

## FILE FOLDER

### DESCRIPTION ON TAB:

Problem: Tarawa Terrace

Swimming Pool

- Outside/inside of actual folder did not contain hand written information**
- Outside/inside of actual folder did contain hand written information**  
**\*Scanned as next image**

LAB EXPERIMENT

AGAIN  
BUT ALSO DO  
CHLORIDES  
BEFORE + AFTER

ST. TAP H<sub>2</sub>O

Free 1.0  
Total 0.8  
pH 8.1

Addition HCl

Free 2.5  
total 3.6  
pH 11.8

addition NaOH

pH 13.0  
Total 0.0  
Free 0.0

TAP H<sub>2</sub>O

TT Pool

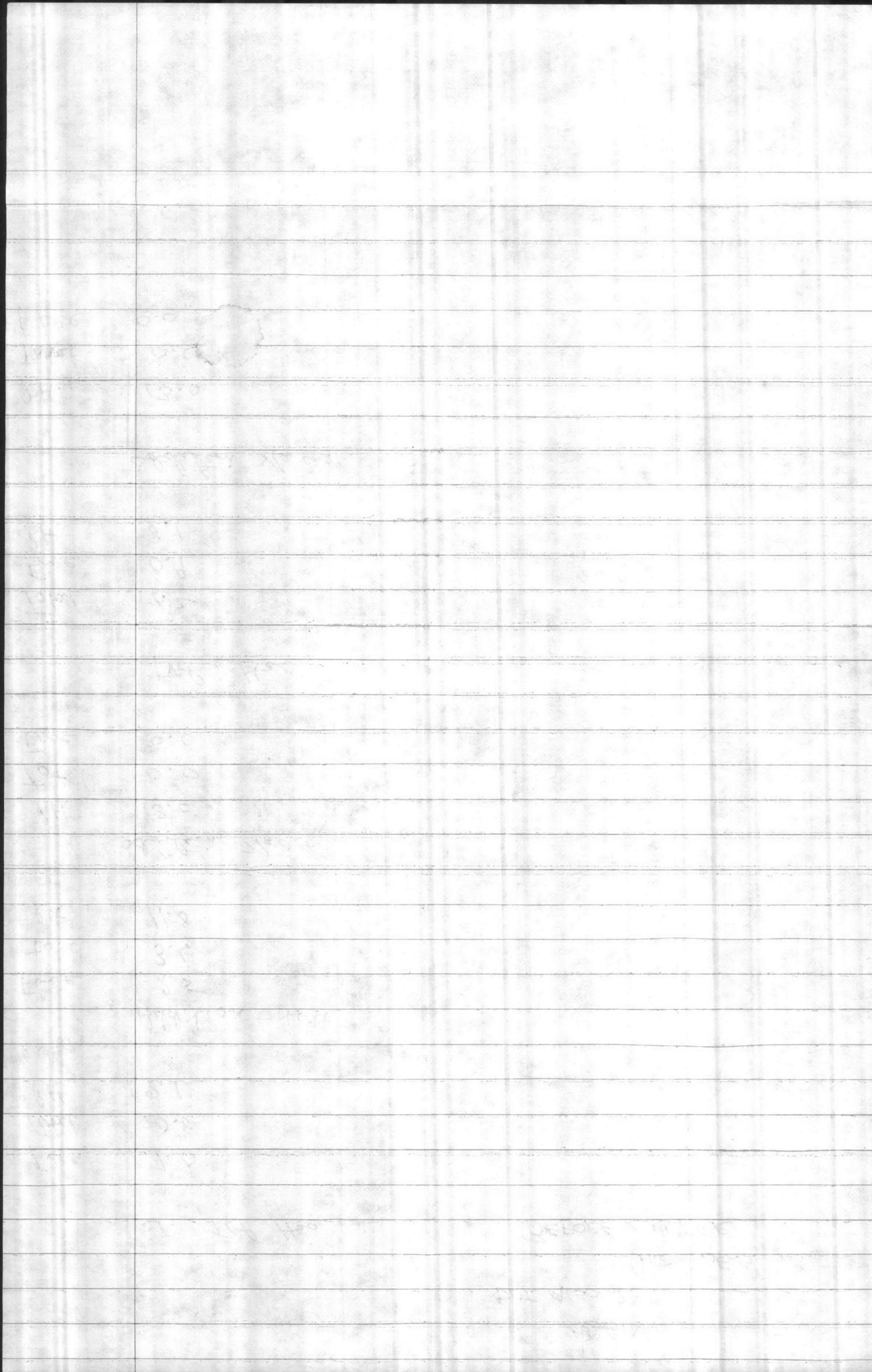
Total 1.2  
Free 0.9  
pH 8.1  
Cl

1.8  
1.8  
4.2  
280

addition NaOH

pH 13.0  
Total 0.0  
Free 0.0

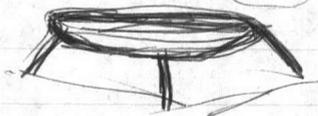
13.1  
0.0  
0.0

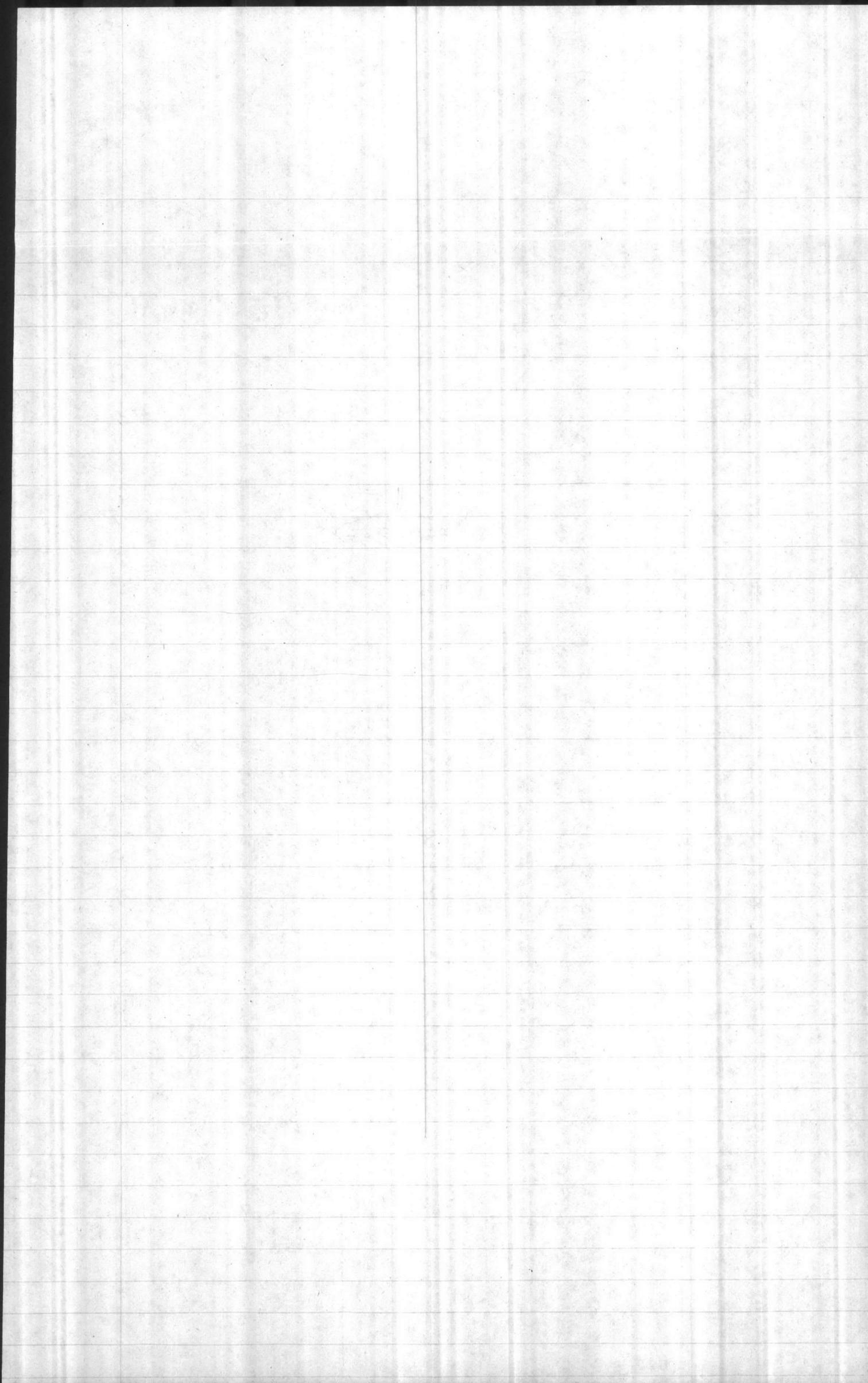


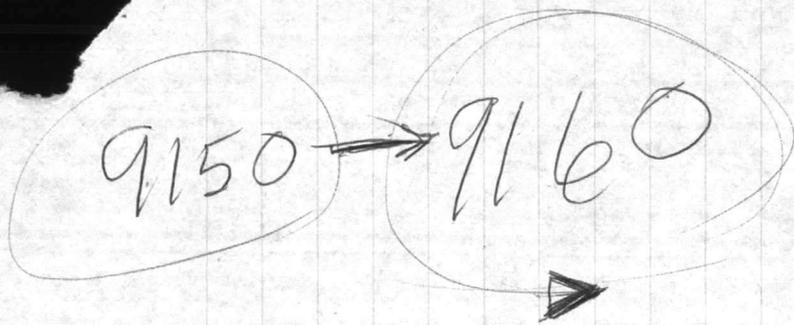
D. E = DEEP END

# SUMMARY

	TOTAL			
	COIFORM	NON-COIFORM	Cl <sub>2</sub>	pH
2 AUG (AM) 0930	0	NUMEROUS	0.3	7.3
9 AUG 1030	0	0	1.0	7.0
16 AUG 0955	TNTC		0.3	7.3
17 AUG @ 0925 D.E	0	0	0.5	7.2
5 1/2' LADDER	1	0	0.2	
PMU {	@ 0950 6' LADDER	0	0	0.5
	@ 0953 SHALLOW	0	0	0.5
	@ 0955 D.E.	0	0	0.2
18 AUG <del>0830</del> 0815	3	0	1.3	7.3
19 AUG 1125	840	0	0.5	
20 AUG 1030	3	0	1.3	
1043 D.E.	0	0	1.5	6.8
1044 SHALLOW	0	0	1.5	6.8
21 AUG 0815 SHALLOW	0	0	2.0+	
0816 D.E.	0	0	2.0+	
22 AUG 0910 D.E.	0	0	2.0+	6.8
0915 SHALLOW	0	0	2.0+	6.8
1050 D.E.	1	NUMEROUS	2.0+	6.8
1050 SHALLOW	0	0	2.0+	6.8
23 AUG 0935 SHALLOW	61	KPN	2.0	6.8
0930 D.E.	90	MPN	2.0	7.0







DR. CRAIG SMITH  
733-3410

STATE HEALTH EPID.  
DEPT.

LARRY. BUNN  
727-2032

FORSTH Co. HEALTH

120  
2/30  

---

250  
22  

---

272

DR. J. B. WILSON, JR. STATE HEALTH DEPT.

1000 ...

1000 ...

CHLORINE

DEEP ~~2.0~~ - 2.0 SHALLOW 2.0

PH  
DEEP - 6.8 SHALLOW - 6.8

AUG.  
DATE # PEOPLE

16 449

17 628

18 676

19 653

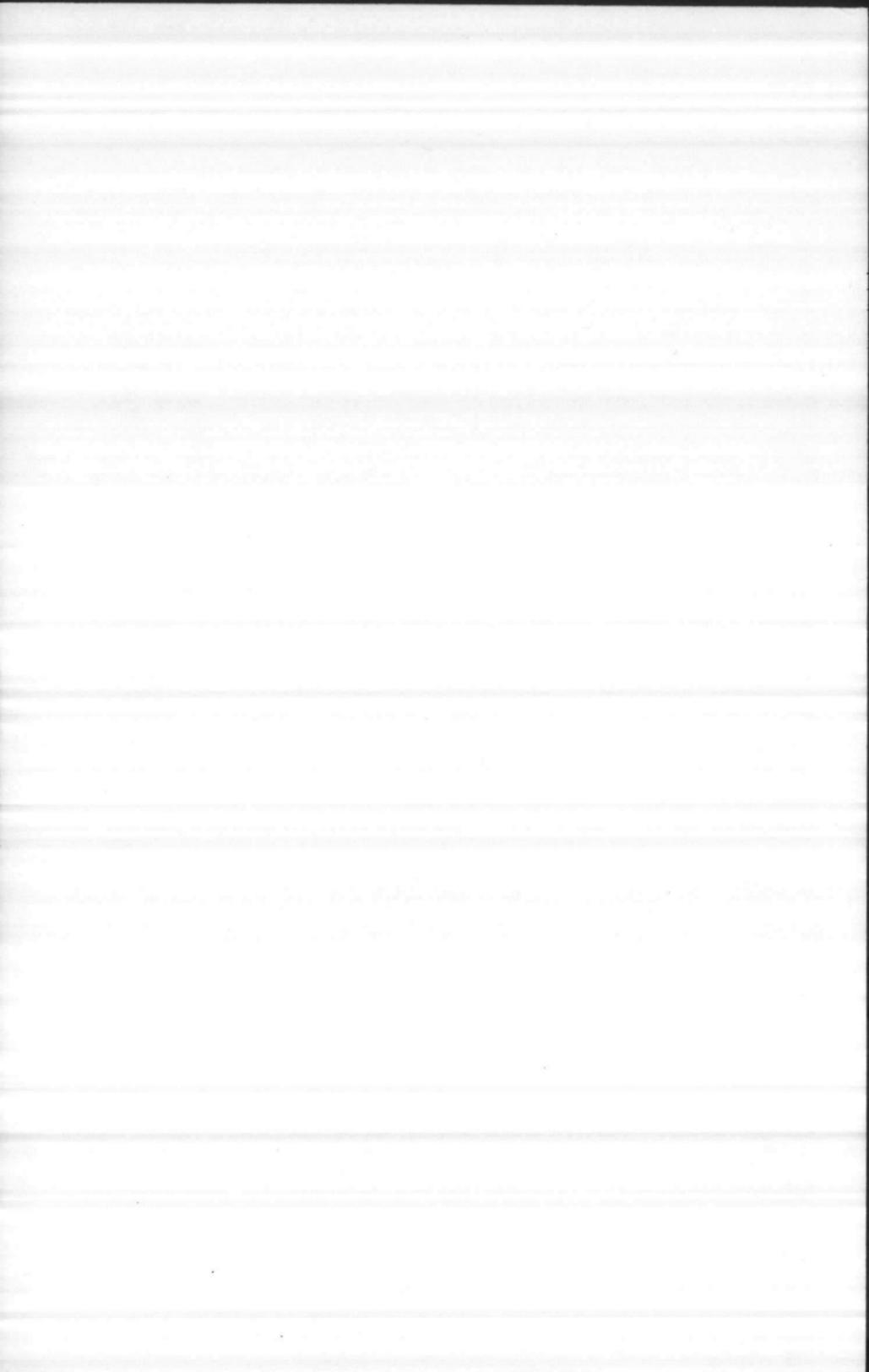
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21 1151

