/Action: <u>21/8 → Maj. Kenson</u>
Med Ops	<u>MA 21/8 → Clerk for typing</u>
Med Log	
FHO	<u>RR 23/08</u>
SO Med	<u>Off 22/8</u>

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Please initial and date when action complete then pass quickly

UNITED NATIONS

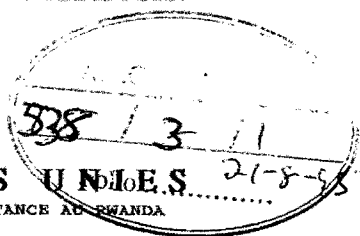
ASSISTANCE MISSION FOR RWANDA



NATIONS UNIES

MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR



084/A

19 Aug 95

From : INDBATT

To : FMO ✓

Info : SO FOOD

Subject :- MEDICAL CHECK OF ESKO FOOD HANDLERS

1. Reference HQ UNAMIR Medical Branch letter No 775-2-1 Med 883/95 dt 10 Aug 95.

2. The INDBATT RAP does not have facilities for carrying out the complete medical examination of food handlers as per the UN norms as neither the x-ray nor the laboratory facilities are available.

3. It is requested that this task may be given to a set up where these facilities are available.

(Sadanandam K)
Lt Col
CO INDBATT



UNITED NATIONS

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UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE ~~58-1~~ 75-2-1
MED 917/95

*By Hw
27/8/95*

To: SO FOOD


Info: CO INDBATT
NORMED

From: FMO

Date: 22 AUG 95

Subject: MEDICAL CHECK OF ESKO FOOD HANDLERS

1. Reference CO Indbatt letter 084/A dated 19 Aug 95.
2. Medical examination of food handlers is to be carried out by NORMED out-patient facility. These will be booked by appointment.
3. Contact is Warrent Officer Brown.


M FENSOM
Major
FMO



UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE 775-2-1
MED 919/95

To: 95 CMSG MED BR
NORMED KIGALI
GHANCOY
MALICOY
MALAWICOY
NICOY

From: FMO

Date: 23 Aug 95

Subject: UNAMIR II MEDICAL OFFICERS CONFERENCE

1. The subject conference will be held at Trafipro Kigali on 5 September 1995
2. The conference will start at 1030 hrs and finish at approximately 1545 hrs
3. A copy of the Agenda is enclosed.
4. A list of personnel attending the conference including their UN identification number must be forwarded to UNAMIR HQ MED BR attention FHO as soon as possible. The FHO must be notified of those requiring air transport.
5. Point of contact is MWO Rankin at UNAMIR HQ MED BR ext 1115

R Rankin MWO
R RANKIN
MWO
for FMO

UNAMIR II MEDICAL OFFICERS CONFERENCE
5 SEPTEMBER 1995

NORMED - KIGALI

AGENDA

1030 - 1115

*OPENING REMARKS - (NORMED STAFF)	-	FMO
SECTOR BRIEFS	-	RMOs
MILOB/RMO RELATIONS INTRO	-	FMO
DISPOSAL/USAGE OF PESTICIDES	-	FHO

1115 - 1130

*COFFEE BREAK	-	NORMED
---------------	---	--------

1130 - 1230

CASEVAC PROCEDURE/EXERCISE BRIEF	-	CAPT SCHELL
HUMANITARIAN SUPPLY UPDATE	-	G4 MED
HLTH INFORMATION - PRESENTATION OF HOSPITAL DATA	-	G4 MED

1230 - 1330

*LUNCH	-	SMO NORMED
--------	---	------------

1330 - 1530

*NORMED TOUR	-	SMO NORMED
*CASE PRESENTATIONS - NORMED	-	NORMED STAFF
*CLOSING REMARKS	-	FMO

1530 - 1545

*DISPERSAL	TPT TO AIRPORT REQD
------------	---------------------

UNAMIR II MEDICAL OFFICERS CONFERENCE
5 SEPTEMBER 1995

NORMED - KIGALI

AGENDA

1030 - 1115

*OPENING REMARKS - (NORMED STAFF)	-	FMO
SECTOR BRIEFS	-	RMOs
MILOB/RMO RELATIONS INTRO	-	FMO
DISPOSAL/USAGE OF PESTICIDES	-	FHO

1115 - 1130

*COFFEE BREAK	-	NORMED
---------------	---	--------

1130 - 1230

CASEVAC PROCEDURE/EXERCISE BRIEF	-	CAPT SCHELL
HUMANITARIAN SUPPLY UPDATE	-	G4 MED
HLTH INFORMATION - PRESENTATION OF HOSPITAL DATA	-	G4 MED

1230 - 1330

*LUNCH	-	SMO NORMED
--------	---	------------

1330 - 1530

*NORMED TOUR	-	SMO NORMED
*CASE PRESENTATIONS - NORMED	-	NORMED STAFF
*CLOSING REMARKS	-	FMO

1530 - 1545

*DISPERSAL	TPT TO AIRPORT REQD
------------	---------------------

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: _____

To: FMO	Remarks/Action: _____
Med Ops	_____
Med Log	_____
FHO	TASK GIVEN 17/7.
SO Log	_____
_____	_____

Please initial and date when action complete then pass quickly

.....



UNAMIR

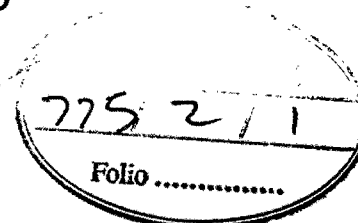
UNITED NATIONS ASSISTANCE MISSION FOR RWANDA



300/11/UNAMIR/Q


15 Jul 95

From : INDBATT
To : Force Health Officer ✓
UNAMIR HQ
Info : SO Food
: 95 FLSC
: CCLOGO



Subject: BOTTLED WATER

1. Indbatt has 1743 litres of bottled water which will expire in Aug 95.
2. Please intimate, when Indbatt can send samples of the bottled water to your office for chemical analysis.
3. Photostat copy of SO Food FAX No Food 163/95 dated 14 Jul 95 is enclosed for ready reference.
4. Best regards.


(Debashish Pal)
Captain
Logistics Officer
for CO INDBATT

16:27

11278

UN HQ ORDERLY RM

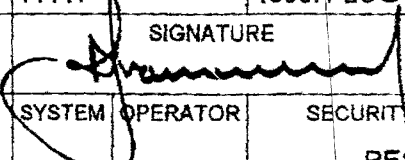
001

HQ UNAMIR II
FAX FORMSECURITY CLASSIFICATION
RESTRICTED

LINE 3			GR
LINE 4			MESSAGE INSTRUCTIONS
LINE 5			
PRECEDENCE - ACTION PRIORITY	PRECEDENCE - INFO ROUTINE	DATE - TIME GROUP 141530B JUL 95	SIC/ORIG NO FOOD 163 /95
ROUTING INDICATORS	FROM: HQ UNAMIR II (SO FOOD)		
INTERNAL:	TO: INDBATT 95 FLGS INFO: CCLOGO		

SUBJECT : INDBATT BOTTLED WATER**REFERENCE: A. INDBATT 300/11/UNAMIR/Q DATED 12 JUL 95**

- REFERENCE A IDENTIFIED THAT 1743 LITRES OF BOTTLED WATER CURRENTLY HELD BY INDBATT WILL EXPIRE IN AUG 95.
- THE FORCE HEALTH OFFICER (FHO) HAS BEEN ADVISED AND WILL ARRANGE FOR SAMPLES OF THE BOTTLED WATER TO BE TAKEN FOR CHEMICAL ANALYSIS.
- SHOULD THE ANALYSIS BE FAVOURABLE, THE SHELF LIFE OF THE BOTTLED WATER MAY BE EXTENDED FOR ANOTHER SIX MONTHS.
- SHOULD THE ANALYSIS BE UNFAVOURABLE, INDBATT WILL BE AUTHOURISED TO DESTROY THE WATER AND 95 FLGS WILL REPLENISH STOCKS.
- THE FHO WILL LIAISE DIRECTLY WITH INDBATT FOR THE ANALYSIS.
- REGARDS

PAGE NO 1		DRAFTER'S NAME AND TITLE CAPT M.C.BRAMWELL				PHONE 11117		REF FILE NO 4000.1 LOG-50	
NO OF PAGES 1		RELEASER'S NAME AND TITLE AS ABOVE		BRANCH/UNIT LOG BRANCH		SIGNATURE 		DATE 14 JUL 95	
FOR OPS USE	R	DATE	TIME	SYSTEM	OPERATOR	D	DATE	TIME	SYSTEM OPERATOR
								SECURITY CLASSIFICATION RESTRICTED	

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: 752-21

To: FMO Remarks/Action: J 11/8

~~Med Ops~~

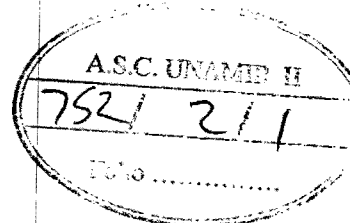
✓ Med Log

✓ FHO

SO Med

Read the conclusion & keep!
Necessary action? As briefed in
Conf. NFA.

Please initial and date when action complete then pass quickly



TO : HAC
FROM : TM 1 LDR
DATE : 10 AUGUST 1995
SUBJECT : REPORT ON HAC SPECIAL PATROL
TO KANOMBE WATER PROJECT

GENERAL

1. A special HAC Patrol Team comprising the under-mentioned Officers and two specialists from the MINITRAP undertook a patrol to Karengé Commune (Sector 1) to ascertain facts relating to water problem in Kanombe Commune.

- a. Major Debali Ahmed - Team Leader
- b. Capt Tlili Ali - FEO Rep
- c. Two representatives from MINITRAP.

TRIP TO KARENGE COMMUNE

2. The team left Kigali at 1000 hrs and arrived at the main pumping station in Karengé Commune after an hour's drive.

3. The team was met on arrival by the Responsible who is running the station of water which supplies 4 communes namely:

- a. Kanombe
- b. Karengé
- c. Masaka
- d. Kicukiro

4. Actually, there is a lack of portable water in these communes. The water shortage in these communes is due to the wear and tear of water pipes which have been laid in 1974. It is 35Km long.

5. The team asked for an estimate for repairs but was not immediately available, however, the team was promised that it would be submitted the next day.

6. The estimate for the project was submitted to the team the following day as promised. A copy of the estimate is attached as Annex "A".

CONCLUSION

7. The water shortage in the four communes is the result of the breakdown of the Kanombe water project.



AHMED DEBALLI
Major
Tm 1 Ldr

Information:

Internal:

FC
DFC
COS
DCOS OPS
DCOS SP
FMO

External:

IOC
UNREO

Etablissement Public de Production,
de Transport et Distribution
d'Electricité, d'Eau et de Gaz

E L E C T R O G A Z

Remplacement de la conduite principale d'eau :
Karengé - Masaka - Kanombe - Kicukiro

Plan : - plan A.I.D.R n° RW - 1012 - 74 : plan d'ensemble
- plan A.I.D.R n° RW - 1019 - 74 : profil en long
de la conduite principale Karengé - Kicukiro

Dossier de consultation

Juillet 1995

Remplacement de la conduite principale
Karengé - Kanombe - Kicukiro

I) Exposé des motifs :

Dans le but d'améliorer l'alimentation en eau potable des zones de Kanombe, Kicukiro et Gahanga, il est proposé de remplacer la conduite principale qui alimente ces quartiers. En fait, l'adduction Icyanya global avait été réalisée par l'A.I.D.R, Association internationale de Développement Rural dans les années 1974. Cette conduite principale et bien d'autres conduites secondaires accusent des fuites régulièrement de telle sorte que l'eau n'arrive presque pas au bout des réseaux. La conduite proposée au remplacement a une longueur totale d'environ 35 Km et part du Mont Bihembe (Karengé) jusqu'au dispensaire de Gahanga à Kicukiro en passant par l'Ecole adventiste de Nyakaliro, la mission Masaka, Camp Militaire Kanombe, Aéroport Kanombe, Ecole technique (ETO) Kicukiro.