22 677

23

0700 6.8 1.4



30 AUG 83

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		Ø	1.2		0830
FC-19		Ø	0.7		0954
SH-8		Closed for Insp			
TT POOL		Ø	0.7	7.5	0930
M.P. POOL			0.6	7.6	1030
#2 POOL			0.6	6.8	1040
#5 POOL			0.6	7.4	1004
P. P. POOL			0.7	7.3	1052
P. P. BABY POOL			0.7	7.3	1056
MCAS E-POOL			1.2	7.3	0830
MCAS O-POOL			Ø	0.7	7.3
MCAS BABY POOL					

REMARKS

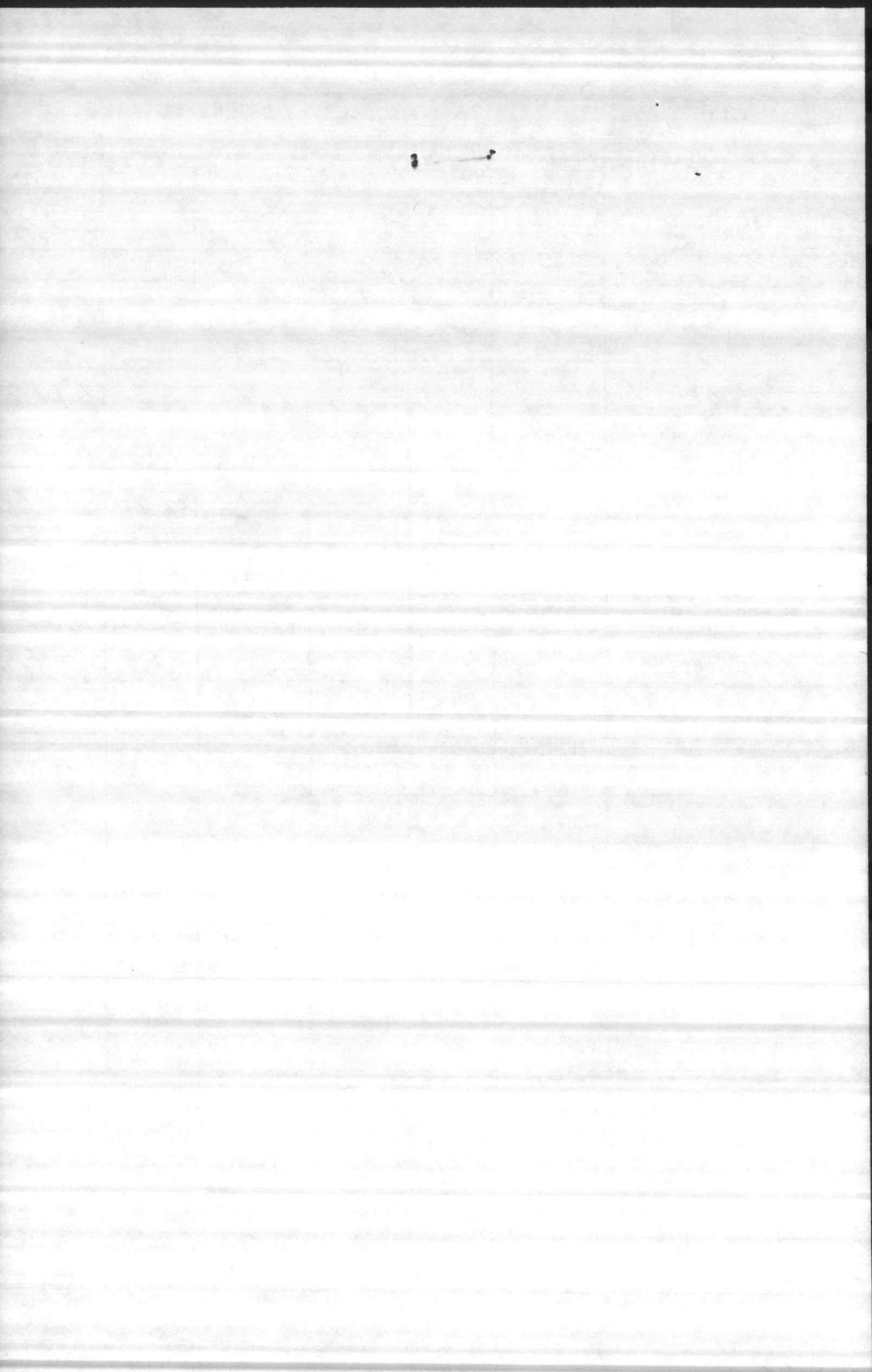
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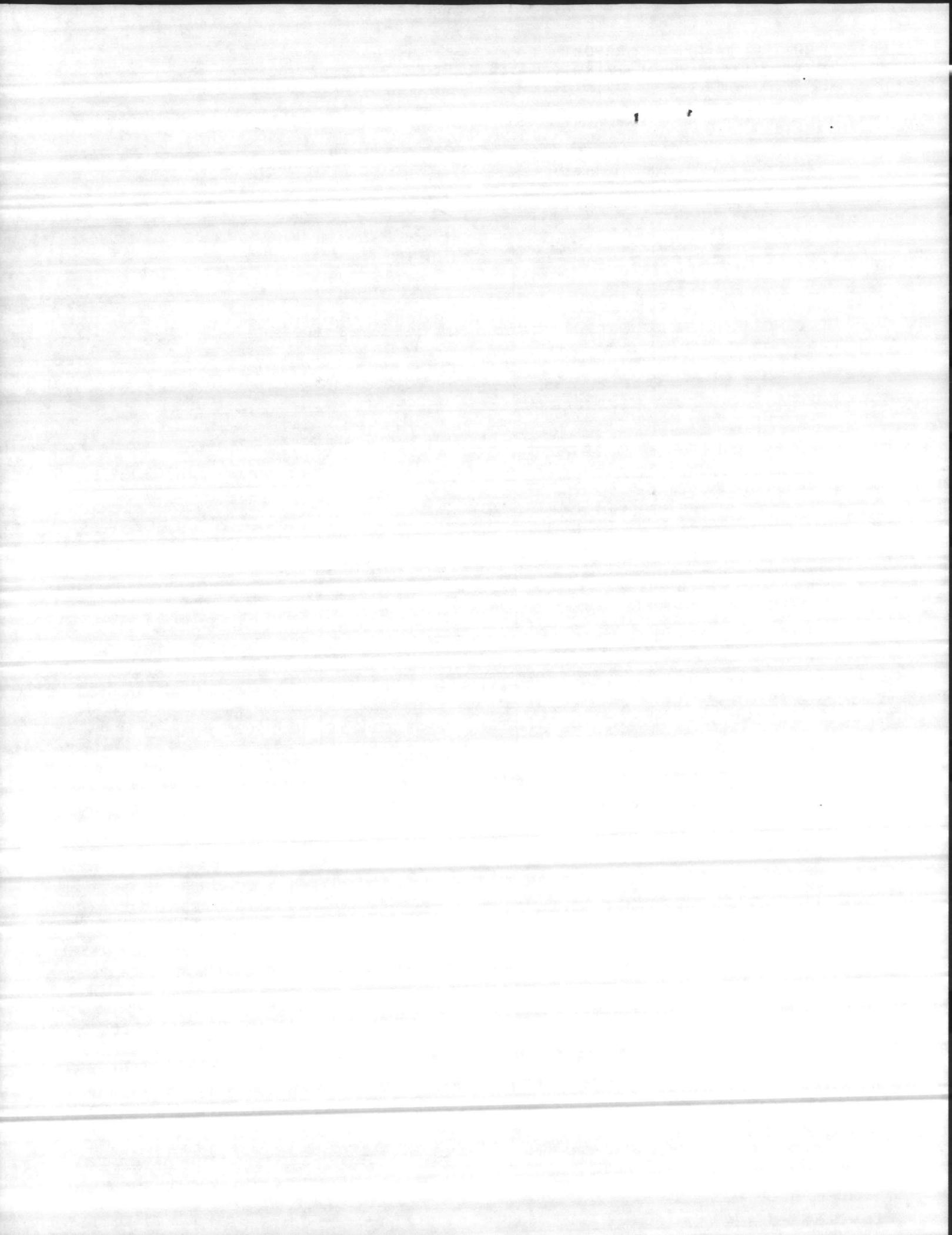
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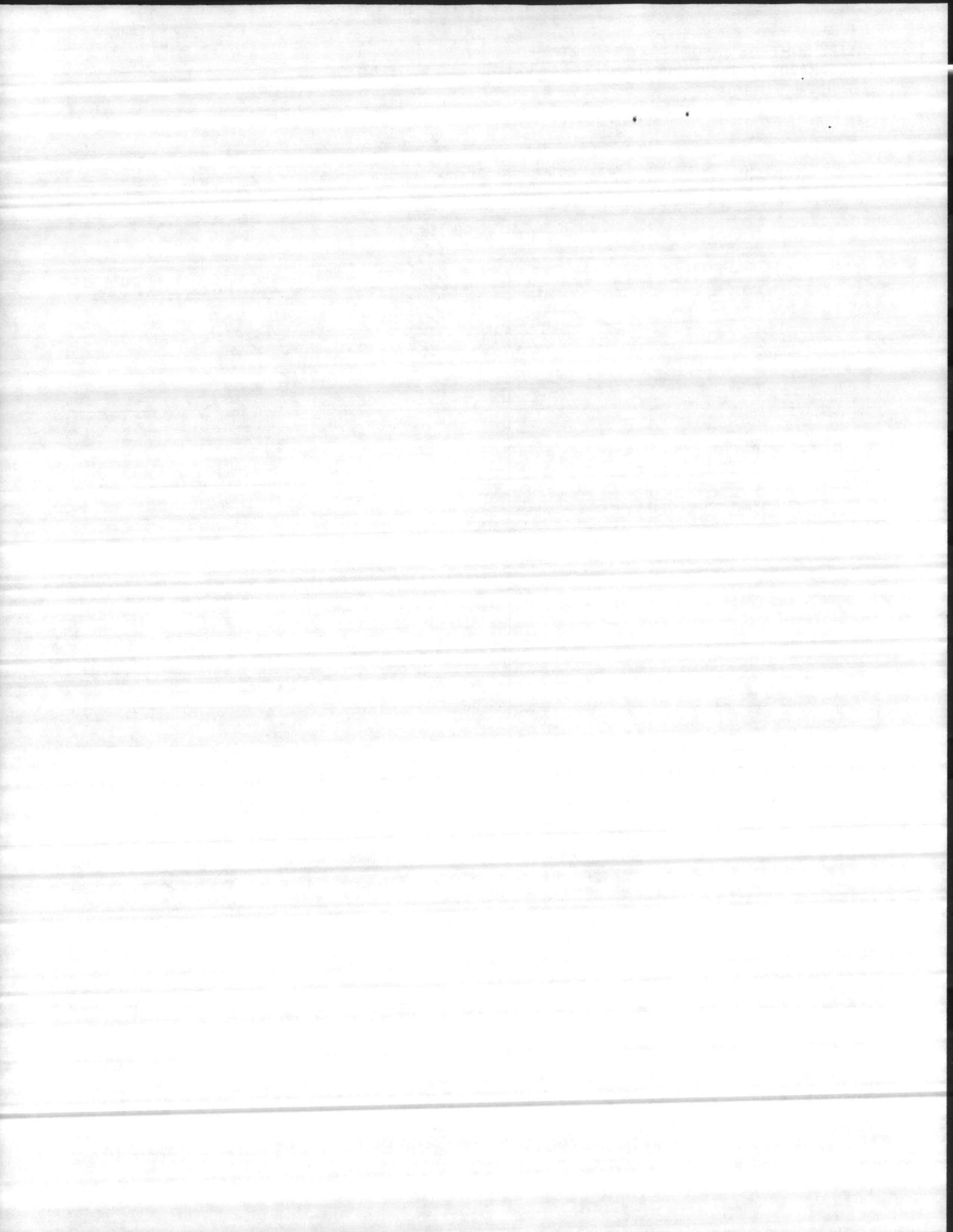
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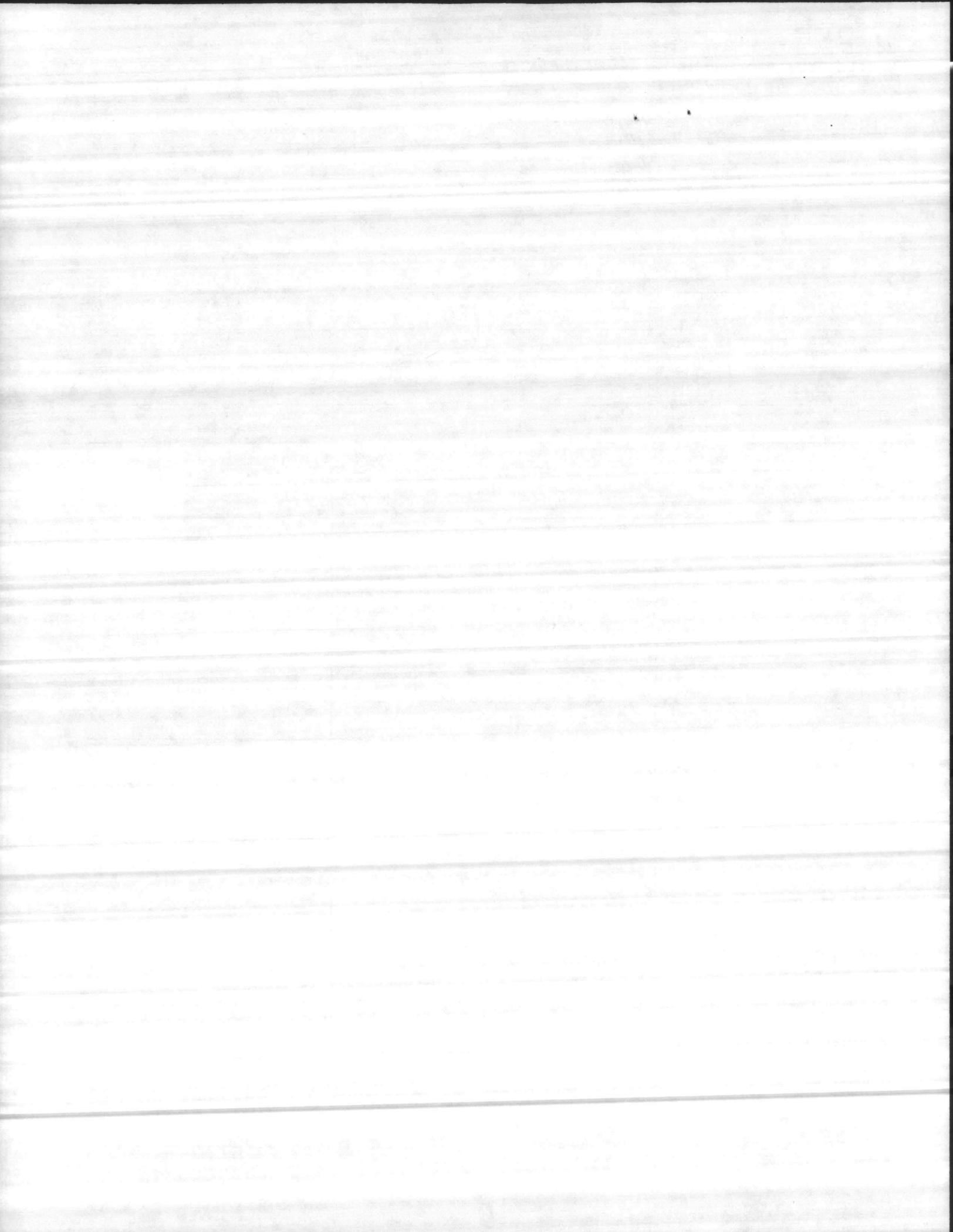