II) Le Système proposée :

La conduite existante était composée principalement par des tuyaux en acier ECH 133 * 4 et qui répond à des anciennes normes. Ce genre de tuyaux n'existent plus sur le marché mondial et n'ont plus de pièces de raccords. Il a été constaté qu'ils ont été corrodés et accusent des fuites partout. Il est proposé de les remplacer par des conduites P.V.C avec des pressions nominales différentes et partiellement par des conduites en fonte dans les endroits marécageux.

Si l'on se réfère aux plans A.I.D.R n°

- Rw - 1012 - 74 : plan d'Ensemble
- Rw - 1019 - 74 : conduite principale : Bihembe - Masaka -
Kanombe - Kicukiro - Gahanga;

Le remplacement de ces conduites est proposé comme suit :

n° tronçon	point de stationnement	longueur du tronçon (ml)	type de conduite proposée
1	8 à 28	6.240	PVC Ø 160 PN 16
2	28 à 82	5.604	PVC Ø 125 PN 25
3	82 à 88	a) 5.682 b) 1.494	Fonte DN 125 PVC Ø 125 PN 25
4	88 à 94	3.216	PVC Ø 125 PN 10
5	94 à 100	6.396	PVC Ø 110 PN 10
6	100 à 102	4.830	PVC Ø 90 PN 10
7	102 à 107	1.380	PVC Ø 75 PN 10
TOTAL		34.842	

III) Consistance des travaux :

- Fourniture des tuyaux
- Fourniture des pièces de raccords
- Terrassement
- Pose des tuyaux et des raccords
- Génie civil et ouvrages d'art

III) Récapitulatif des coûts

- Tronçon n° 1	= 33.400.224 FRW
- Tronçon n° 2	= 27.692.025 FRW
- Tronçon n° 3 (a)	= 60.680.209 FRW
- Tronçon n° 3 (b)	= 7.382.563 FRW
- Tronçon n° 4	= 12.967.581 FRW
- Tronçon n° 5	= 26.144.289 FRW
- Tronçon n° 6	= 17.299.128 FRW
- Tronçon n° 7	= 4.418.898 FRW
Total Général	= 189.984.917 FRW

IV. Estimation des coûts

1) Tronçon n° 1

Désignation	Quantité	P.U en FRW	P.T en FRW
- Fourniture des tuyaux PVC Ø 160 PN 16 y compris joints ou graisse et autres sujétions	1.040 tuyaux	21.120	21.964.800
- Fourniture de raccords et pièces divers (15 % de la fourniture)	-	-	3.294.720
- Terrassement	6.240 ml	583	3.637.920
- Pose des tuyaux et des raccords	6.240 ml	656	4.093.440
- Génie Civil et ouvrages d'art (regards, chambres de vannes etc .. 10% de la pose)	-	-	409.344
S/Total I			33.400.224

2) Tronçon n° 2

Désignation	Quantité	P.U en FRW	P.T en FRW
- Fourniture des tuyaux PVC Ø 125 PN 25 y compris joints ou graisse et autres sujétions	934 tuyaux	18.975	17.722.650
- Fourniture de raccords et pièces divers (15 % de la fourniture)	-	-	2.658.397
- Terrassement	5.604 ml	583	3.267.132
- Pose des tuyaux et des raccords	5.604 ml	656	3.676.224
- Génie civil et ouvrages d'art (regards, chambres de vannés etc .. 10% de la pose)	-		367.622
S/total II			27.692.025

3) Tronçon n° 3 (a)

Désignation	Quantité	P.U en FRW	P.T en FRW
- Fourniture des tuyaux en FD DN 125 à joints mécaniques y compris joints, graisse et autres sujétions	947 tuyaux	47.655	45.129.285
- Fourniture de raccords et pièces divers (15 % de la fourniture)	-	-	6.769.393
- Terrassement	5.682 ml	583	4.971.750
- Pose des tuyaux et des raccords	5.682 ml	875	497.175
- Génie civil et ouvrages d'art (regards, chambres de vannes etc .. 10% de la pose)	-	-	
S/total III			60.680.209

4) Tronçon n° 3 (b)

Désignation	Quantité	P.U en FRW	P.T en FRW
- Fourniture des tuyaux PVC Ø 125 PN 25 y compris joints ou graisse et autres sujétions	249 tuyaux	18.975	4.724.775
- Fourniture de raccords et pièces divers (15 % de la fourniture)	-	-	708.716
- Terrassement	1.494 ml	583	871.002
- Pose des tuyaux et des raccords	1.494 ml	656	980.064
- Génie civil et ouvrages d'art (regards, chambres de vannes etc .. 10% de la pose)	-	-	98.006
S/total			7.382.563

5) Tronçon n° 4

Désignation	Quantité	P.U en FRW	P.T en FRW
- Fourniture des tuyaux PVC Ø 125 PN 10 y compris joints ou graisse et autres sujétions	536 tuyaux	14.231	7.627.816
- Fourniture de raccords et pièces divers (15 % de la fourniture)	-	-	1.144.172
- Terrassement	3.216 ml	583	1.874.928
- Pose des tuyaux et des raccords	3.216 ml	656	2.109.696
- Génie Civil et ouvrages d'art (regards, chambres de vannes etc .. 10% de la pose)	-	-	210.969
S/total V.			12.967.581

6) Tronçon n° 5

Désignation	Quantité	P.T en FRW	P.T en FRW
- Fourniture des tuyaux PVC Ø 110 PN 10 y compris joints ou graisse et autres sujétions	1.066 tuyau	14.520	15.478.320
- Fourniture de raccords et pièces divers (15 % de la fourniture)	-	-	2.321.748
- Terrassement	6.396 ml	583	3.728.868
- Pose des tuyaux et des raccords	6.396 ml	656	4.195.776
- Génie Civil et ouvrages d'art (regards, chambres de vannes etc .. 10% de la pose)	-	-	419.577
S/total VI			26.144.289

7) Tronçon n° 6

Désignation	Quantité	P.U en FRW	P.T en FRW
- Fourniture des tuyaux PVC Ø 90 PN 10 y compris joints ou graisse et autres sujétions	805 tuyaux	11.880	9.563.400
- Fourniture de raccords et pièces divers (15 % de la fourniture)	-	-	1.434.510
- Terrassement	4.830 ml	583	2.815.890
- Pose des tuyaux et des raccords	4.830 ml	656	3.168.480
- Génie Civil et ouvrages d'art (regards, chambres de vannes etc .. 10% de la pose)	-	-	316.848
S/total VII			17.299.128

8) Tronçon n° 7

Désignation	Quantité	P.U en FRW	P.T en FRW
- Fourniture des tuyaux PVC Ø 75 PN 10 y compris joints ou graisse et autres sujétions	230 tuyaux	9.900	2.277.000
- Fourniture de raccords et pièces divers (15 % de la fourniture)	-	-	341.550
- Terrassement	1.380 ml	583	804.540
- Pose des tuyaux et des raccords	1.380 ml	656	905.280
- Génie Civil et ouvrages d'art (regards, chambres de vannes etc .. 10% de la pose)	-	-	90.528
S/total VIII			4.418.898

ASSISTANCE MISSION FOR RWANDA



NATIONS UNIES

MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 775-2-1

MED 902/95

To: MALICOY

From: FMO

Info: **AUSMED**

Date: 16 Aug 95

Subject: PESTICIDE TRAINING

1. AUSMED will conduct refresher pesticide training for your Preventive Medicine personnel at your Coy location on 17 Aug 95.
2. Details of the tasking is as follows:
 - a. Depart Kigali - 0800 hr;
 - b. Arrive Gikongoro - 0840 hr;
 - c. Commence training - 0850 hr;
 - d. Depart Gikongoro - 1100 hr; and
 - e. Arrive Kigali - 1130 hr.
3. Regret late notification of this support task to your unit.
4. Point of contact at MED BR HQ UNAMIR is Capt John Nerney on ext 11115.

ASSISTANCE MISSION FOR RWANDA



NATIONS UNIES

MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

→ FILE: 775-2-1
MED 900/95

To: NICOY

From: FMO.

Info: **AUSMED**

Date: 16 Aug 95

Subject: PESTICIDE TRAINING

1. AUSMED will conduct refresher pesticide training for your Preventive Medicine personnel at your Coy location on 17 Aug 95.
2. Details of the tasking is as follows:
 - a. Depart Kigali - 1300 hr;
 - b. Arrive Nyunda - 1330 hr;
 - c. Commence training - 1315 hr;
 - d. Depart Nyunda - 1605; and
 - e. Arrive Kigali - 1635 hr.
3. Regret late notification of this support task to your unit.
4. Point of contact at MED BR HQ UNAMIR is Capt John Nerney on ext 11115.

UNITED NATIONS

ASSISTANCE MISSION FOR RWANDA



NATIONS UNIES

MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 775-2-1

MED 901/95

To: MALAWICOY

From: FMO

Info: AUSMED

Date: 16 Aug 95

Subject: PESTICIDE TRAINING

1. AUSMED will conduct refresher pesticide training for your Preventive Medicine personnel at your Coy location on 17 Aug 95.
2. Details of the tasking is as follows:
 - a. Depart Kigali - 0730 hr;
 - b. Arrive Shagasha - 0820 hr;
 - c. Commence training - 0830 hr;
 - d. Depart Shagasha - 1030 hr; and
 - e. Arrive Kigali - 1130 hr.
3. Regret late notification of this support task to your unit.
4. Point of contact at MED BR HQ UNAMIR is Capt John Nerney on ext 11115.

Australian Medical Support Force



MINUTE

436/1/1
EHS 183/95

FMO

Camp Commandant

For Information:

FHO

HEALTH INSPECTIONS GHANBATT TRANSIT CAMP - KIGALI

Reference:

A. Discussion WO2 Attard/CAPT Nerney of 10 Aug 95

1. As requested at the above reference a health inspection was conducted at the Ghanbatt Transit Camp by WO2 G. Attard, OIC EHS, accompanied by LT P. Ackatia Armah on 11 Aug 95.

2. The general camp consists of 10 self contained accommodation buildings, a medical facility, a recreation area, and two small kitchens.

General

3. The standard of hygiene throughout the camp area was high.

Kitchen Areas

4. Both The Officers Mess and Area Kitchen are maintained to a satisfactory level of hygiene.

775-2-1

12/8.

Waste Disposal

5. All waste is disposed of in a pit outside the boundary area adjacent the kitchen by burning. Flies were plentiful in this area.

Conclusion

6. The general standard of hygiene in the area is high, however the waste disposal pit is a source for fly breeding and the attraction of vermin into the area.

Recommendations

7. The following recommendations are made:
- a. **Waste Disposal.** A waste disposal contractor be employed to remove all waste from the area. This will remove breeding areas for disease carrying insects and rodents. Contract for waste disposal can be discussed by contacting Boydd on 11138 at UNAMIR HQ.
 - b. **Insect Control.** EHS is to provide some basic training in pesticide dispersal to control insect pests on Wednesday 15 Aug at the Transit Camp to unit personnel.



G. R. ATTARD
WO2
OIC EHS

11 Aug 95

Australian Medical Support Force



MINUTE

EHS 182/95

LOG OFFICER, INDBATT

For Information:

→ FHO
OIC EHS

WATER ANALYSIS - EMIRATES, EXPIRY SEPT. 95

Reference:

A. 300/11/UNAMIR/Q, dated 9AUG95

1. In accordance with reference A, samples of Emirates bottled water (filling date Sept 94, expiry date Sept 95) were collected from Indbatt for analysis by EHS Ausmed.

2. The results are as follows (units are mg/l unless stated):

	Emirates bottled water	Max. allowable limit
pH	7.5	6.5-9.2
Colour(PtCo)	NT	15
Total dissolved solids	NT	1500
Nitrates	3.6	45
Sulphates	35	400
Total hardness	150	500
Total coliforms/100ml	0	1

3. The samples tested were within the allowable limits for all tests performed. The water is potable.

4. Bottled water can confidently be used well past it's expiry date as long as the seals and packaging are intact. Retesting on a two monthly basis can be performed to confirm this (the incoming FHO will be able to conduct bacterial analysis as EHS will not be testing water after 16Aug 95).

Michael Kent

M.I. KENT
CPL
HLTH ASST
EHS

// Aug 95

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: _____

To: FMO

Remarks/Action: _____

Med Ops

Med Log

☒ FHO

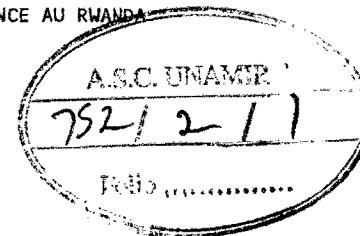
SO Med

Has this advice been sent to AS?

YES

Please initial and date when action complete then pass quickly

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OUTGOING FAX NO 5631

PAGE 1 OF 2

MIR NO 2839

MISC NO _____

TO: MR. HOCINE MEDILI DIRECTOR/FALD,DPKO	FROM: C. OUZIEL CAO, UNAMIR Kigali, Rwanda
ATTN: MOTTA/ADAMS/O'GRADY	DATE: 7 AUGUST 1995
INFO:	INT.DIST. FMO
FAX NO.: 212-963-2116	PHONE : 212-963-3582 FAX NO: 212-963-3090
DRAFTED BY: W. Clive, CISS	If pages are not received in good order pls. contact above numbers.
RELEASED BY: W. Clive, CISS	SECTION:
SUBJECT: ROWPU - UNAMIR	

REFERENCE YOUR FAX MIR NO. 301 AND 304 BOTH DATED 4 AUGUST 1995.

WE TRANSMIT HERewith A REPORT FROM FMO DATED 7 AUGUST REGARDING
WATER CAPACITY WITHIN THE MISSION AREA FOR YOUR INFO. REFERENCE
PARA 3 AND 4 OF YOUR MIR NO. 304, PLEASE BE ADVISED THAT UNAMIR NO
LONGER REQUIRES CPC 7.5 AUSTRALIAN WATER PURIFICATION UNIT.

BEST REGARDS.



UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 775-2-1

MED 865/95

To: DCOS SP
CISS

From: FMO

Info: FC

Date: 07 Aug 95

Subject: WATER CAPACITY WITHIN THE MISSION AREA

1. This memo outlines the current status as to the ability to produce potable water, as well as holding capacities, at both water points within Kigali..
2. The following outlines the capacities of each of the water treatment units within the mission area:
 - a. S/S Kigali - 350g/min (21,000g/hr) operational;
 - b. Multi-Media Filter - 37g/min (2,200g/hr) operational;
 - c. Reverse Osmosis - 20g/min (1,200g/hr) awaiting replacement parts;
 - d. Indian Water Plant - 20g/min (1,200g/hr) currently reserve plant; and
 - e. Aust Permutit - 25g/min (1,500g/hr) scheduled to come off line 7 Aug 95.
3. Current water production is by the Australian Unit only, at 1500g/hr.
4. Water analysis dated 7 Aug 95 confirms that both the S/S Kigali and Multi-Media water treatment plants are producing potable water. With the commissioning of both these plants water production would be as listed:
 - a. S/S Kigali - 50,000g/day due to restrictions on the availability of raw water, this production can be increased if raw water tankers were to be used as well as piped water; and
 - b. Multi-Media Filter - 37g/min (2200g/hr) this plant produces 700 g/hr more water than the Australian plant which has been the only operational Unit in the mission area for the previous two months. Raw water is trucked to this site from the city treatment plant.
5. Storage capacity of raw and treated water at both locations is as follows:
 - a. S/S Kigali - raw (50,000g) treated (75,000g);
6. Traffipro - raw (25,000g) treated (60,000g).
7. To ensure guaranteed water supply within the mission, with adequate reserve capacity, the replacement parts for the Reverse Osmosis plant are still required.



UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE: 775-2-1
MED 883/95

To: INDBATT

From: FMO

Info: SO FOOD

Date: 10 Aug 95

Subject: MEDICAL CHECK OF ESKO FOOD HANDLERS

1. Find attached a list of names of those personnel currently employed by the new food ration contractor who handle food consumed by UNAMIR.
2. It is requested that the Indian Medical Platoon advise of a suitable date when these personnel can be subjected to health checks .
3. After discussion with the food contractor, it is preferred that the health checks be conducted on a Monday as the workers are engaged heavily in the receipt, preparation and issue of rations to UNAMIR on other days of the week.
4. Point of contact at MED BR UNAMIR HQ is Captain John Nerney on ext 11115.

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: _____

To: FMO

Remarks/Action: _____

~~Med Ops~~

~~Med Log~~

FHO

~~SO Med~~

8/10

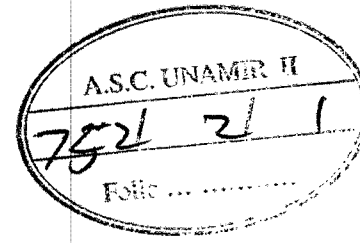
ph pass tanks to INDRATT
0/8/10

Please initial and date when action complete then pass quickly

.....



MINUTE



REF : 4000.1 LOG-50

TO : FMO

FROM : SO FOOD

SUBJECT : HEALTH INSPECTION OF ESKO FOOD HANDLERS

1. Find attached a list of names of those personnel currently employed by the new food ration contractor who handle food consumed by UNAMIR.
2. It is requested that Medical Branch advise of a suitable date when these personnel can be subjected to health checks by either AUSMED or the replacement Norwegian medical team.
3. After discussions with the food contractor, it is preferred that the health checks be conducted on a Monday as the workers are engaged heavily in the receipt, preparation and issue of rations to UNAMIR on other days of the week.
4. Regards.

M.C. BRAMWELL
CAPT
SO FOOD
Ext 11117

8 Aug 95

ES-KO KIGALI

LIST OF PERSONNEL HANDLING FOOD

FOR UNAMIR
(ON 8th August '95)

1	BAZIGA EMMANUAL
2	KAMEGERI AMURAI
3	SANO J CLAUDE
4	SEBINAGANA PIERRE CLOWER
5	MUTIMURA JOSEPH
6	NKORERIMANA DANIEL
7	NIYONSHUTI ALEXIS
8	NIYOKWIZERWA ERNEST
9	TWAGIRIMANA LAURENT
10	UZABAKIRIHO GIERRE
11	HAVUGIMANA EZECHIAS
12	RUSEKA J. M. VIONNEY
13	NIZEYIMANA FILGENCE
14	MUGESERA WILLIAM
15	BIZIMUNGU GODEFRAID

FOR ES-KO INTERNATIONAL INC.

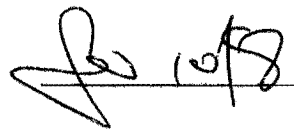
MARIO GAVAGNIN



Man

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: _____

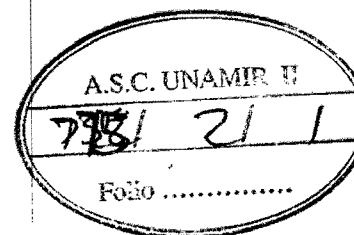
To: FMO	Remarks/Action: _____
Med Ops	_____
Med Log	_____
FHO	 _____
SO Med	_____
_____	_____

Please initial and date when action complete then pass quickly

Australian Medical Support Force



MINUTE



/80/95 EHS

MR.M.STEWART

For information:

FHO

OIC EHS

WATER ANALYSIS OF THE NEW WATER POINT

(S/S REGAL) *[Signature]*

1. As requested a complete water analysis of samples taken from the new water purification plant were conducted by EHS on the 5 Aug 95. CPL.G.REEVES conducted both chemical and bacteriological analysis on the samples.

2. The results are as follows(results in milligrams per litre unless stated):

		ALLOWABLE LIMIT
pH	5.74	6.5 - 9.2
Nitrates	12.9	45
Sulphates	60	400
Total Hardness	177	500
Chlorine Free	0.02 ppm	
Chlorine Total	0.11 ppm	

3. The results of the bacteriological analysis are as follows:

Total Coliforms NIL
Faecal Coliforms NIL

4. As the above results indicate there was a high amount of sulphates which could cause a laxative effect in some people, the pH was low.

5. The chlorine levels both total and free were low these should be raised immediately so to avoid the chance of bacterial contamination.

6. The water is potable however chlorine levels should be raised immediately.

Reed
G.D.REEVES
CPL
HLTH ASST
EHS

7 AUG 95

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No. _____

To: FMO Remarks/Action: _____

Med Ops _____

Med Log _____

FHO _____

SO Med _____

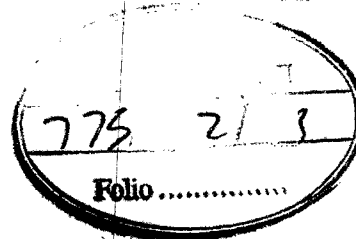
Δ 7/8
JLB 7/8
W 7/8
W 8/8
AW 8/8

Please initial and date when action complete then pass quickly

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UNAMIR-MINUAR



4000.1/LOG-51

FROM : CLOGO

TO : 95 CMSG

INFORMATION: DCOS SP

DATE : 4 AUG 95

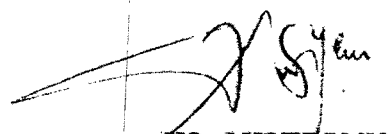
SUBJECT : WATER ANALYSIS INDIAN WATER TREATMENT PLANT

Reference :

A. MED 894/95 dated 3 Aug 95.

1. Reference A is the result of series of tests conducted on water produced from Indian Water Treatment Plant. The tests conducted by AUSMED and SGS Laboratories have confirmed that the water produced by the Indian Water Treatment Plant Number 2 is potable and safe for human consumption.

2. Therefore, the water produced from above mentioned plant is now authorized to be issued to the contingents and individuals for consumption. Photocopy of Reference A is enclosed as Enclosure 1 for ease of reference.


VO AWOFISAYO
Lt Col
CLOGO

Enclosure:

1. Photocopy of Reference A.



UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE. 775-2-1
MED 849/95

To: DCOS SP
CISS

From: FMO

Info: FC

Date: 03 Aug 95

Subject: WATER ANALYSIS - INDIAN WATER TREATMENT PLANT

1 Water samples were taken from the Indian Water Purification Plant to firstly ascertain potability of the treated water and secondly to identify the source of taste and odour problems.