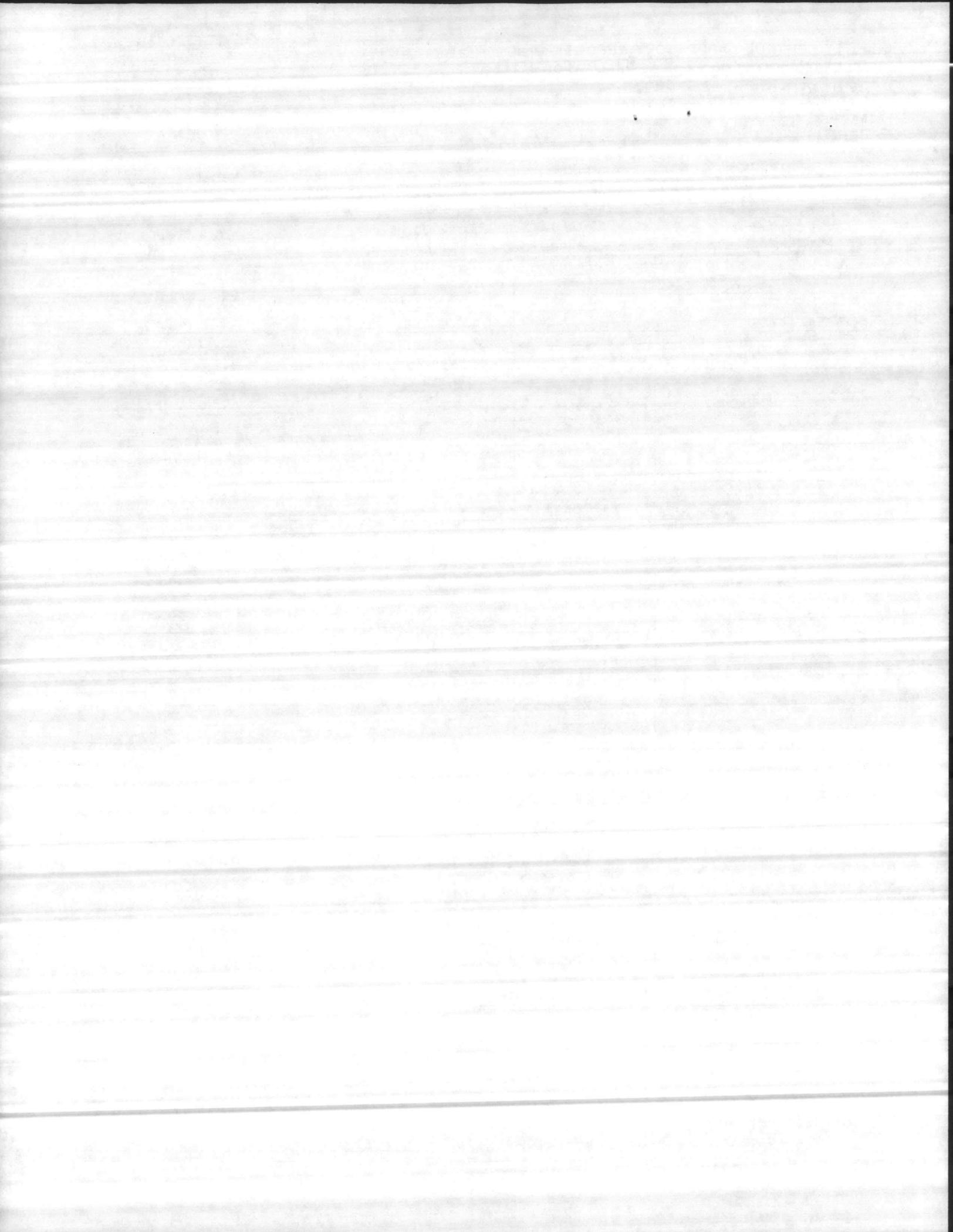




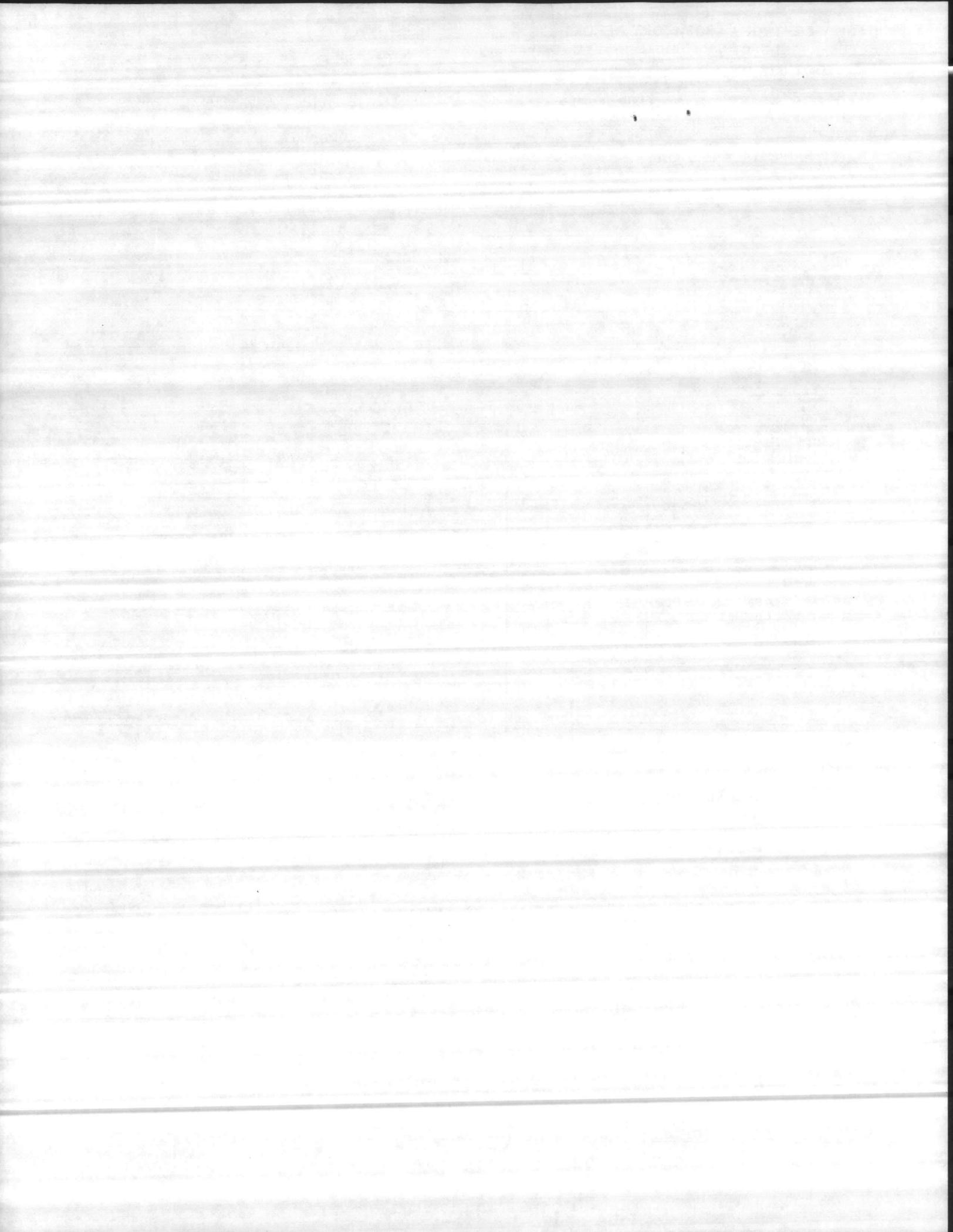




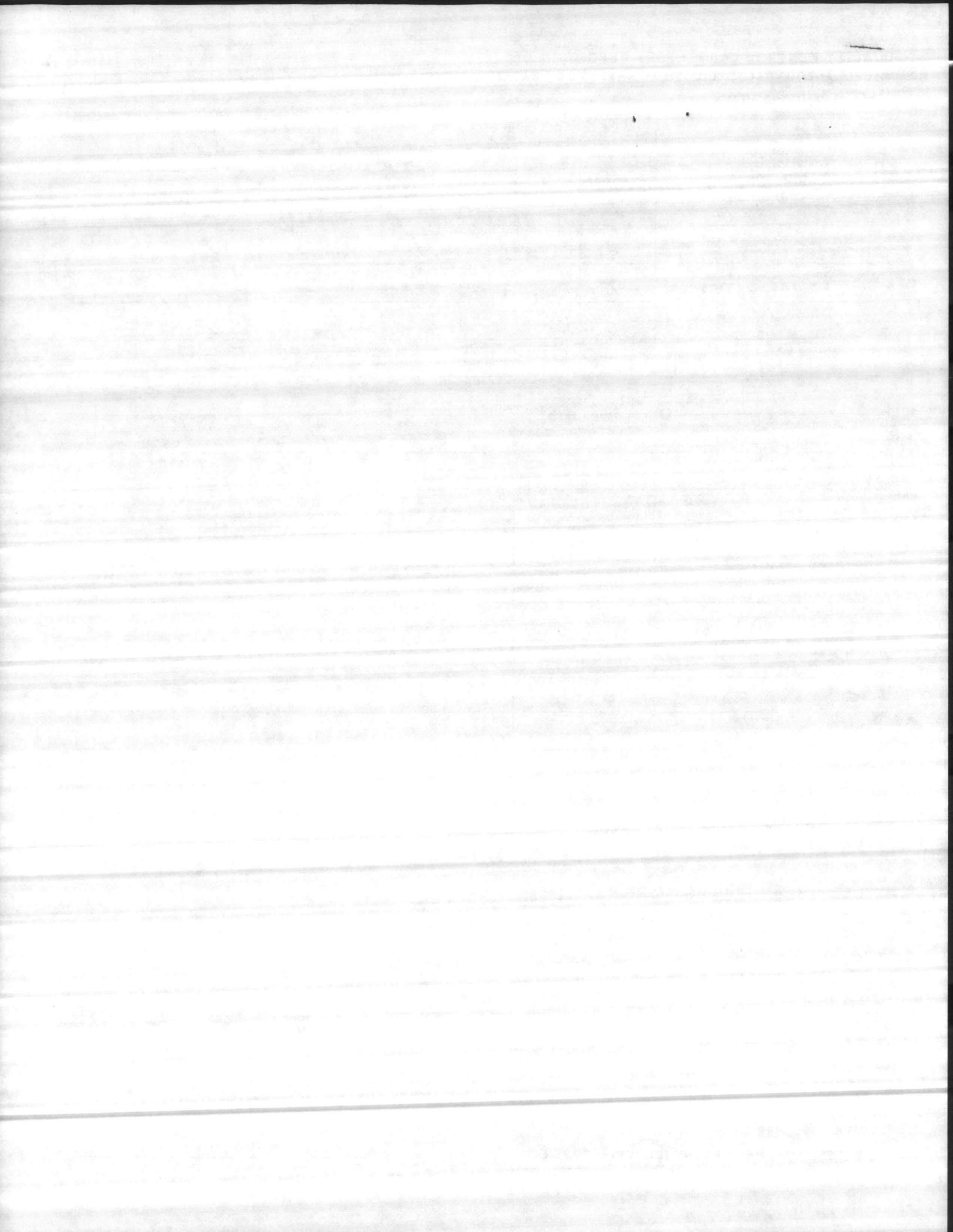




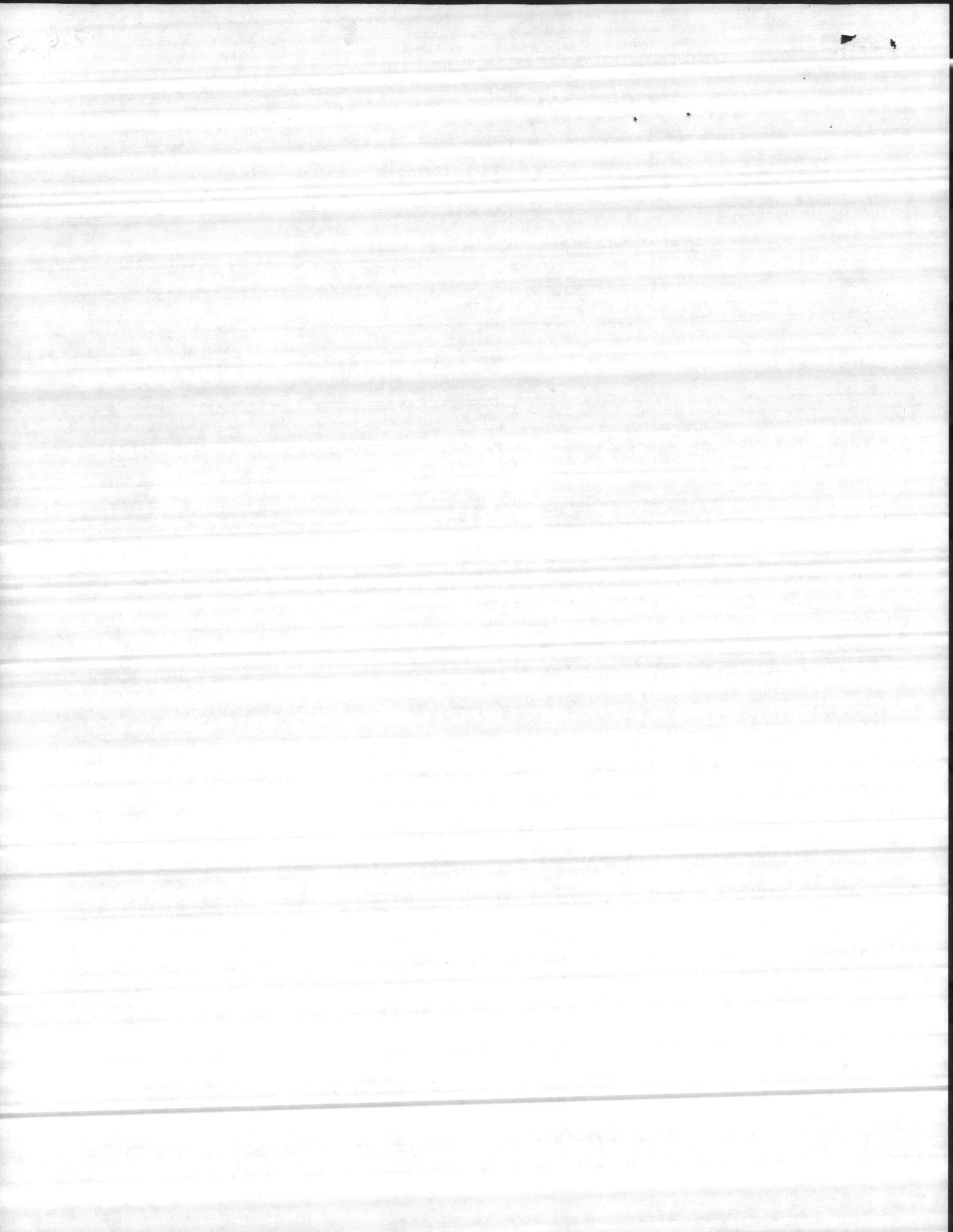














18  
15  
13

11

ACCES. NO. E-2  
 DATE IN \_\_\_\_\_  
 DATE OUT \_\_\_\_\_  
 TECH'S INITIALS 2

STAIN RESULTS:

ORG ISOLATED	ORGANISM	% ORG/COLONY CT.
1. <u>12</u>		
2. <u>29</u>	<u>Many</u>	
3.	<u>Many</u>	
4.		

ORGANISM CODE		
01. NO GROWTH	13. ENTEROBACTER	25. NON-FERM. GNR
02. NORMAL FLORA	14. P. AERUGINOSA	26. GRP. D STREP - NOT ENT
03. STAPH COAG. POS.	15. INDOLE (+) PROTEUS	27. MIXED FLORA
04. STAPH COAG. NEG.	16. INDOLE (-) PROTEUS	28. LACTOBACILLUS
05. GRP. A STREP	17. CITROBACTER	29. <u>Moraxella</u>
06. GRP. B STREP	18. SERRATIA	30.
07. ENTEROCOCCUS	19. SALMONELLA	31.
08. S. PNEUMONIAE	20. SHIGELLA	32.
09. N. GONORRHOEAE	21. H. INFLUENZAE	33.
10. N. MENINGITIDIS	22. HAEMOPHILUS SPS	34.
11. E. COLI	23. AC. ANTITRATUS (H)	35.
12. <u>KLEBSIELLA pneumoniae</u>	24. <u>HOFFI (M)</u>	36.

FOR LAB USE ONLY

TEST Culture for ID  
 SOURCE T.T. Pool  
 DATE COLLECTED 8/23/63  
 DX \_\_\_\_\_  
 ANTIBIOTICS \_\_\_\_\_  
 PHYSICIAN \_\_\_\_\_

WARD \_\_\_\_\_

PATIENT'S NAME Water Sample from TT outdoor swimming Pool shallow End

XX ANTIMICROBIAL SENSITIVITIES	S	I	R	S	I	R	S	I	R
GRAM POSITIVE									
A AMPICILLIN									
B CHLORAMPHENICOL									
C ERYTHROMYCIN									
D GENTAMYCIN									
E CEPHALOTHIN									
F CLINDAMYCIN									
G METHICILLIN									
H PENICILLIN - G									
I TETRACYCLINE									
J VANCOMYCIN									
K NITROFURANTOIN									
L SULFONAMIDES									
M SXT									
Q CEFOXTIN									
GRAM NEGATIVE									
A AMPICILLIN									
N CARBENICILLIN									
B CHLORAMPHENICOL									
E CEPHALOTHIN									
I TETRACYCLINE									
D GENTAMYCIN									
O TOBRAMYCIN									
P AMIKACIN									
K NITROFURANTOIN									
L SULFONAMIDES									
M SXT									
N NALIDIXIC ACID									
Q CEFOXTIN									

LAB SENT TO: SACTI NAV HALL  
 DATE SENT: 8/23/63 RECD \_\_\_\_\_  
 RESULTS: \_\_\_\_\_

REFERENCE

REMARKS: OUR RESULTS TO RETURN TO CIVIC BLDG 615 AT 10:15 AM - AUGUST

**BACTERIOLOGY INFECTION SURVEILLANCE**  
 NRMIC CLNC 65 10/2 (REV. 10/82)