2. The following table summarises both the AUSMED and SGS Laboratory analysis:

Serial	Parameter	Result	Desirable	Allowable
1	Colour(PtCo)	2	5	15
2	Ammonia	0.04	0.1	0.5
3	Lead	Not Detected	Nil	0.05
4	Iron	0.13ppm	0.1	0.3
5	Copper	Not Detected	0.05	1
6	Magnesium	8.5ppm	50	150
7	Arsenic	Not Detected	Nil	0.05
8	Cadmium	Not Detected	Nil	0.01
9	Cyanides	Not Detected	Nil	0.01
10	Nitrates	6.9mg/l	Nil	45
11	Chloride	29.1mg/l	200	600
12	Sulphates	28mg/l	Nil	400
13	Sodium	10.25ppm	200	250
14	Total Hardness	57	300	500
15	Total Dissolved Solids	109.2	500	1500
16	pH	6.95	7.0-8.5	6.5-9.2
17	Alkalinity	33mg/l		
18	Total Coliforms (per 100ml)	0	Nil	

3. Following extensive back-washing of the filters and running of the plant for successive days the taste and odour problems subsided.
4. Tests conducted by AUSMED and by SGS Laboratories verify that the water produced by the Indian Water Treatment Plant No2 is potable and safe for human consumption.
5. Issue of water produced by the Indian Water Treatment Plant is authorised on receipt of this report.
6. The results summarised are from verbal information received, hard copy of results are expected in Kigali am 4 Aug 95.

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: _____

To: FMO	Remarks/Action: _____
Med Ops	_____
Med Log	_____
FHO	_____
SO Med	_____
_____	_____

JB 10/8

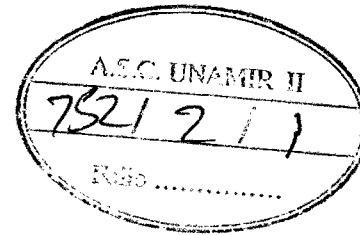
Please initial and date when action complete then pass quickly

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Australian Medical Support Force



MINUTE



/8/95 EHS

MR.M.STEWART

For information:

FHO
OIC EHS

WATER ANALYSIS OF THE NEW WATER PURIFICATION UNIT

(AOLPSHEK SKED
TRAFFERD)

1. As requested a complete water analysis of samples taken from the new water purification unit located the Brown and Root water purification plant were conducted by EHS on the 6 Aug 95. CPL.G.REEVES conducted the chemical analysis and LCPL.J.SELLERS conducted the bacteriological analysis on the samples.

2. The results are as follows(results in milligrams per litre unless stated):

		ALLOWABLE LIMIT
pH	6.85	6.5 - 9.2
Nitrates	8.4	45
Sulphates	40	400
Total Hardness	57	500
Chlorine Free	2.2 ppm	
Chlorine Total	2.2 ppm	

3. The results of the bacteriological analysis are as follows:

Total Coliforms NIL
Faecal Coliforms NIL

4. As the above results indicate all tests were within the allowable limits.

5. The chlorine levels both total and free were suitable.

6. The water is potable and this water purification unit is ready for use.


G.D.REEVES
CPL
HLTH ASST
EHS

7 AUG 95



UNAMIR - MINUAR

→ HQ UNAMIR MED BR
FILE: 775-2-1
MED 846/95

To: AUSMED
From: FMO
Info: MILOBS HQ
MILOBS SECTOR 2
GHANBATT

Date: 03 Aug 95

Subject: MEDICAL AND HEALTH ASSESSMENT - SUSPECTED CHOLERA AND
MENINGITIS OUTBREAK SECTOR 2

1. Following reports of a cholera/meningitis outbreak in Sector 2 a medical/health recon is to be conducted to verify validity of the report.
2. The following outlines the details of the tasking:
 - a. Team to consist of MO, HLTH INSP and Security Elm (max 5 dependant on stores);
 - b. Assessment of outbreak within the four communes as reported by MILOBS;
 - c. Conduct of vaccination of immediate contacts if required;
 - d. Depart Pres Hanger 1130hr 3 AUG 95;
 - e. Arrive Kibungo 1150hr (meet by MILOB and Elm from GHANBATT);
 - f. Road move to Commune areas;
 - g. Depart Kibungo 1700hr (earlier if task completed).
3. Point of contact at MED BR UNAMIR HQ is Captain John Nerney on ext 11115.



UNAMIR MINUAR

HQ UNAMIR MED BR
FILE. 775-2-1
MED 849/95

To: DCOS SP
CISS

From: FMO

Info: FC

Date: 03 Aug 95

Subject: WATER ANALYSIS - INDIAN WATER TREATMENT PLANT

1. Water samples were taken from the Indian Water Purification Plant to firstly ascertain potability of the treated water and secondly to identify the source of taste and odour problems.
2. The following table summarises both the AUSMED and SGS Laboratory analysis

Serial	Parameter	Result	Desirable	Allowable
1	Colour(PtCo)	2	5	15
2	Ammonia	0.04	0.1	0.5
3	Lead	Not Detected	Nil	0.05
4	Iron	0.13ppm	0.1	0.3
5	Copper	Not Detected	0.05	1
6	Magnesium	8.5ppm	50	150
7	Arsenic	Not Detected	Nil	0.05
8	Cadmium	Not Detected	Nil	0.01
9	Cyanides	Not Detected	Nil	0.01
10	Nitrates	6.9mg/l	Nil	45
11	Chloride	29.1mg/l	200	600
12	Sulphates	28mg/l	Nil	400
13	Sodium	10.25ppm	200	250
14	Total Hardness	57	300	500
15	Total Dissolved Solids	109.2	500	1500
16	pH	6.95	7.0-8.5	6.5-9.2
17	Alkalinity	33mg/l		
18	Total Coliforms (per 100ml)	0	Nil	Nil

3. Following extensive back-washing of the filters and running of the plant for successive days the taste and odour problems subsided.
4. Tests conducted by AUSMED and by SGS Laboratories verify that the water produced by the Indian Water Treatment Plant No2 is potable and safe for human consumption.
5. Issue of water produced by the Indian Water Treatment Plant is authorised on receipt of this report.
6. The results summarised are from verbal information received, hard copy of results are expected in Kigali on 4 Aug 95.

Cover Sheet Classification
UNCLAS
Enclosure Classification

FACSIMILE COVER SHEET

MED 830/95

Page 1 of 2 pages

File Number: [REDACTED]	Senders Name:
Precedence: PRIORITY	DTG Sent: 01 August 1995
Facsimile Destination	Facsimile Originator
Maj Ron Emby OP CHAMELEON Reef Hotel (Rm 220) MOMBASA KENYA	FROM: CHAIM OUZIEL CHIEF ADMINISTRATION OFFICER UNAMIR/KIGALI
Unclass Fax No: 254 11 471349	PHONE: 212 963 - 11086
Telephone No:	Fax No: 212 963 3090
Cleared by:	SECTION:
Subject Title: WATER ANALYSIS TEST REQUIREMENTS	

Instructions/Comments

PLEASE PASS TO MAJ RON EMBY RM 220

1. ATTACHED IS THE COPY OF THE REQUEST FOR WATER ANALYSIS SUBMITTED TO SGS MOMBASA.
2. REGRET THE DELAY IN GIVING YOU THIS INFORMATION.
3. APPRECIATE ANALYSIS RESULT AS SOON AS PRACTICABLE.



UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 775-2-1

MED 865/95

To: DCOS SP
CISS**From:** FMO**Info:** FC**Date:** 07 Aug 95**Subject:** WATER CAPACITY WITHIN THE MISSION AREA

1. This memo outlines the current status as to the ability to produce potable water, as well as holding capacities, at both water points within Kigali..
2. The following outlines the capacities of each of the water treatment units within the mission area:
 - a. S/S Kigali - 350g/min (21,000g/hr) operational;
 - b. Multi-Media Filter - 37g/min (2,200g/hr) operational;
 - c. Reverse Osmosis - 20g/min (1,200g/hr) awaiting replacement parts;
 - d. Indian Water Plant - 20g/min (1,200g/hr) currently reserve plant; and
 - e. Aust Permutit - 25g/min (1,500g/hr) scheduled to come off line 7 Aug 95.
3. Current water production is by the Australian Unit only, at 1500g/hr.
4. Water analysis dated 7 Aug 95 confirms that both the S/S Kigali and Multi-Media water treatment plants are producing potable water. With the commissioning of both these plants water production would be as listed:
 - a. S/S Kigali - 50,000g/day due to restrictions on the availability of raw water, this production can be increased if raw water tankers were to be used as well as piped water; and
 - b. Multi-Media Filter - 37g/min (2200g/hr) this plant produces 700 g/hr more water than the Australian plant which has been the only operational Unit in the mission area for the previous two months. Raw water is trucked to this site from the city treatment plant.
5. Storage capacity of raw and treated water at both locations is as follows:
 - a. S/S Kigali - raw (50,000g) treated (75,000g);
6. Traffipro - raw (25,000g) treated (60,000g).
7. To ensure guaranteed water supply within the mission, with adequate reserve capacity, the replacement parts for the Reverse Osmosis plant are still required.

()

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: 752-2-1

To: FMO Remarks/Action: _____

Med Ops

Med Log

FHO

SO Med

HOLD FOR ANALYSIS - nonBtA 1/8

Please initial and date when action complete then pass quickly

Australian Medical Support Force



MINUTE

434 21

EHS 175
/95

SUPERVISOR, UN WATER POINT

For Information:

OIC EHS
FHO

WATER ANALYSIS - INDIAN WATER PURIFICATION UNIT, TRAFIPRO

1. On 25Jul 95, a water sample was submitted from the Indian water purification unit at TRAFIPRO for analysis.

2. The results are as follows (units are mg/l unless indicated):

	Test Sample	Maximum allowable
/ Total Dissolved Solids	109.2	1500
/ pH	6.95	6.5-9.2
/ Colour(PtCo)	2	15
/ Nitrates	6.9	45
/ Sulphates	28	400
/ Total Hardness	57	500
Total Coliforms (per 100ml)	0	1

3. This sample did not have the taste and odour problems present in previous samples tested. According to the tests performed, the water is potable.

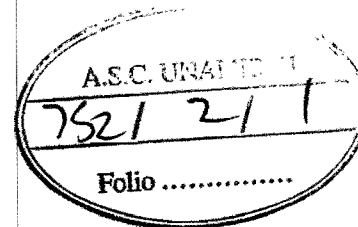
Michael Kent

M.I. KENT

CPL

EHS

28 Jul95



CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No. 775-2-1

To: ~~EMO~~

Remarks/Action: _____

~~Med Ops~~

~~Med Log~~

~~FHO~~

~~SO Med~~

Good Result ... 1/8.

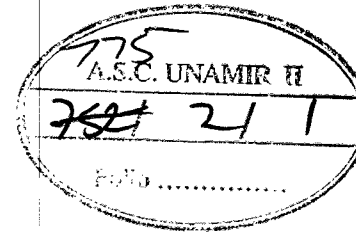
Please initial and date when action complete then pass quickly

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Australian Medical Support Force



MINUTE



EHS 174
/95

95 FLSG: IC LOG BASE

For Information:

FHO
OIC EHS

BOTTLED WATER ANALYSIS

1. Samples of Glendale Spring, San Benedetto, Jeema and Breakfree bottled water were submitted to EHS by IC LOG BASE, 95 FLSG for analysis between 24Jul 95 and 26Jul95.