FOR DATA PROCESSING USE ONLY

ACCESS. # \_\_\_\_\_ ISOLATE CODE \_\_\_\_\_  
 SPECIMAN CODE \_\_\_\_\_ WARD CODE \_\_\_\_\_

DATA PROCESSING COPY

11

11/11/11

11/11/11

11/11/11

11/11/11

ACCES. NO. E-1  
 DATE IN \_\_\_\_\_  
 DATE OUT \_\_\_\_\_  
 TECH'S INITIALS  
 1. \_\_\_\_\_  
 2. \_\_\_\_\_

**STAIN RESULTS:**

ORG ISOLATED	ORGANISM	% ORG/COLONY CT.
1. <u>12</u>	<u>Manny</u>	
2. <u>14</u>	<u>Manny</u>	
3. _____		
4. _____		

**ORGANISM CODE**

01. NO GROWTH	13. ENTEROBACTER	25. NON-FERM. GNR
02. NORMAL FLORA	14. P. AERUGINOSA <u>Pseudomonas</u>	26. GRP. D STREP-NOT ENT
03. STAPH COAG. POS.	15. INDOLE (+) PROTEUS	27. MIXED FLORA
04. STAPH COAG. NEG.	16. INDOLE (-) PROTEUS	28. LACTOBACILLUS
05. GRP. A STREP	17. CITROBACTER	29. _____
06. GRP. B STREP	18. SERRATIA	30. _____
07. ENTEROCOCCUS	19. SALMONELLA	31. _____
08. S. PNEUMONIAE	20. SHIGELLA	32. _____
09. N. GONORRHOEAE	21. H. INFLUENZAE	33. _____
10. N. MENINGITIDIS	22. HAEMOPHILUS SPS	34. _____
11. E. COLI	23. AC. ANTITRATUS (H)	35. _____
12. KLEBSIELLA <u>Pneumoniae</u>	24. AC. LWOFFI (M)	36. _____

TEST Culture for ID  
 SOURCE TT Pool  
 DATE COLLECTED 8/23/63  
 DX \_\_\_\_\_  
 ANTIBIOTICS \_\_\_\_\_  
 PHYSICIAN \_\_\_\_\_

**XX ANTIMICROBIAL SENSITIVITIES**

GRAM POSITIVE	S	I	R	S	I	R	S	I	R
A AMPICILLIN									
B CHLORAMPHENICOL									
C ERYTHROMYCIN									
D GENTAMYCIN									
E CEPHALOTHIN									
F CLINDAMYCIN									
G METHICILLIN									
H PENICILLIN - G									
I TETRACYCLINE									
J VANCOMYCIN									
K NITROFURANTOIN									
L SULFONAMIDES									
M SXT									
Q CEFOXTIN									

**GRAM NEGATIVE**

A AMPICILLIN									
N CARBENICILLIN									
B CHLORAMPHENICOL									
E CEPHALOTHIN									
I TETRACYCLINE									
D GENTAMYCIN									
O TOBRAMYCIN									
P AMIKACIN									
K NITROFURANTOIN									
L SULFONAMIDES									
M SXT									
N NALIDIXIC ACID									
Q CEFOXTIN									

PATIENT'S NAME Water Sample from TT outdoor Swimming Pool Deer End  
 WARD \_\_\_\_\_

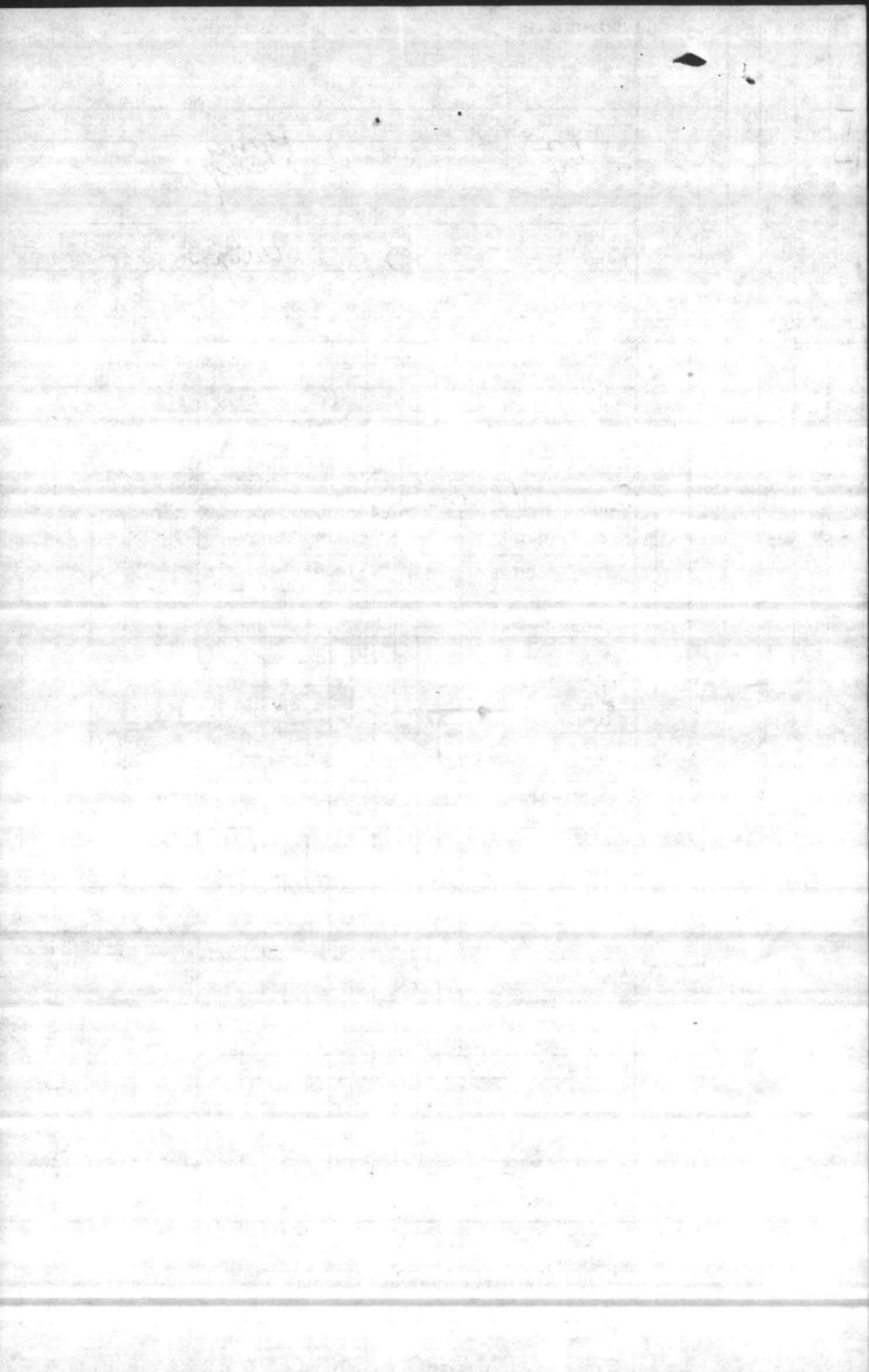
LAB SENT TO: LACTO LAB HOSP  
 DATE SENT: 8-24-63 REC'D \_\_\_\_\_  
 RESULTS: \_\_\_\_\_