SAMPLE DETAILS

2.	Brand	Batch designation	Hand labelling	Date Submitted
a.	Breakfree	nil	SC083	24Jul 95
b.	"	"	SC083-1	"
c.	"	"	SC47003	"
d.	"	"	SC470003-1	"
e.	"	"	nil	"
f.	Glendale Spring	"	SC470084 (2 litre)	"
g.	"	"	SC470084 (5 litre)	"
h.	"	"	SC4700841	"
i.	San Benedetto	Illegible	Zambian Water	"
j.	"	DIC L4T16208	"	"
k.	"	DIC 95 L4T16504	"	"
l.	"	DIC 95 L4T16565	"	"
m.	Jeema	P08-08-94 12, E08-08-95(AR)	Magerwa task, 78 26/7	26Jul 95


3. All samples were tested for total coliforms. Chemical analysis was performed on most of the samples. The results are as follows (units are mg/l unless specified):

Bacterial: All samples had nil Total Coliforms per 100 ml.

Chemical:

	a.	c.	d.	g.	i.	j.	k.	l.	m.	allowable limit
Colour(PtCo)	0	2	0	0	2	0	0	0	2	15
Total Solids	90.8	90.9	110.8	320	434	229	229	458	109.0	1500
pH	6.76	6.54	6.45	7.56	7.67	7.78	7.49	7.37	8.8	6.5-9.2
Nitrates	2.5	1.4	0.2	4.9	0.4	1.8	1.1	0.0	4.6	45
Sulphates	0	0	0	0	0	0	0	0	0	400
Hardness (total)	7.3	9.0	8.8	133.8	213	207	227	220	8	500
Chlorine (total)	0.0	0.0	0.02	0.0	0.03	0.0	0.0	0.0	NT	NA

4. All samples are potable.


M.I. KENT
CPL
TPM
EHS
27 Jul95

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: 75M-2-1

To: FMO Remarks/Action: _____
Med Ops _____
Med Log _____
[Redacted] JS 1/8.
SO Med _____

Please initial and date when action complete then pass quickly



Australian Medical Support Force



MINUTE

EHS 176/95

LOG OFFICER, INDBATT

For Information:

FHO
OIC EHS

EMIRATES BOTTLED WATER - LONGEVITY

Reference:

- A. EHS 171/95
- B. Your fax designated 300/11/UNAMIR/Q , received 28Jul95

1. The Emirates bottled water (Filling date Aug94, Expiry date Aug95) will continue to be potable provided the bottles and seals remain intact. With regular retesting (e.g. two-monthly) and proper storage (cool, dry, packed properly) the water may be used indefinitely.

2. EHS will not be testing water after about 10Aug95, however bacterial analysis will be available through the incoming Health Officer.

Michael Kent

M.I. KENT
CPL
HLTH ASST
EHS

28Jul95



LABORATORY SERVICES
Jubilee Insurance Building
Moi Avenue
P.O. Box 90264
Mombasa, Kenya.
Telephones: 315271
Cables: Supervise
Telefax: 21276

UNAMIR-KIGALI

Test Report No. 95/1599

SERIAL No. TR/ No. 4510

PRODUCT : WATER
DATE SUBMITTED : 27.7.95

TEST	METHOD	RESULTS
Lead content as Pb (ppm)	Standard methods for Water & waste water	Not detected (D.L. = 0.05ppm)
Iron content as Fe (ppm)	" " "	0.13
Copper content as Cu (ppm)	" " "	Not detected (D.L = 0. 1ppm)
Magnesium content as Mg (ppm)	" " "	8.7
Arsenic content as As(ppm)	" " "	Not detected (D.L. = 1ppm)
Cadmium content as Cd(ppm)	" " "	Not Detected (D.L = 0.05ppm)
Sodium content as Na (ppm)	" " "	10.25
Alkalinity mg/L	" " "	33
Sulphate as BaSO ₄ mg/L	" " "	3.45
Chlorides as Cl mg/l	" " "	29.1

REMARKS : Cyanide and Ammonia results to follow.

THIS REPORT REFERS TO A
SUBMITTED SAMPLE AND ALL
DETAILS IN RESPECT OF SOURCE,
QUANTITIES & MARKS ARE NOT
VERIFIED OR CONFIRMED.

/jnk
August 1, 1995

For and on behalf of SGS Kenya Limited

SGS Kenya Limited

Member of the SGS Group (Societe Generale de Surveillance)



UNAMIR -KIGALI

LABORATORY SERVICES
Jubilee Insurance Building
Moi Avenue
P.O. Box 90264
Mombasa, Kenya.
Telephones: 315271
Cables: Supervise
Telefax: 21276

95/1599B

Test Report No.

SERIAL No. TR/ No. 4521

PRODUCT : WATER
DATE SUBMITTED : 27.07.95

TESTS	METHOD	RESULTS
Ammonia (free and saline) mg/L	Standard methods for water and waste water	4.47
Cyanide as CN ⁻ (ppm)	Orion I.S.E. Methods	Not detected (detection limit= 0.1ppm)

/jnk

2 August 1995

THIS REPORT REFERS TO A
SUBMITTED SAMPLE AND ALL
DETAILS IN RESPECT OF SOURCE,
QUANTITIES & MARKS ARE NOT
VERIFIED OR CONFIRMED.

For and on behalf of SGS Kenya Limited

SGS Kenya Limited

Member of the SGS Group (Societe Generale de Surveillance)

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No. 775-2-1

To: FMO Remarks/Action: _____

Med Ops

Med Log

SO Med

File 2/8

Please initial and date when action complete then pass quickly

F/O-5500
MISC-2432

MED 830/95

Cover Sheet Classification
UNCLAS
Enclosure Classification

FACSIMILE COVER SHEET

Page 1 of 2 pages

STRY	Action to:	FMO
	1	
	2	
02 AUG 1995		
A.S.C. UNAMIR II		
75 2/1		
Folio		

File Number: 775-2-1	Senders Name:
Precedence: PRIORITY	DTG Sent: 01 August 1995
Facsimile Destination	Facsimile Originator
Maj Ron Emby OP CHAMELEON Reef Hotel (Rm 220) MOMBASA KENYA	FROM: CHAIM OUZIEL CHIEF ADMINISTRATION OFFICER UNAMIR/KIGALI
Unclas Fax No: 254 11 471349	PHONE: 212 963 - 11086
Telephone No:	Fax No: 212 963 3090
Cleared by:	SECTION:
Subject Title: WATER ANALYSIS TEST REQUIREMENTS	

Instructions/Comments

PLEASE PASS TO MAJ RON EMBY RM 220

1. ATTACHED IS THE COPY OF THE REQUEST FOR WATER ANALYSIS SUBMITTED TO SGS MOMBASA.
2. REGRET THE DELAY IN GIVING YOU THIS INFORMATION.
3. APPRECIATE ANALYSIS RESULT AS SOON AS PRACTICABLE.

CAD CASS FMD

85 AUG 1 1995
UNAMIR II



ps/2
mcc2432

UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE: 775-2-1
MED 801/95

To: SGS LABORATORIES
From: HQ UNAMIR
Date: 26 Jul 95
Subject: WATER ANALYSIS PARAMETERS

1. The following is the list of tests required to be conducted on the water sample which will be supplied to you supplied to you:

- a. Ammonia free and saline (1500); 4.47
- b. Chloride (900);
- c. Sulphate (900);
- d. Alkalinity (800);
- e. Lead (900);
- f. Iron (900);
- g. Copper (900);
- h. Magnesium (900);
- i. Arsenic (900);
- j. Cadmium (900);
- k. Cyanides (1000); and NOT DETECTED 0.1 ppm ORION method
- l. Sodium (900).

(202 US)

2. Total cost of tests 11400Ksh (\$202US).
3. Point of contact at MED BR UNAMIR HQ is Captain John Nerney on ext 11115.



UNAMIR - MINUAR

HQ UNAMIR MED BR

FILE: 775-2-1

MED 793/95

To: AUSMED

From: FMO

Date: 22 Jul 95

Subject: HEALTH TASKING REQUEST

1. It is requested that AUSMED conduct health support tasks in Sector 3B.
2. Tasking is to include advice on close down of facilities and residual spraying of all buildings occupied by MALICOY at the following locations:
 - a. Gitarama - 3 platoons GR7271;
 - b. Ruhango - 1 platoon GR7653 (given as 7754);
 - c. Nitongwe - 1 platoon GR8553 (given as 8553); and
 - d. Masango - 1 platoon GR6154.
3. The following humanitarian health tasking is authorised to be conducted during this deployment:
 - a. Health assessment and pesticide treatment, if required, of three orphanages in Gitarama; and
 - b. Health assessment and pesticide treatment, if required, of one orphanage at Nyanza (Hanika) near Nyabisindu) GR7141.
4. Point of contact with MALICOY is the RMO, consideration of use of an interpreter during this tasking is recommended.
5. Point of contact at MED BR UNAMIR HQ is Captain John Nerney on ext 11115.

TO: FHO

10 JUL 95

FROM: MAO SALL

SUBJ: PL AND ORPHANS LOC FOR VEST MED

TASKING

MALICOY

- 1) Gitaroma : 3 Platoon GR: 72/71
3 orphanage
- 2) Lukago : 1 Platoon GR ^{77/54} ~~89/57~~
- 3) Nitungwe : 1 Platoon GR 89/57
- 4) Masengo : 1 Platoon GR 64/54
- 5) Nyanza (Hamika) : 1 orphanage (Near Nyabisinda)
71/41

CORRESPONDENCE DISTRIBUTION
COVER SHEET

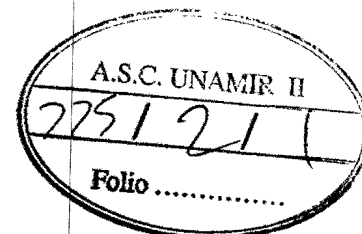
File No: 275-2-1

To: FMO Remarks/Action: _____
Med Ops _____
Med Log _____
FHO ← _____
SO Log _____

Please initial and date when action complete then pass quickly



MINUTE



REF: SO LOG 302/95

TO: CISS (Attn Mr Wheeler)
SUMMO
INDBATT (Attn: Engr Offr)
MED BR (Attn: FHO)
95 FLSG (Attn: MWO Boone)
G3 ENGR/FEO


INFO: DCOS OPS
DCOS SP

FROM: SO LOG

SUBJECT: RECON OF KIGALI WATER POINT

1. Approval has been given by the relevant Government authority for UNAMIR to conduct a detailed recon of the Kigali Water Point with a view to determining works required to upgrade the facility and the feasibility of placing water purification units at the site.

2. At 0930hr Mon 10 Jul 95 a meeting is to be held at the offices of the Director of Electrogaz followed by the recon. Addressees are requested to assemble in the SO LOG's office at HQ UNAMIR at 0900 hr Mon 10 Jul 95 for a short briefing prior to moving to the meeting and recon. Mr Wheeler is requested to ensure the CBES Water Engr is also available for the recon. MWO Boone is requested to ensure the relevant Brown and Root water operators are also in attendance.


S.A. TAYLOR
MAJ
SO LOG
G4 LOG PLANS
Ext 11107
7 JUL 95

ASC UNAMIR 11



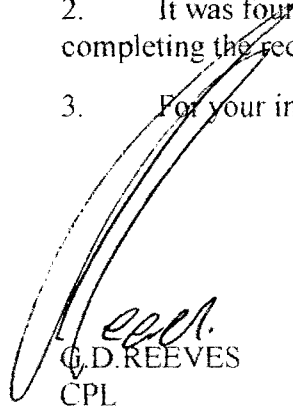
MINUTE

167/95

FHO

WATER ANALYSIS OF BOTTLED WATER AT MAGERWA

1. As tasked by the FHO a complete water analysis was conducted by EHS on two brands of bottled water held at the Magerwa container yard. The two brands were Emirates and Jeema.
2. It was found that both brands were either passed their expiry or close to it, however after completing the required tests it was found that there was no problem with either brand of water.
3. For your information.


C.D. REEVES
CPL
HLTH ASST
EHS

12 JUL 95

dn-12/7

775-2-1

**ENVIRONMENTAL HEALTH SECTION (AUSMED)
COMPLETE WATER ANALYSIS RESULTS**

Ordered By: FHO

Date: 10 Jul 95

Sample No. 1 OF 3 EMIRATES JUL 95

1. Location of Source: Magerwa Connex No. BHUNC 1821

2. Map Sheet **Series** **Edition** **Scale** **Description/Location**

3. Results of Chemical Analysis in parts per million stated

Chemical	Mg/Lt	Allowable Limits	Remarks
Colour (Hazen Units)	2.5	15	
Turbidity Units	0	25	
Total Solids	103.3	1500	
Reaction pH Value	7.0	6.5 - 9.2	
Ammonia free and Saline	NT	0.5	
Nitrates	1.7	45	
Chlorides	NT	600	
Sulphates	1.0	400	
Hardness Temporary	9.9	500	
Hardness Permanent	NT	500	
Hardness total	NT	500	
Chlorine Free	0.05	ppm	
Chlorine Total	0.06	ppm	

4. Results of Biological Analysis in Coliforms per 100ml

Total Coliform - NIL

Faecal Coliform - NIL

5. Statement: Including suitability for use and recommendations for treatment. Is source suitable for use after sedimentation, filtration and chlorination.

ALTHOUGH THIS BATCH IS ALMOST PAST ITS USE BY DATE THERE IS NO REASON WHY IT CANT BE USED AS LONG AS THE SEALS REMAIN INTACT.

6. Analysing Officer

CPL REENE

ASC 2 UNAMIR II

Signature

Date

12 JUL 95

ENVIRONMENTAL HEALTH SECTION (AUSMED)
COMPLETE WATER ANALYSIS RESULTS

Ordered By: FHO

Date: 10 Jul 95

Sample No. 2 OF 3 JEEMA MAY 95

1. Location of Source: Magerwa Connex No. BHUNC 1821

2. Map Sheet **Series** **Edition** **Scale** **Description/Location**

3. Results of Chemical Analysis in parts per million stated

Chemical	Mg/Lt	Allowable Limits	Remarks
Colour (Hazen Units)	2.5	15	
Turbidity Units	0	25	
Total Solids	101.3	1500	
Reaction pH Value	7.0	6.5 - 9.2	
Ammonia free and Saline	NT	0.5	
Nitrates	2.3	45	
Chlorides	NT	600	
Sulphates	1.0	400	
Hardness Temporary	9.6	500	
Hardness Permanent	NT	500	
Hardness total	NT	500	
Chlorine Free	0.03	ppm	
Chlorine Total	0.04	ppm	

4. Results of Biological Analysis in Coliforms per 100ml

Total Coliform - NIL

Faecal Coliform - NIL

5. Statement: Including suitability for use and recommendations for treatment. Is source suitable for use after sedimentation, filtration and chlorination.

ALTHOUGH THIS BATCH OF WATER IS PASSED IT USED BY DATE THERE IS NO REASON WHY IT CANT BE USED AS LONG AS THE SEALS REMAIN INTACT.

6. Analysing Officer

ASC 2 UNAMIR II / *Signature*

Date

CPL REWED

Reed

12 JUL 95

**ENVIRONMENTAL HEALTH SECTION (AUSMED)
COMPLETE WATER ANALYSIS RESULTS**

Ordered By: FHO **Date:** 10 Jul 95 **Sample No.** 3 OF 3 EMIRATES AUG 95

1. Location of Source: Magerwa Connex No. BHUNC 1821
2. Map Sheet **Series** **Edition** **Scale** **Description/Location**

3. Results of Chemical Analysis in parts per million stated

Chemical	Mg/Lt	Allowable Limits	Remarks
Colour (Hazen Units)	2.5	15	
Turbidity Units	0	25	
Total Solids	101.3	1500	
Reaction pH Value	7.2	6.5 - 9.2	
Ammonia free and Saline	NT	0.5	
Nitrates	1.9	45	
Chlorides	NT	600	
Sulphates	1.0	400	
Hardness Temporary	8.7	500	
Hardness Permanent	NT	500	
Hardness total	NT	500	
Chlorine Free	0.04	ppm	
Chlorine Total	0.05	ppm	

4. Results of Biological Analysis in Coliforms per 100ml

Total Coliform - NIL

Faecal Coliform - NIL

5. Statement: Including suitability for use and recommendations for treatment. Is source suitable for use after sedimentation, filtration and chlorination.

ALTHOUGH THIS BATCH IS ALMOST PAST ITS USE BY DATE THERE IS NO REASON WHY IT CANT BE USED AS LONG AS THE SEALS REMAIN INTACT.

6. Analysing Officer

ASC 2 UNAMIR II *Signature*

Date

CPL REEVE

Reeve

12 JUL 95



MINUTE

454/1/1
105/95

FHO

For information:

RMO ZAMBATT
RMO MALICOY
OIC EHS

HEALTH SUPPORT TO ZAMBATT AND MALICOY

Reference:

A. WNGO 183

1. In accordance with the above reference, Environmental Health Section conducted health support to ZAMBATT and MALICOY on the 28-29 Jun 95. CPL G. Reeves and PTE S. Robertson represented EHS.

ZAMBATT

2. The RMO only had one major concern, that was with flying ants, however there was no evidence of a major problem during the deployment to ZAMBATT.

3. Whilst at ZAMBATT, on job training was conducted with the ZAMBATT EHS on the following types of pesticide dispersal equipment,

a. Fog generator, and

b. Solo sprayer and duster.

4. At the time of the deployment two water tankers arrived from Kigali to resupply ZAMBATT, samples were taken from each of the tankers to check the chlorine levels, which was found to be at an acceptable level.

5. The two ZAMBATT positions visited, were TAC HQ at Gikongoro and LOG HQ at Murambi a wet sprayed of 1% coopex wp was used to control arthropod vectors particularly flying ants. Both positions were also fogged with 1% reslin to control flies.

775-2-1

21

SOS KINDERDORF ORPHANAGE

6. It was requested that EHS visit SOS Kinderdorf to conduct pest eradication, however after speaking with the orphanage doctor it was obtained that the orphanage had no problem with pests instead it was found that they had a problem with Trichophytosis a fungal infection of the head which was affecting a large number of children.

MALICOY

7. After speaking with the RMO MALICOY it was obtained that the MALICOY platoon locations required fumigation, however due to time restrictions this task was unable to be performed.

8. The MALICOY HQ position was wet sprayed with 1% bulldock to control arthropod vectors. No fogging was done as the fog generator broke down during transit.

WATER ANALYSIS

9. Water samples were taken at ZAMBATT LOG HQ and MALICOY HQ. No samples were taken from ZAMBATT TAC HQ or SOS KINDERDORF as they use the same water source as ZAMBATT LOG HQ. Both samples were found to be free from faecal and total coliform contamination.

RECOMMENDATIONS

10. The chlorine levels of the two samples taken at ZAMBATT LOG HQ were adequate with 2.2 and 1.5 ppm chlorine respectively however if the water had to be transported further than Gikongoro the chlorine would dissipate to an unsatisfactory level thus increasing the chances of contamination. Chlorine levels at the Brown and Root water purification plant should be increased to at least 5 ppm before tankers leave to do water supply.

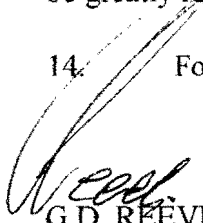
11. The problem at SOS KINDERDORF be reassessed by the FHO for possible action by the AUSMED hospital.

12. The EHS be retasked to provide health support to MALICOY and its platoon positions.

CONCLUSION

13. If the above recommendations are adopted as soon as possible the threat of disease will be greatly reduced.

14. For your information and action.


G.D. REEVES
CPL
HLTH ASST
EHS

8 Jul 95

LAB. NO. 597/95

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF HEALTH

Telegrams: "CHEMILAB".

Telephone: 25021/2.

Address all correspondence to:

Chief Government Chemist.

In reply please quote:

Your Ref. No.

Our Ref. No. 217/A₂/29

Maj Ron Emby

Cdr UNAMIR det.

DAR-ES-SALAAM



GOVERNMENT CHEMICAL LABORATORY,

P.O. Box 164,

DAR ES SALAAM.

5th July, 1995

RE: TESTING OF FOODS SAMPLES

On 1st July 1995 we received five food sample's Menu from Mr. RUPINDER of UNILAR for Microbiological analysis.

The samples have been analysed with the following results,

SAMPLE I (ICSU 379081 - 1)

FOOD ITEM	KCG SEPAT DAL	MIXED VEGETABLE	CHICK FASICLA	JAMB CURRY	PINEAPPLE JAM	BISCUITS
1. General appearance	good	good	good	good	good	good
2. Odour	good	good	good	good	good	good
3. Expiry date	July 1995	July 1995	July : 1995	Not indi- cated	Not indi- cated	Not indi- cated
4. Yeast/Mould Count (cf u/g)	Nil	Nil	Nil	Nil	Nil	Inil
5. Presence of Pathogenic bacteria	Nil	Nil	Nil	Nil	Nil	Nil

SAMPLE 2: (ISCU 377564 - 8)

FOOD ITEM	KAGANG SEPAT	AYAM MERAH	MUTTONAL CURRY	VEGETABLE ALADAICA	PINEAPPLE JAM	BISCUITS
1. General Appearance	good	good	good	good	good	good
2. Odour	good	of cooked mutton	of cooked mutton	good	good	good
3. Expiry date	August	August	August	August	Not indicated	Not indicated
4. Yeast/Mould count (cfu/g)	Nil	Nil	Nil	Nil	Nil	Nil
5. Presence of Pathogenic Bacteria	Nil	Nil	Nil	Nil	Nil	Nil

SAMPLE 3: (IDCTR IOLU 213265.0)

FOOD ITEM	KAGANG SEPAT DHAL	MIXED VEGETA-	SERUNDING DUGING	LAMB CURRY	PINEAPPLE JAM	BISCUITS
1. General appearance	Not good	Not good	Not good	good	good	good
2. Odour	Putrid	Putrid	Putrid	Putrid	not good	good
3. Expiry date	Dec.94	May 95	August 1994	Not indicated	Not shown	Not shown
4. Yeast/Mould Count (Cfu/g)	60	20	89	70	110	Nil
5. Yeast & Mould Identified	Penici- llium <u>Spp</u>	Penici- llium <u>Spp</u>	Penici- llium <u>Spp</u>	Penici- llium <u>Spp</u>	Fusarium and Peni- cillium <u>Spp</u>	Nil

SAMPLE 4: (ICSU 3758661)

FOOD ITEM	KCG SEPAT DAL	VEGETABLE ALADALCA	AYAM M MERAH	MUTTONAL CURRY	PINEAPPLE JAM	BISCUITS
1. General appearance	good	good	good	good	good	good
2. Odour	good	good	good	good	good	good
3. Expiry date	August 1995	August 1995	August 1995	August 1995	Not indicated	Not indicated
4. Yeast/Mould Count/g	Nil	Nil	Nil	Nil	Nil	Nil
5. Presence of Pathogenic bacteria	Nil	Nil	Nil	Nil	Nil	Nil

SAMPLE 5 (ICSU 393782 - 0)

FOOD ITEM	MIXED VEGETABLES	CHICK FASIOLA	KAGANG SEPAT DHAI	LAMB CURRY	PINEAPPLE JAM	BISCUITS
1. Expiry date	July 1995 g	July 95	February 1995	Not indica- ted	Not indicated	Not indica- ted
2. Odour	good	good	-	good	good	good
3. Presence of heavy metal	Nil	Nil	Nil	Nil	Nil	Nil
4. Presence of Pesticides residue	Nil	Nil	Nil	Nil	Nil	Nil
5. Yeast/Moulds Counts	Nil	Nil	150	Nil	Nil	Nil

From the above Microbiological analysis results, we are of the opinion that all samples are fit for human consumption except kagang sepat dhal, mixed vegetables, serunding Duging, lamb curry, pineapple jam and Kagang sepat dhal of samples No. 3 and 5 respectively.