REFERENCE \_\_\_\_\_  
 REMARKS: GNR - RETURN RESULTS TO SED CLINIC BLDG. 63 ALSO HMM MANGINE  
**BACTERIOLOGY INFECTION SURVEILLANCE**  
 NRMCLNC 6510/2 (REV. 10/82)

FOR DATA PROCESSING USE ONLY

ACCESS. # \_\_\_\_\_ ISOLATE CODE \_\_\_\_\_  
 SPECIMAN CODE \_\_\_\_\_ WARD CODE \_\_\_\_\_

DATA PROCESSING COPY



23 Aug 83

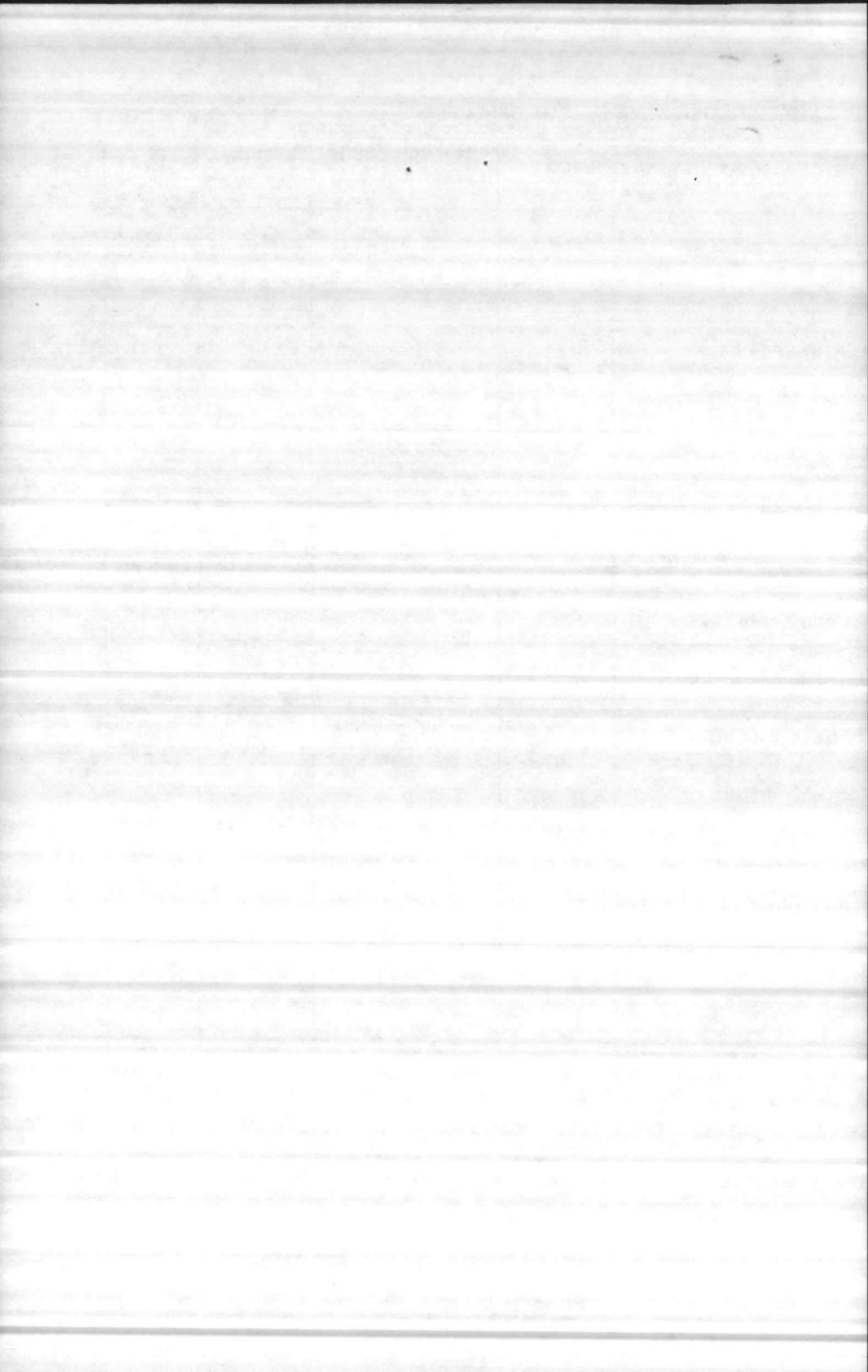
## BACTERIOLOGICAL ANALYSIS OF WATER

## NON-REPORTABLE

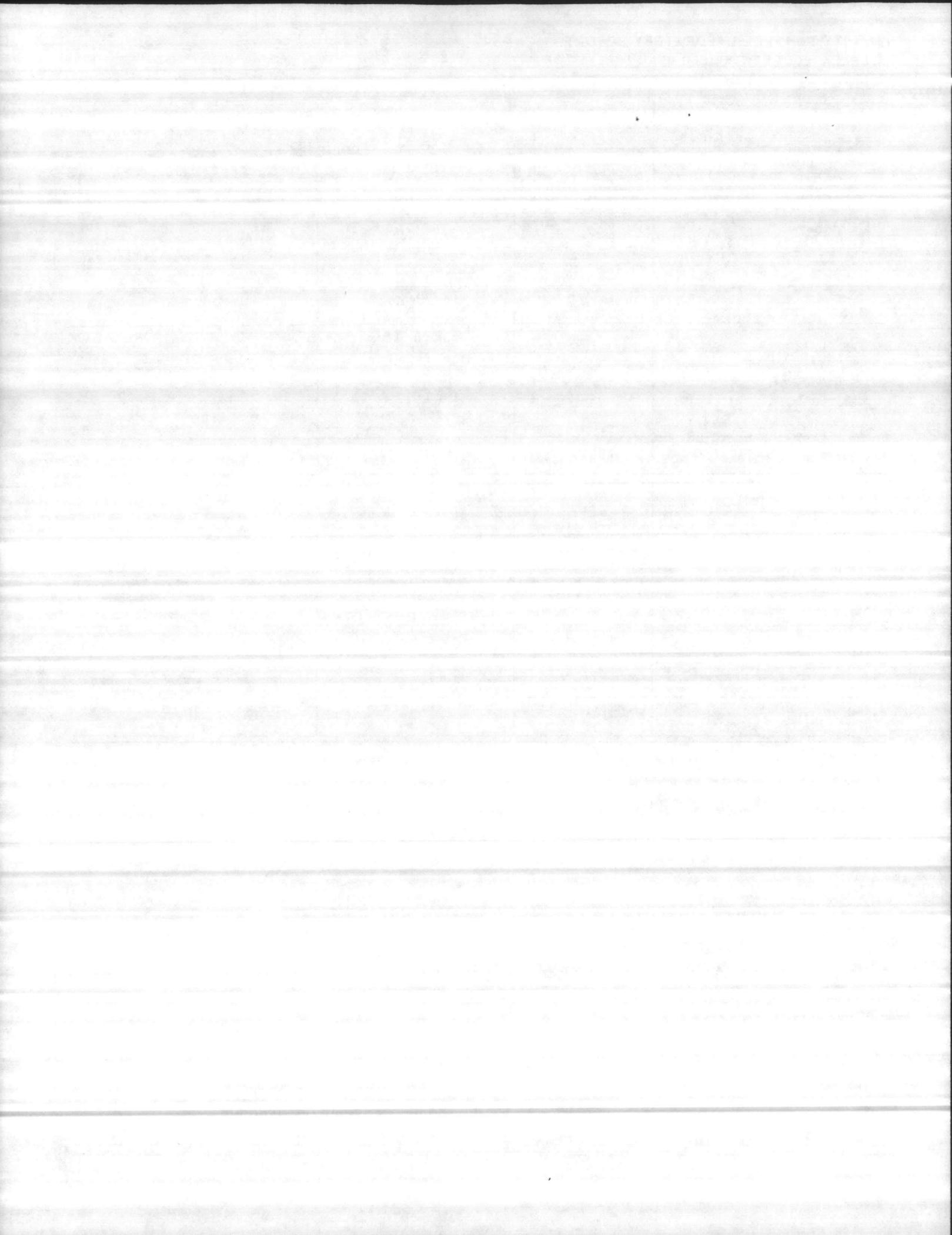
WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		✓	0.6		0720
FC-19		✓	0.7		0755
SH-8		✓	0.8		0745
M.P. POOL		✓	0.2	7.8	1020
#2 POOL		✓	0.6	7.0	1015
#5 POOL		✓	0.7	7.9	0915
P. P. POOL		✓	1.0	7.3	1120
P. P. BABY POOL		✓	1.0	7.3	1123
MCAS E-POOL		✓	1.0	7.2	0830
MCAS O-POOL		✓	3.0 <sup>+</sup>	7.5	0845
MCAS BABY POOL		Secured			
TT Pool		95	2.0	7.0	0930
TT Pool Shallow End		61	2.0	6.8	0935

## REMARKS

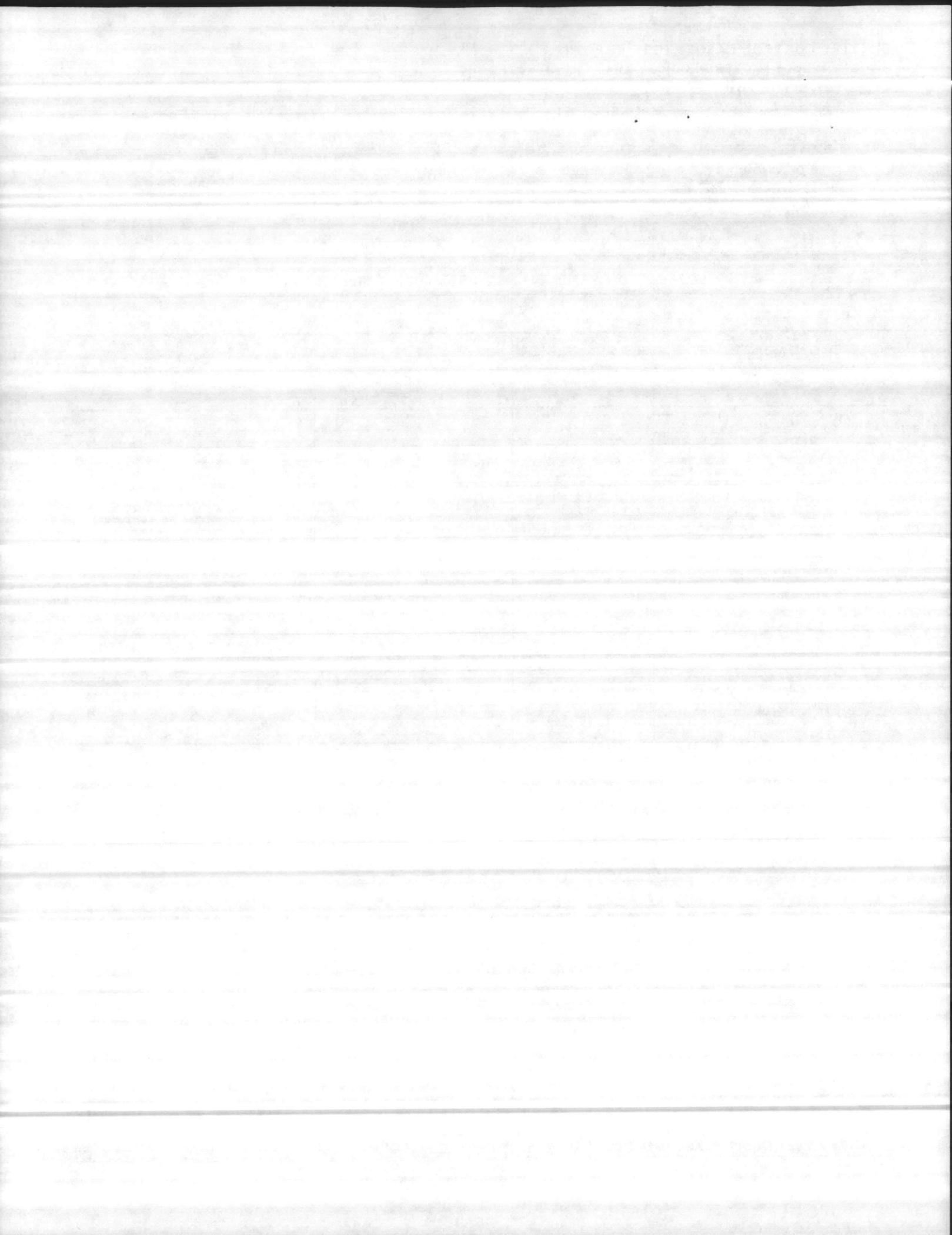
TT Pool Samples have been set up for  
confirmation tests and was resampled on  
24 Aug 83.



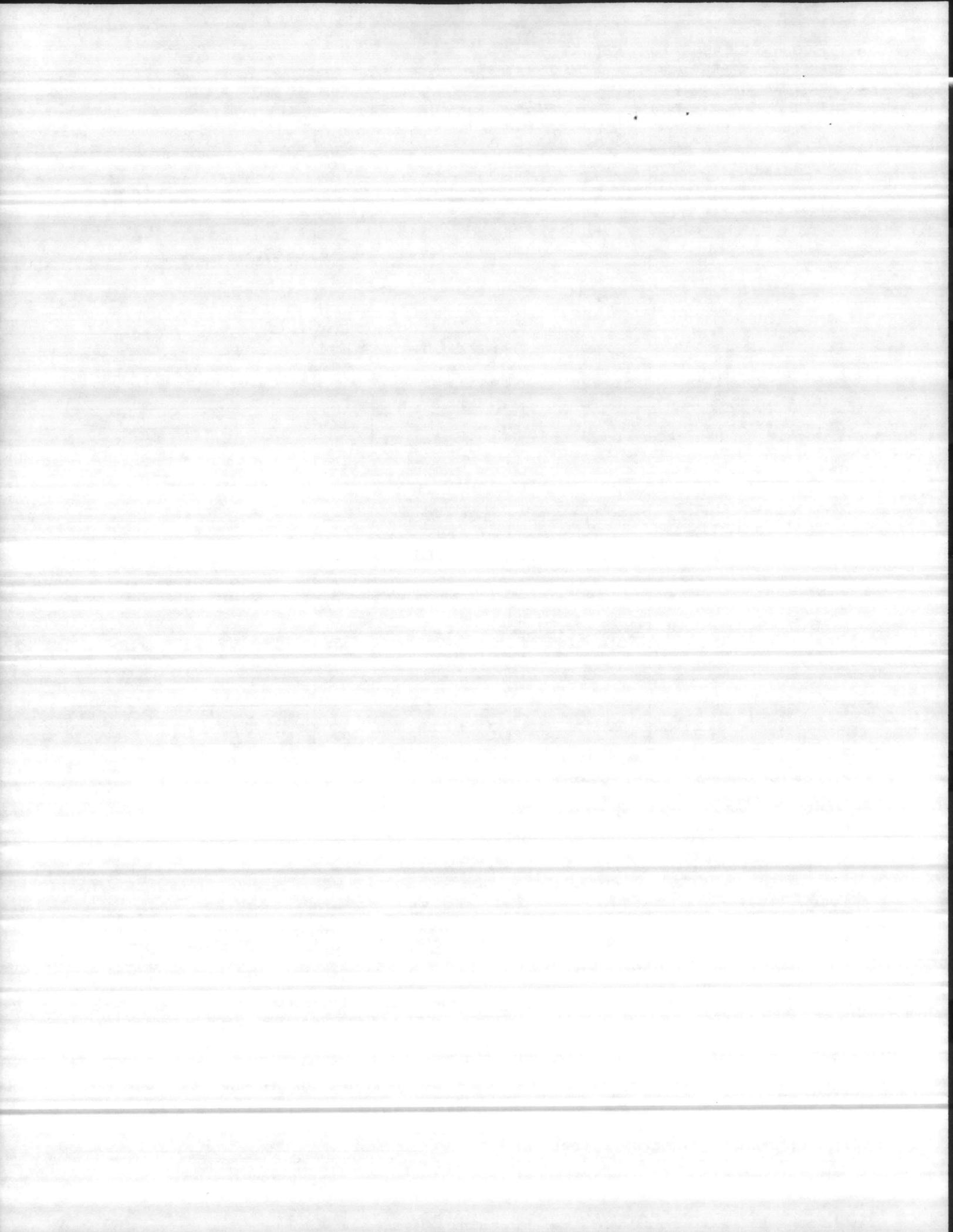




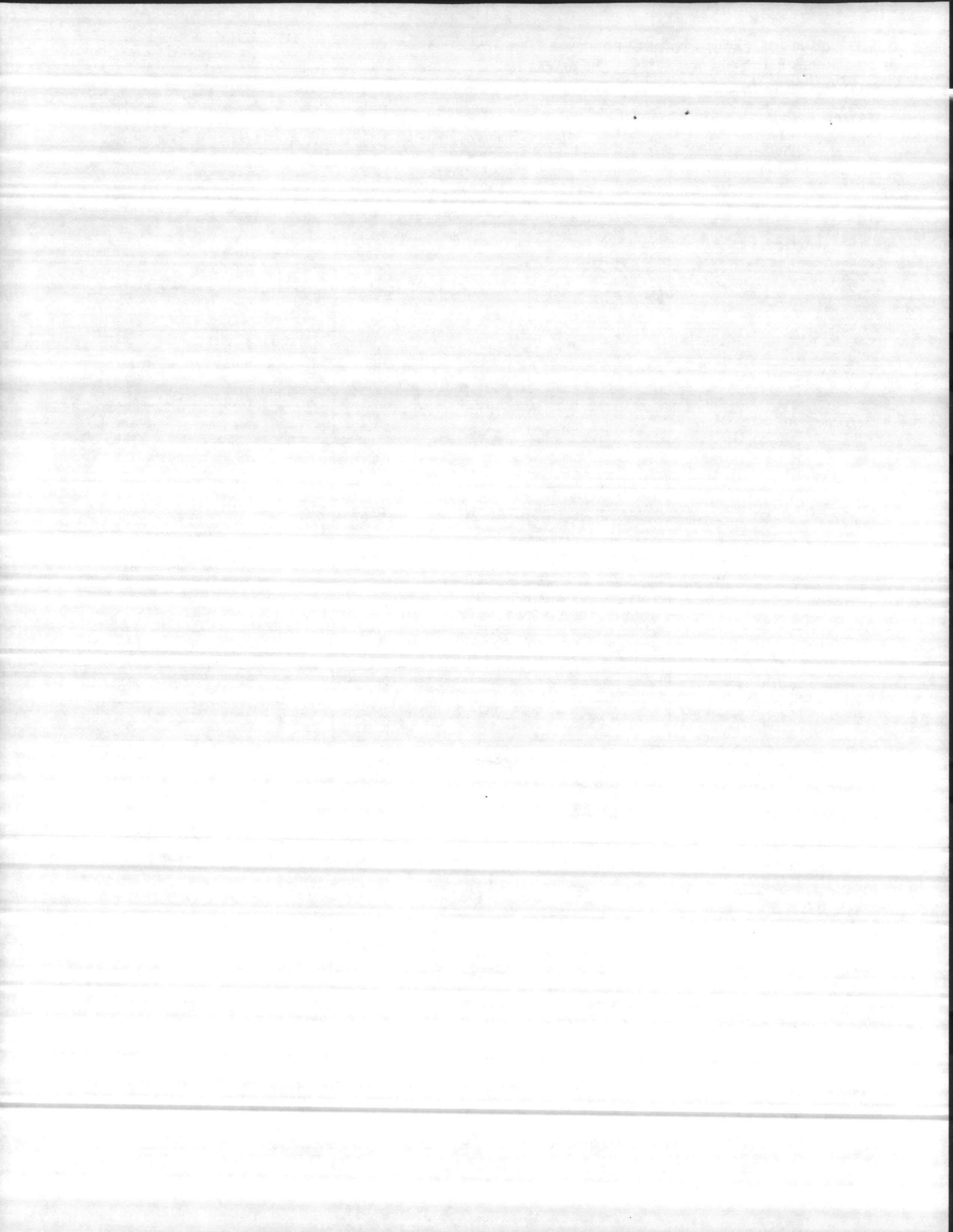




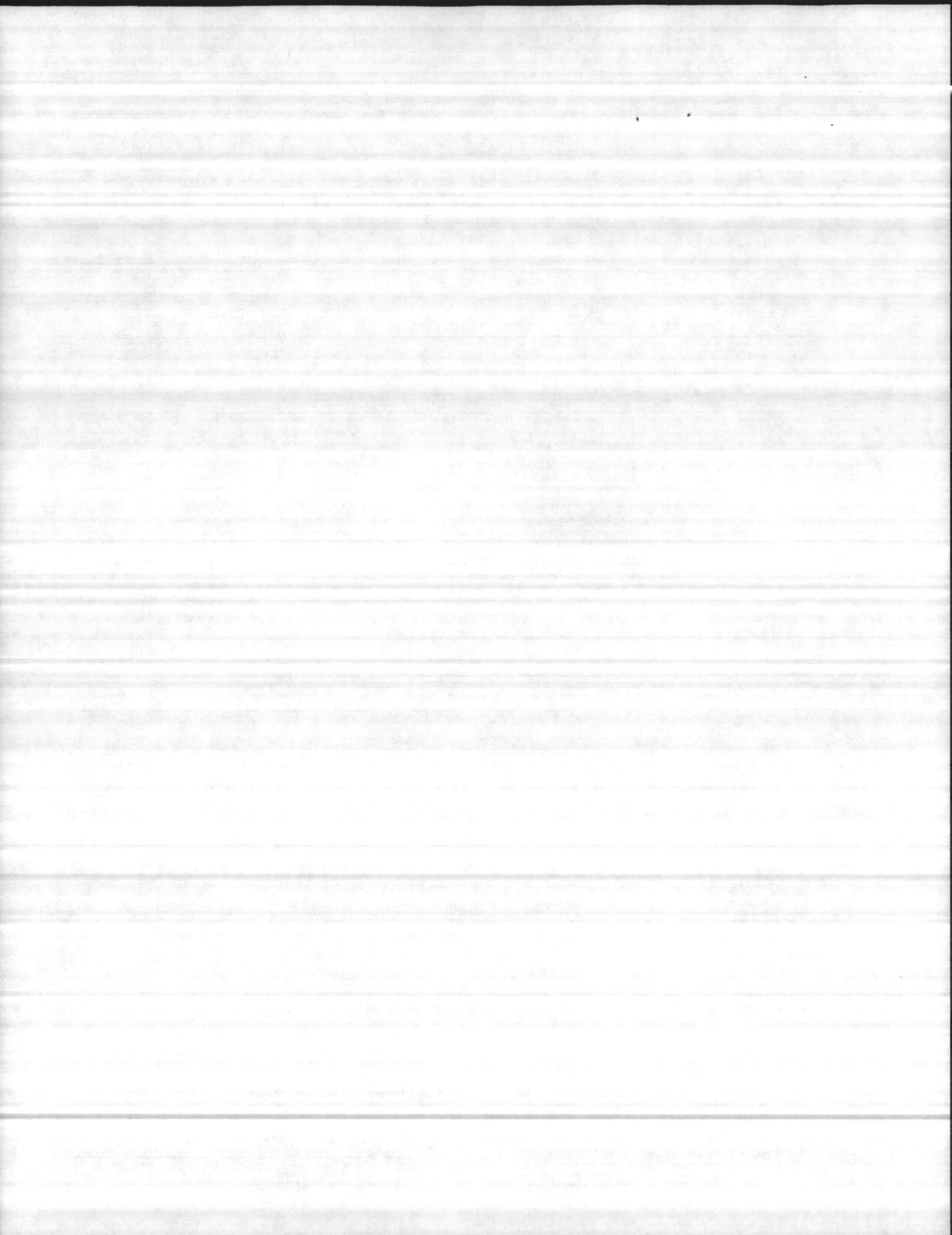




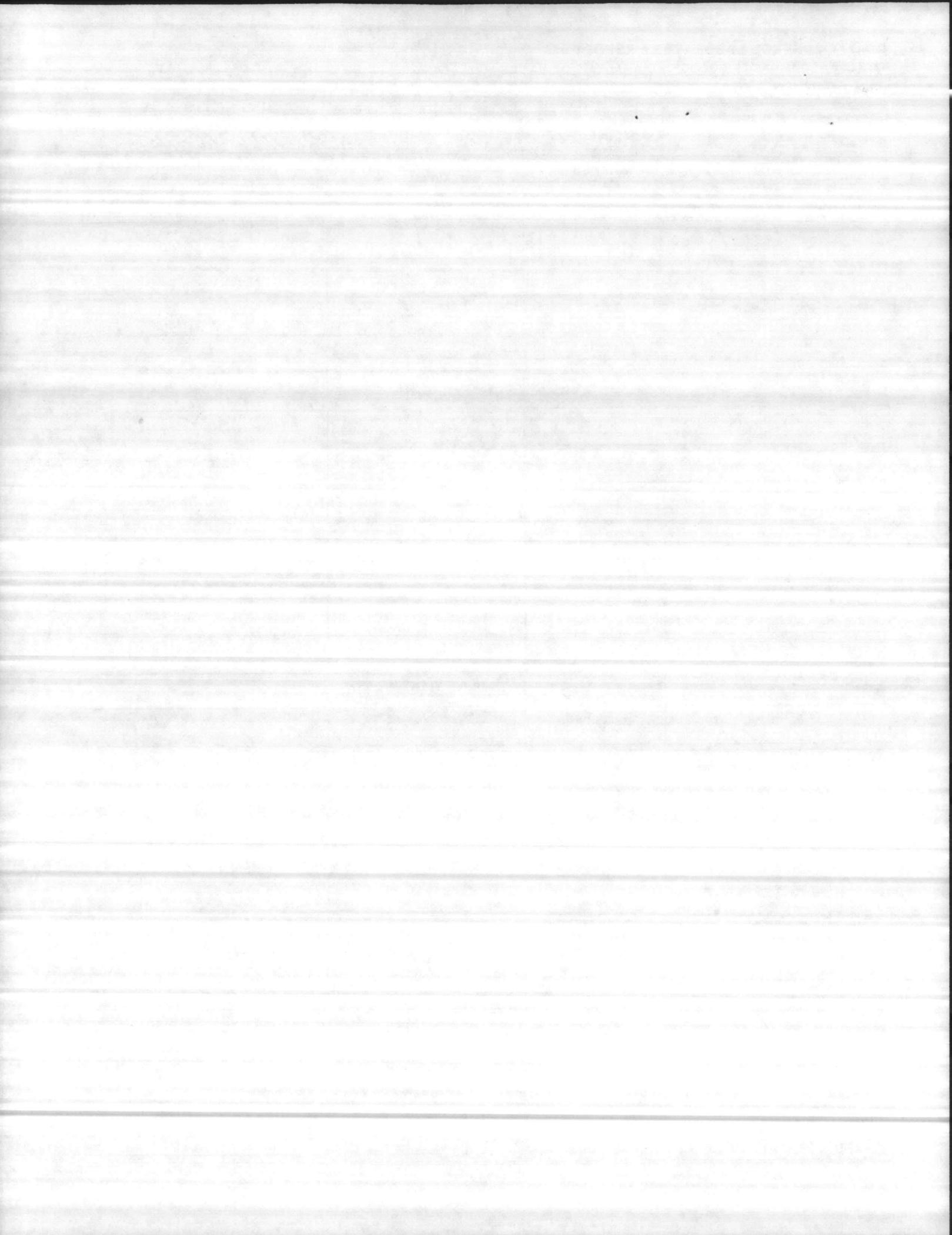




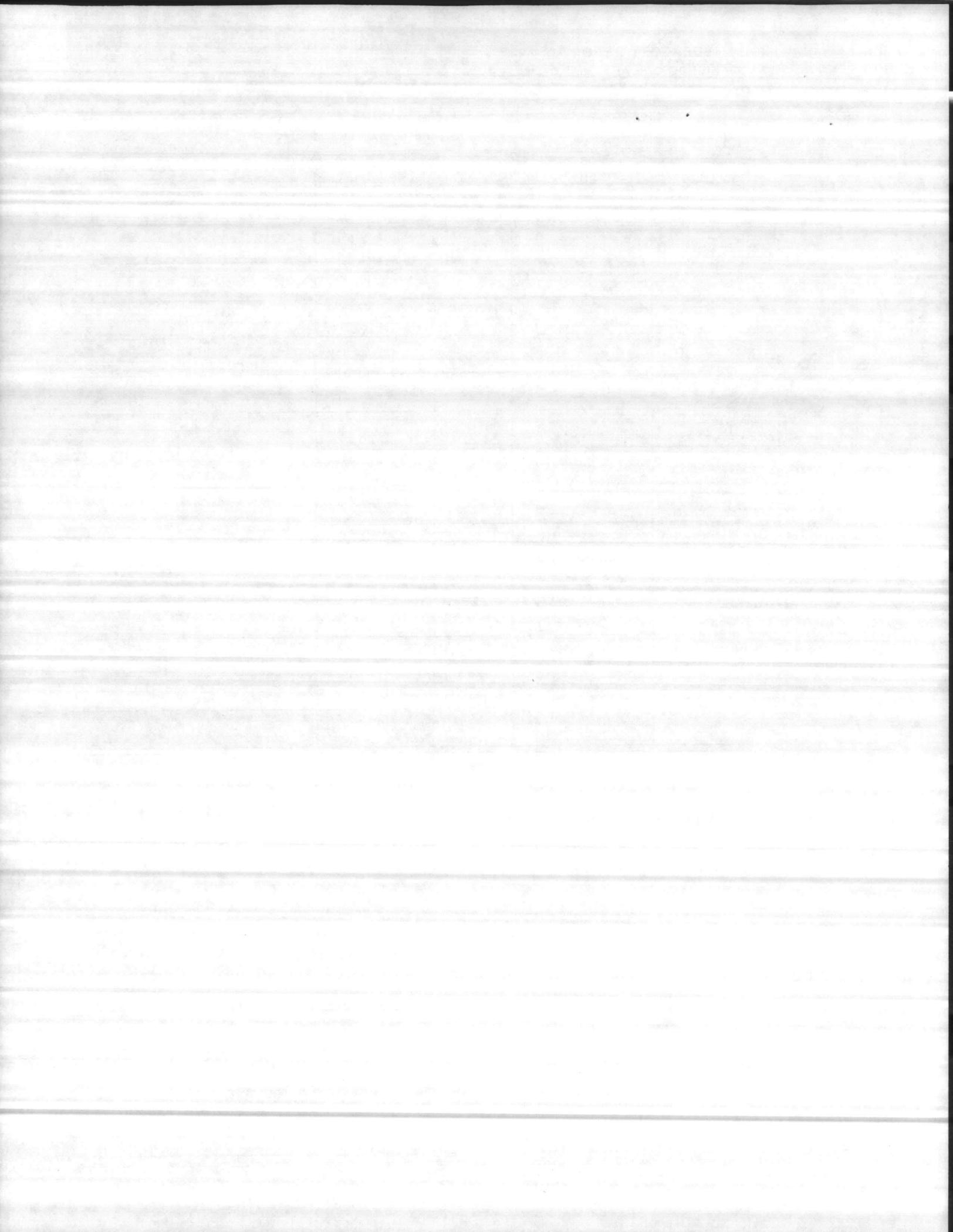




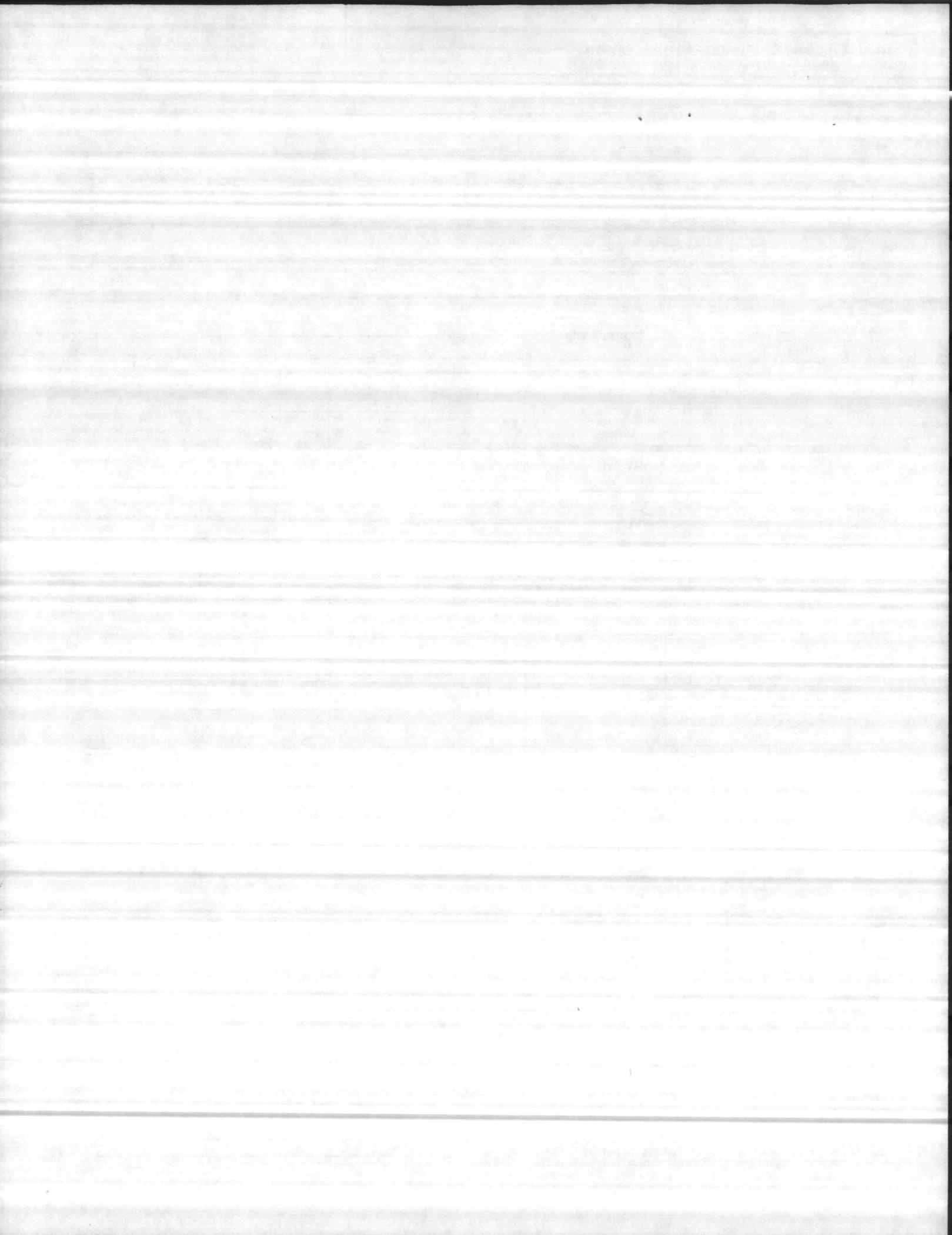












16 Aug 83

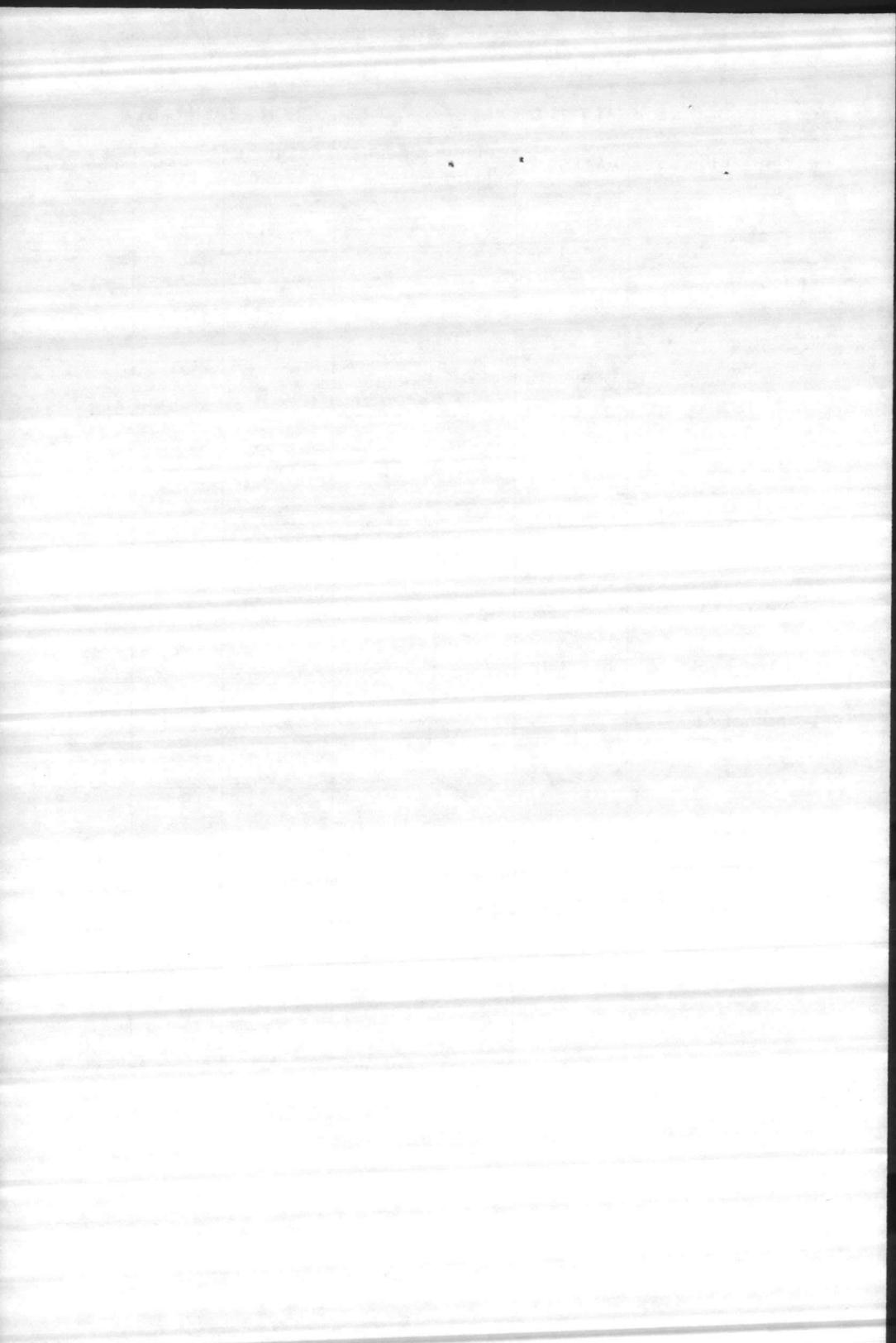
## BACTERIOLOGICAL ANALYSIS OF WATER

## NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME	
BB-97		✓	0.4		0825	
FC-19			0.7		1012	
SH-8			0.6		1000	
TT Pool			TNTC	0.3	7.3	0755
M.P. POOL			✓	0.7	7.2	1115
#2 POOL				0.6	7.4	0916
#5 POOL				0.7	7.6	1015
P. P. POOL				0.6	7.5	1030
P. P. BABY POOL				0.6	7.3	1040
MCAS E-POOL				1.0	8.1	0835
MCAS O-POOL				0.4	6.9	0700
MCAS BABY POOL		Secured				
ICE B/L 1300		✓			0925	