Josephat Maganga

Josephat Maganga
Chemist II

CHIEF GOVERNMENT CHEMIST

GOVERNMENT CHEMICAL LABORATORY
MINISTRY OF HEALTH
P.O. Box 164
DAR ES SALAAM

ASC II UNAMIR II



MINUTE

775-2-1

454-1-1
EHS 169

CO AUS MED

For Information:


UNAMIR HQ (FMO)

UNAMIR 500 MAN TRANSIT CAMP

1. As requested by the UNAMIR Health Officer, a routine health inspection of the UNAMIR 500 man transit camp was conducted on 18 Jul 95. Present at the time of the inspection was SGT G. Bowyer, CPL M. Kent, LCPL J. Sellers and PTE S. Robretson.
2. During the inspection the following points were noted:
 - a. There were no rubbish bins located at the accommodation tents. This caused rubbish to accumulate at the ends of the accommodation, and scatter throughout the area of the accommodation tents;
 - b. There was faecal contamination on the shower floors and toilet seats within the portable ablutions. It was also noted that a number of the toilets had been used and not flushed. These occurrences could cause problems such as blockages in the toilets and sewage system or disease transmission if not rectified;
 - c. The water storage tanks for the portable ablutions were found to be low in volume;
 - d. The sewage manhole covers behind the portable showers and toilets had been run over by vehicle and damaged, causing particles of the lids to fall into the pits and reducing the flow of raw sewage;
 - e. The drainage from the floors in the portable ablutions was not connected to a run off point. This allows water to accumulate behind and under the building, giving vectors such as mosquitoes an ideal breeding ground; and
 - f. The bore hole latrines were found to have faeces and rubbish on the floors.

FAO
Action plan
2/7
BMS Acting Structural
Problem
Guide has submitted to
20/7
so met.

3. The following recommendations are made:
- a. Rubbish bins be placed at each end of the accommodation tents for the disposal of small articles and a number roped off rubbish points for the disposal of larger items such as boxes etc;
 - b. Each portable ablution block have sufficient cleaning equipment located within it, to allow any member that may have an accident to clean it up;
 - c. The water storage tanks used for the ablutions be refilled on a regular basic to ensure there is ample water for cleaning of the facilities;
 - d. The sewage manholes be cleaned out to allow raw sewage to flow easily and new lids placed on them;
 - e. Floor drainage be connected to the sewage system to prevent water accumulation on the ground;
 - f. The bore hole latrines be equipped with cleaning equipment to ensure they can be kept clean; and
 - g. A set of guidelines be made up showing the hygiene responsibilities of the commanding unit and visiting units. AUS MED EHS will draft a copy of hygiene duties and responsibilities by the 22 JUL 95 for the transit camp to be approved by UNAMIR HQ.
4. Due to the confinement of the area and the number of personnel that may be required to stay there at any one time. It is advised that the above recommendation be implemented immediately to prevent any discomfort or misunderstanding of members within the area. This will also reduce the possibility of disease transmission which may spread rapidly in these close conditions.


G. BOWYER
SGT
INSP HLTH
2IC EHS

20 JUL 95

775-2-1

Australian Medical Support Force



MINUTE

EHS 170/95

GHANBATT HO

For Information:

FHO
OIC EHS

25/7

BOTTLED WATER ANALYSIS - 'SAN BENEDETTO' AND 'EMIRATES'

1. Two samples of bottled water were submitted to EHS for analysis by HO, GHANBATT on 19 Jul 95.

2. The results are as follows:

	San Benedetto	Emirates	Allowable limit
pH	7.75	8.2	6.5-9.2
Colour (PtCo)	0	0	15
Total dissolved solids	224	212	1500
Nitrates	2.1	12.4	45
Nitrites	0.004	0.004	45
Sulphates	1	33	400
Total hardness	230	145	500
Total coliforms/100ml	0	0	1

3. The San Benedetto sample was stamped DIC 95 L4T16415 on the lid and marked 'Ghanbatt94'. The Emirates sample was labelled 'filled Sept 94, expiry Sept 95' and marked 'Ghanbatt95'.

4. Both water samples tested were potable.

Michael Kent

M. I. KENT

CPL

HLTH ASST

EHS

do Jul 95



UNAMIR - MINUAR

HQ UNAMIR MED BR
→ FILE: 775-2-1
MED 780/95

To: AUS MED

From: FMO

Date: 19 Jul 95

Subject: HEALTH TASKING REQUEST - AUS MED

1. It is requested that AUS MED conduct health support tasks in Sector 1 (Kigali).
2. Details of the tasking is as follows:
 - a. Daily assessment of the condition of the 500 Man Transit Camp when Units are in transit;
 - b. Assessment of the bottled water reserve held by INDBATT at Alexander Barracks;
 - c. Assessment of water quality from the Indian Water Plant at Traffipro; and
 - d. Current assessment of the quality of the raw water received at Traffipro.
3. Point of contact at MED BR UNAMIR HQ is Captain John Nerney ext 11115.

CORRESPONDENCE DISTRIBUTION
COVER SHEET

File No: _____

To: FMO Remarks/Action: _____

~~Med Ops~~ _____

~~Med Log~~ _____

~~FHO~~ _____

~~SO Log~~ _____

JS 26/7.

Please initial and date when action complete then pass quickly

**UNAMIR**

UNITED NATIONS ASSISTANCE MISSION FOR RWANDA

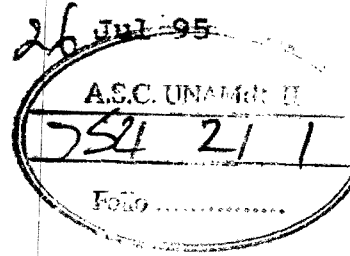


300/UNAMIR/11/2

From : INDBATT
To : AUSMED
Info : Force Health Officer
: 50 Food
: 95 CMSG

Subject : BOTTLED WATER

1. INDBATT has 1743 Litres of bottled water which will expire in Aug 95.
2. CPL KENT of your hospital has/handed over the samples of the bottled water for chemical analysis. /been
3. Please intimate by return FAX, the chemical analysis report to enable us to take action accordingly.



(Debasish Pal)
Captain
Logistics Officer
for CO INDBATT

Cover Sheet Classification
UNCLASSIFIED

UNAMIR ARCHIVES
Enclosure Classification

- 27 JUN 1995 -

OUT-4409

UNITED NATIONS
ASSISTANT MISSION FOR RWANDA

NATIONS UNIES
MISSION POUR L'ASSISTANCE AU RWANDA

Page 1 of 1

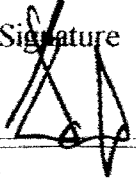
FC 010-1

MED 668/95

TO: MAJOR NASIM MILOBS Force Coordinating Team NIAROBI	FROM: Medical Branch HQ UNAMIR II KIGALI RWANDA
FILE NO: 775-2-1	DATE: 26 Jun 1995
FAX NO: 254 2 622668	PHONE: 254 2 622598
	FAX NO: 254 2 622963
	DRAFTED BY: WO2 G R. ATTARD
SUBJECT: SEARCH FOR CHEMICAL ANALYSIS LABORATORY - ASBESTOS ANALYSIS	

COMMENTS/INSTRUCTIONS

1. A request is made to the Force Coord Team to locate a Chemical Laboratory, able to assess asbestos for occupational health reasons.
2. Areas which may be of assistance are local mining companies, hospitals, and Department of Health.
3. Thank you for your assistance in this matter
4. *SGS KENYA LIMITED, LABORATORY SERVICES
JUBILEE INSURANCE BUILDING
MOI AVE
Tel: 315271
This company may also be able to*

Releasing Officer's Name	Signature	Rank/Appointment	Date
P.G. WARFE		COL/FMO	26 JUNE 95
Cover Sheet Classification UNCLASSIFIED		Enclosure Classification	



UNAMIR - MINUAR

HQ UNAMIR MED BR
FILE:775-2-1
MED /95

To: AUSMED

From: FMO (Med Br)

Date: 21 Jun 95

Subject: DISTRIBUTION AND TRAINING ON PESTICIDE DISPERSAL EQUIPMENT

1. On receipt of the pesticide dispersal equipment, safety gear and residual insecticides, a training program is to be conducted by Environmental Health Section, AUSMED for the following contingents:


- a. ETHIOBATT,
- b. INDBATT,
- c. MALAWICOY,
- d. MALICOY,
- e. SENBATT, and
- f. ZAMBATT.

2. Training will be conducted at the AUSMED Compound and will include:

- a. Safety precautions - use of safety equipment and handling pesticides;
- b. Maintenance of equipment; and
- c. Use of pesticide dispersal equipment.

3. This training is a requirement prior to the issue of any equipment or pesticides to ensure the health, safety and wellbeing of UN Contingent Personnel.

4. Point of contact at MED BR UNAMIR HQ is WO2 George Attard ext 11115.


G.R. ATTARD
WO2
for FMO

MED 668/95


TO: MAJOR NASIM MILOBS Force Coordinating Team NIAROB	FROM: Medical Branch HQ UNAMIR II KIGALI RWANDA
FILE NO: 775-2-1	DATE: 26 Jun 1995
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Tel: 315271

This company may also be able to

Releasing Officer's Name	Signature	Rank/Appointment	Date
P.G. WARFE		COL/FMO	26 JUNE 95
Cover Sheet Classification UNCLASSIFIED	Enclosure Classification		

Cover Sheet Classification UNCLASSIFIED	Enclosure Classification
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UNITED NATIONS
ASSISTANCE MISSION FOR RWANDA



NATIONS UNIES
MISSION POUR L'ASSISTANCE AU RWANDA

Page 1 of 1

MED 668/95

TO: MAJOR NASIM MILOBS Force Coordinating Team NIAROB	FROM: Medical Branch HQ UNAMIR II KIGALI RWANDA
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2. Areas which may be of assistance are local mining companies, hospitals, and Department of Health.
3. Thank you for your assistance in this matter.

Releasing Officer's Name	Signature	Rank/Appointment	Date
P.G. WARFE		COL/FMO	26 JUNE 95
Cover Sheet Classification UNCLASSIFIED	Enclosure Classification		

Raise Tasking -

ZAMBATT/A 151

TO: THE FORCE MEDICAL OFFICER
UNAMIR II HQ
KIGALI

FROM: ZAMBATT HQ

DATE: 18 JUNE 1995

SUBJECT: SPRAYING OF ZAMBATT OCCUPIED CAMPS AND SCREENING
OF SOLDIERS WITH DENTAL PROBLEMS

1. We are requesting for assistance from Ausmed Health Wing to come and spray the camps of ZAMBATT Contingent and also Dental Officers to screen soldiers with Dental problems.
2. Forwarded for your consideration and action.

W Challengwe
PP W CHILENGWE, MBCh, BSSHB (DR)
Captain
for Contingent Commander

Pl. 11245
11244



UNITED NATIONS

ASSISTANCE MISSION FOR RWANDA



NATIONS UNIES

MISSION POUR L'ASSISTANCE AU RWANDA

UNAMIR - MINUGO

HQ UNAMIR MED BR

FILE 775-2-1

MEDLOG 646/95

To: DCOS (Sp)

From: FMO

Date: 19 Jun 95

Subject: CONSIDERATIONS ON REPATRIATION OF UN FACILITIES PRIOR TO
HANDOVER

1. A number of factors, from a health viewpoint, will need to be considered to ensure that a streamlined approach to the repatriation of UN utilised facilities occurs prior to handover to the appropriate authorities.
2. Details of the factors are as follows:
 - a. De-commissioning of deep trench latrines to ensure that contamination to the environment does not occur.
 - b. Removal of all rubbish and sanitary closing of any refuse pits.
 - c. Pump out of any sullage or septic tank system within the facilities.
 - d. Return reallocation of medical stores/equipment into central UNAMIR stores.
 - e. Return reallocation of UNAMIR owned pvnt med assets.
 - f. Residual treatment of buildings if time and resources permit.
 - g. Provision of a clearance certificate indemnifying the UN of further costs.
3. I request that I be advised at the earliest of the timetable of repatriation of individual contingents to allow time for the Force Health Officer to provide detailed tailored advice.



UNAMIR - MINUAR

→ HQ UNAMIR MED BR
FILE: 775-2-1
MED 637/95

To: FMO

From: FHO

Date: 15 Jun 95

Subject: **CONSIDERATIONS ON REPATRIATION OF UN FACILITIES PRIOR TO HANDOVER**

1. A number of factors, from a health viewpoint, will need to be considered to ensure that a streamline approach to the repatriation of UN utilised facilities occurs prior to handover to the appropriate authorities.
2. Details of the factors are as follows:
 - a. De-commissioning of deep trench latrines to ensure contamination to the environment does not occur.
 - b. Removal of all rubbish and sanitary closing of any refuse pits.
 - c. Pump out of any sullage or septic tank system within the facilities.
 - d. Return/reallocation of medical stores/equipment into central UNAMIR stores.
 - e. Return/reallocation of UNAMIR owned pvnt med assets.
 - f. Residual treatment of buildings if time and resources permit.
 - g. Provision of a clearance certificate indemnifying the UN of further costs.
3. WO2 Attard will be able to furnish the technical data on closing of facilities and may also have added points.



UNAMIR - MINUAR

→ HQ UNAMIR MED BR
FILE: 775-2-1
MED 637/95

To: AUS MED

From: FMO 

Date: 15 Jun 95

Subject: HEALTH TASKING REQUEST - AUS MED

1. It is requested that AUS MED conduct health support to sector 3B MALICOY.
2. Details of the tasking is as follows:
 - a. evaluation of the extent of mosquito breeding within the Bn area and implementation of control measures if necessary;
 - b. treatment to control crawling insects; and
 - c. evaluation of potability of water supply.
3. Point of contact at MED BR UNAMIR HQ is Captain John Nerney ext 11115.

775-2-1 JJ

ASC 2 UNAMIR 2



MINUTE

454/1/1
164/95 EHS

FHQ .

For Information:

RMO ETHIOBATT

OIC EHS

HEALTH SUPPORT TO ETHIOBATT & ORPHANAGES - 31 MAY - 2 JUN 95

Reference:

A. WNGO 171

1. In accordance with reference A, Environmental Health Section conducted health support to Ethiobatt and four nearby orphanages, from 31 May 95 to 2 Jun 95. CPL M. Kent and CPL M. Trevitt were the EHS members deployed.

Orphanages

2. None of the orphanages visited had flyscreens and mosquito nets were not in general use. Due to this, there was an ongoing malaria problem amongst orphanage children in this sector. All the orphanages visited were fogged with 1% reslin and sprayed with 1% cyfluthrin to control mosquitos. Frequent new cases of malaria were occurring with the exception of Rusayo Orphanage. Questioning of orphanage staff revealed no other significant health problems amongst the children.

3. Hygiene standards were generally high. A water sample was collected for analysis at Rusayo Orphanage and the results are outlined in Annex A.

Ethiobatt

4. Ethiobatt medical staff were concerned about the level of gastrointestinal illness occurring. Water was collected for analysis at several Ethiobatt positions, these results are outlined in Annex B. Water contamination may well have been a cause of gastrointestinal illness at Ethiobatt Log Coy. The water points in all other Ethiobatt locations tested were well within the limits required for potable water.
5. The toilets at Ethiobatt Log Coy were blocked and overflowing. This may have been due to overload or that they were squat toilets which may not be designed to handle toilet paper. The accumulation of used toilet paper and faeces is a health risk as intestinal illness may well be spread by flies or boots to other areas.
6. Ethiobatt Log Coys' kitchen had rubbish placed nearby unbagged and uncovered which encourages flies, increasing the risk of fly borne intestinal illness.
7. These problems were not observed at other Ethiobatt positions visited, although not all Ethiobatt positions were visited and time at some locations was restricted.
8. All Ethiobatt positions visited were wet-sprayed with 1% cyfluthrin to control arthropod pests (especially mosquitos). Ethiobatt Log Coy was also fogged with 1% Reslin to control flies.
9. Malaria did not appear to be a major concern to Ethiobatt medical pers. Most Ethiobatt soldiers were using mosquito nets and presumedly a high level of resistance was present

Recommendations

Orphanages

10. Provision of flyscreens and mosquito nets to the orphanages would greatly assist in controlling their malaria problem.
11. As per Annex A, the water supply at Rusayo orphanage is suspect, although no problems of intestinal illness are reported. Suggested control measures are outlined in Annex A.

Ethiobatt

12. The water from the bladder at Ethiobatt Log Coy has a high level of bacterial contamination, control measures are outlined in Annex B.
13. The toilets at Ethiobatt Log Coy require action. Either changing to pit latrines or ongoing maintenance (pumping out) is recommended. Provision of hand washing facilities at all toilets is necessary to reduce the risk of food borne illness.

14 The rubbish point outside Ethiobatt Log Coy kitchen should be positioned further away from the food preparation areas. Rubbish should be sealed in plastic bags to reduce the fly problem.

15 All Ethiobatt pers should use mosquito nets at night to minimise the risk of malaria.

Conclusion

16. Adherence to the above recommendations will reduce the disease risk to Ethiobatt soldiers and the Orphanage Children. This will also bring the standard of health and hygiene in all areas to a higher level than presently obtained.


M.I. KENT
CPL
EHS

24 Jun 95

Annexes: A. EHS 153/95 Water Analysis - Rusayo Orphanage
B. EHS 154/95 Ethiobatt Water Analysis

ASC 2 UNAMIR 2



MINUTE

EHS 153/95

CAPT E. Mangini, Humanitarian Officer
MILOBS - CYANGUGU

Attention: OIC EHS

WATER ANALYSIS - RUSAYO ORPHANAGE

1. On 4 June 95 water was collected from Rusayo Orphanage for chemical and bacterial analysis by CPL M. Kent, HLTH ASST, Environmental Health Section, Ausmed.

Results

2. The results are as follows:


	Result	Desirable limit
Free Chlorine (ppm)	0.00	NA
Total Chlorine (ppm)	0.00	NA
Sulphate (mg/ml)	0.00	400
Nitrate (mg/ml)	0.6	45
Nitrite (mg/ml)	0.00	45
Total coliform bacteria (per 100ml)	200 (approx)	100 <i>th</i>

3. The sample was well within acceptable limits for nitrates, nitrites and sulphates, however total coliforms per 100 ml was above the recommended level of 100.

4. The presence of coliforms at high levels indicates possible faecal contamination of the water. Possible problems to occur from drinking this water would be vomiting or diarrhoea from intestinal illness.

Recommendation:

5. This water should be chlorinated prior to drinking to eliminate harmful organisms. If the water is held in a tank this would simply involve hand dosing 7g (1 tablespoon) calcium hypochlorite (or sodium hypochlorite) per 1000 litres. If the water is piped directly from a reservoir it would have to be collected in a tank or jerries before dosing.


M.I. KENT
CPL
HLTH ASST
EHS

7 June 95

ANNEX B

ASC 2 UNAMIR II



MINUTE

EHS 154/95

ETHIOBATT RMO
OIC EHS

UNAMIR HQ

Attention: FHO

ETHIOBATT WATER ANALYSIS

1. During the period 30 May - 3 June 95 water samples were collected from several Ethiobatt locations for chemical and bacteriological analysis by CPL M. Trevitt and CPL M. Kent, Environmental Health Section, Ausmed.

Results

2. The following positions had water analysed:

- a. Nyamasheke,
- b. Rwesero,
- c. Gishoma, and
- d. Cyangugu, (Ethiobatt Log Coy)

3. The following results were obtained:

Chlorine		
	Free Chlorine (ppm)	Total Chlorine
a.	0	0
b.	0	0
c.	0.20	1.06
d.	0	0

Bacteriological:

Total coliforms/100ml (recommended limit 100/100ml)

a.	0
b.	0
c.	0
d.	Too numerous to count.

Further analysis of sample d:

	Level in sample	Maximum Recommended level
Sulphates (mg/ml)	75	400
Nitrates (mg/ml)	0.9	45
Nitrites (mg/ml)	0.144	45

CONCLUSION

4. Ethiobatt drinking water comes from the treatment plant at Cyangugu and is then distributed to the Coy and PI locations. Chlorine levels in treated water decrease with time, especially in warm weather. The chlorine levels in all samples tested were too low to kill harmful organisms. All the samples tested were of good quality and fit for drinking, except the sample obtained from the bladder at the Log Coy. Additional chemical analysis of this sample revealed no further problems.

5. Contamination is most likely present in the bladder or entering the water when the bladder is filled (for example, if the pipe connection was to rest on the ground before being connected to the bladder). Drinking the water from this bladder is likely to cause intestinal illnesses leading to diarrhoea or vomiting.

RECOMMENDATIONS

5. It is recommended that the water in the bladder at Ethiobatt Log Coy be emptied completely then refilled and hand chlorinated to maintain a chlorine level of at least 2 ppm. This would entail placing 7g (1 tablespoon) of sodium hypochlorite or calcium hypochlorite per 1000 litres of water into the bladder daily. An initial dose of twice this amount should destroy any residual contamination.

Filling of the bladder should be assessed to determine if handling practices are allowing contamination of the water.

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ENVIRONMENTAL HEALTH SECTION
AUSMED

7 June 95