## REMARKS

As sampled 11/13 by water plant personnel and  
 time



9 Aug 83

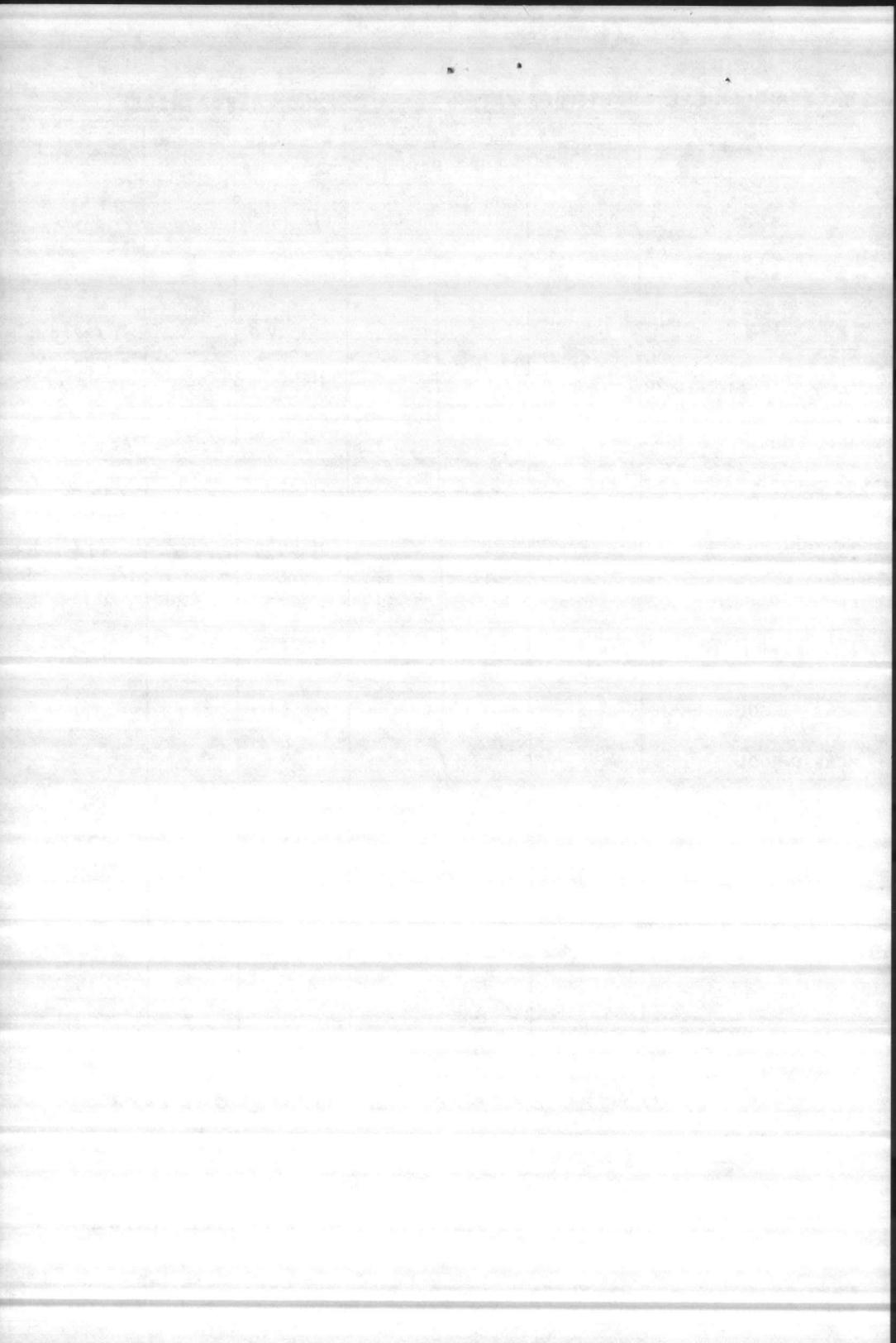
## BACTERIOLOGICAL ANALYSIS OF WATER

## NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		φ	1.0		0930
FC-19			0.5		0952
SH-8			0.7		0945
T.T. POOL			1.0	7.0	1030
M.P. POOL			0.5	7.4	1115
#2 POOL			0.8	7.8	1110
#5 POOL			1.0	7.6	1015
P. P. POOL			0.5	7.2	1045
P. P. BABY POOL			0.5	7.2	1045
MCAS E-POOL		∇	0.6	7.1	0840
MCAS O-POOL		φ	0.5	7.0	0855
MCAS BABY POOL		(closed)	—	—	—
ICE SAMPLE		φ <sub>1</sub>			
BLNG 1300					

## REMARKS

SH-8 overgrown non-coliform



2 Aug 83

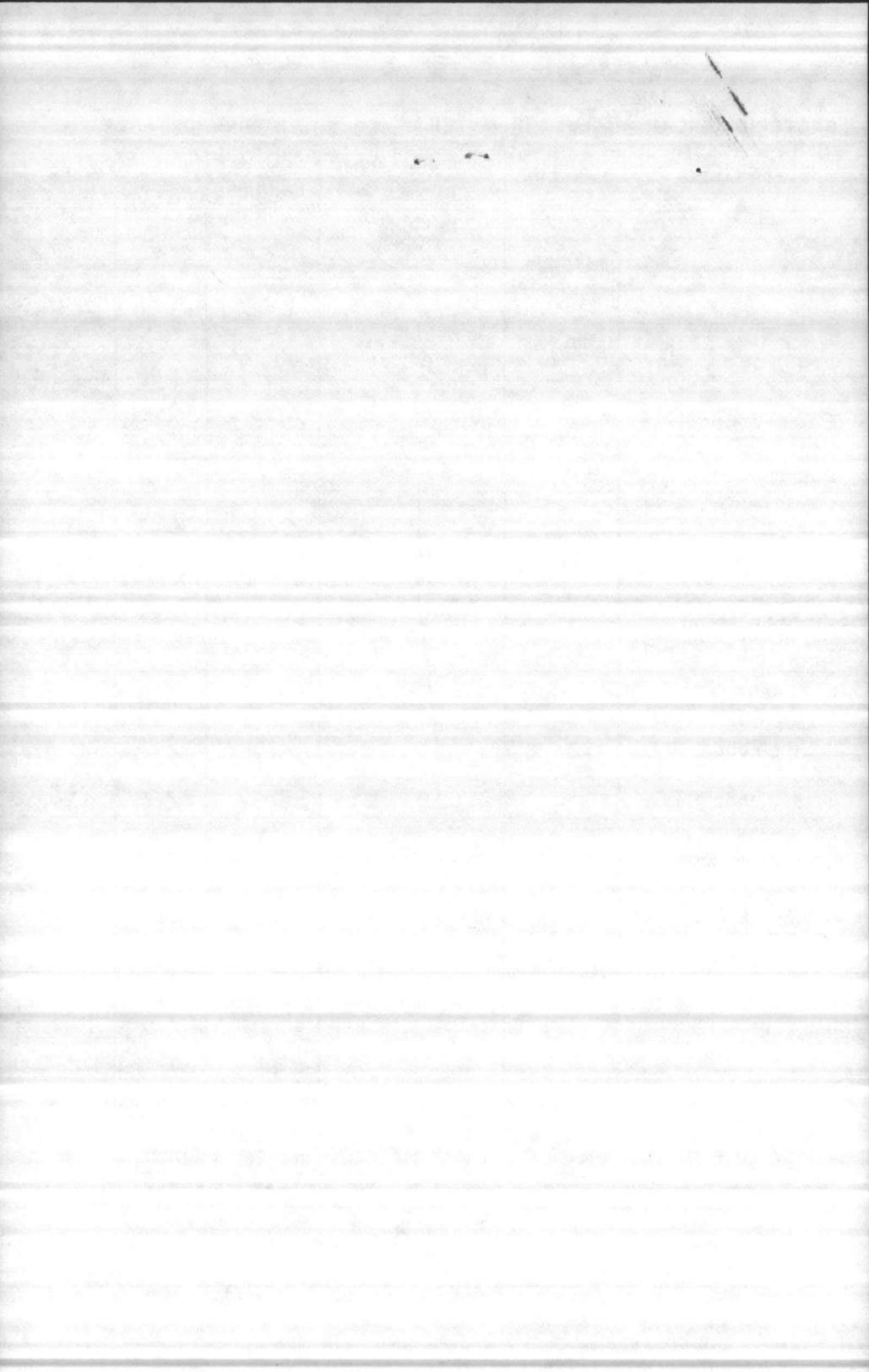
## BACTERIOLOGICAL ANALYSIS OF WATER

## NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME	
BB-97		∅	1.2		0845	
FC-19		∅ #	0.4		1040	
SH-8		∅ #	0.4		1025	
TT Pool		∅ #	0.3	7.3	0930	
M.P. POOL		∅	0.9	7.6	1130	
#2 POOL			0.6	7.2	0840	
#5 POOL			0.0	8.0	0820	
P. P. POOL			0.6	7.2	1110	
P. P. BABY POOL			0.6	7.2	1105	
MCAS E-POOL			1.2	7.1	0830	
MCAS O-POOL			0.7	7.1	0840	
MCAS BABY POOL			Secured			
ICE Bll 1300			∅			0905

## REMARKS

# Numerous non-Coliform colonies



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

#2 Pool

DATE COLLECTED

31 August 1983

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	7.62							
PENOLTHALEIN ALKALINITY	0							
METHYL ORANGE ALKALINITY	12							
CARBONATES AS CaCO <sub>3</sub>	0							
BICARBONATES AS CaCO <sub>3</sub>	12							
CHLORIDES AS Cl	70							
HARDNESS AS CaCO <sub>3</sub>	64							
IRON AS Fe								
FLUORIDE								
CHLORINE RESIDUAL	2.2							
TURBIDITY								
TOTAL PHOSPHATE								
ORTHO PHOSPHATE								
META PHOSPHATE								
STABILITY								
REMARKS								

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

*Elizabeth A. Bitz*

DATE OF ANALYSIS

31 August 83



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS  
 MCBCL 1130/3 (REV. 3-82)

1441

#2 #5

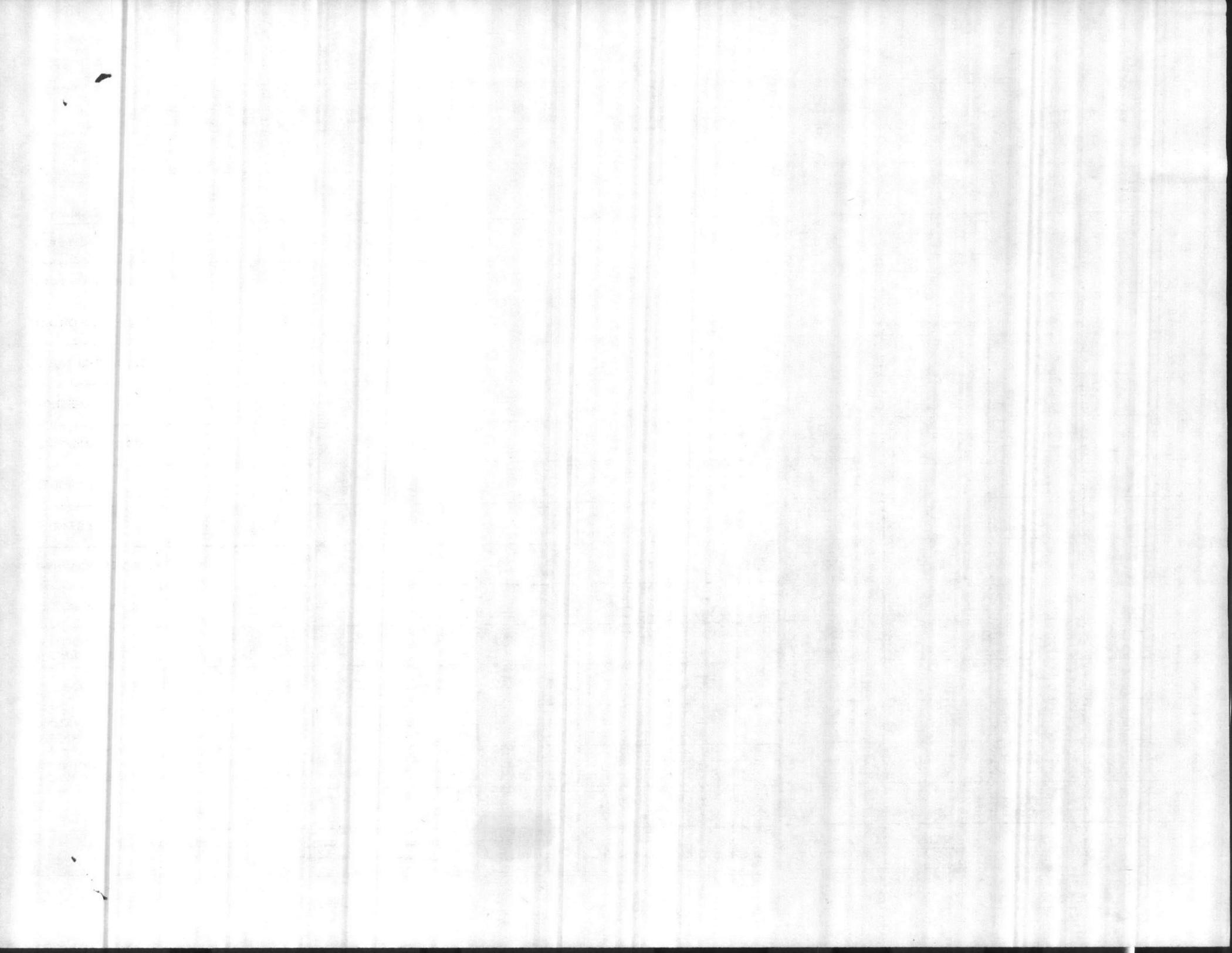
DATE COLLECTED  
 26 AUG 1983

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE POOL	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	6.90	7.77	7.88 <sup>2.29</sup>					
PENOLTHALEIN ALKALINITY	0	0	0					
METHYL ORANGE ALKALINITY	12	36	10					
CARBONATES AS CaCO <sub>3</sub>	0	0	0					
BICARBONATES AS CaCO <sub>3</sub>	12	36	10					
CHLORIDES AS Cl	76	22	292					
HARDNESS AS CaCO <sub>3</sub>	68	70	124					
IRON AS Fe								
FLUORIDE								
CHLORINE RESIDUAL	FREE		2.1					
TURBIDITY			1.9					
TOTAL PHOSPHATE								
ORTHO PHOSPHATE								
META PHOSPHATE								
STABILITY			-0.41					
REMARKS								

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

DATE OF ANALYSIS



*POOLS*  
**CHEMICAL ANALYSIS — WATER TREATMENT PLANTS**  
 MCBCL 1:330/3 (REV. 3-82)

DATE COLLECTED

PARAMETER	HADNOT POINT-	MONTEORD ROINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	6.51	7.17	7.14						
PENOLTHALEIN ALKALINITY	0	0	0						
METHYL ORANGE ALKALINITY	12	36	10						
CARBONATES AS CaCO <sub>3</sub>	0	0	0						
BICARBONATES AS CaCO <sub>3</sub>	12	36	10						
CHLORIDES AS Cl	70	22	292						
HARDNESS AS CaCO <sub>3</sub>	68	70	124						
IRON AS Fe									
FLUORIDE									
CHLORINE RESIDUAL (m )			2.1						
TURBIDITY									
TOTAL PHOSPHATE									
ORTHO PHOSPHATE									
META PHOSPHATE									
STABILITY			-0.41						

REMARKS  
*10/1/75* *PML*

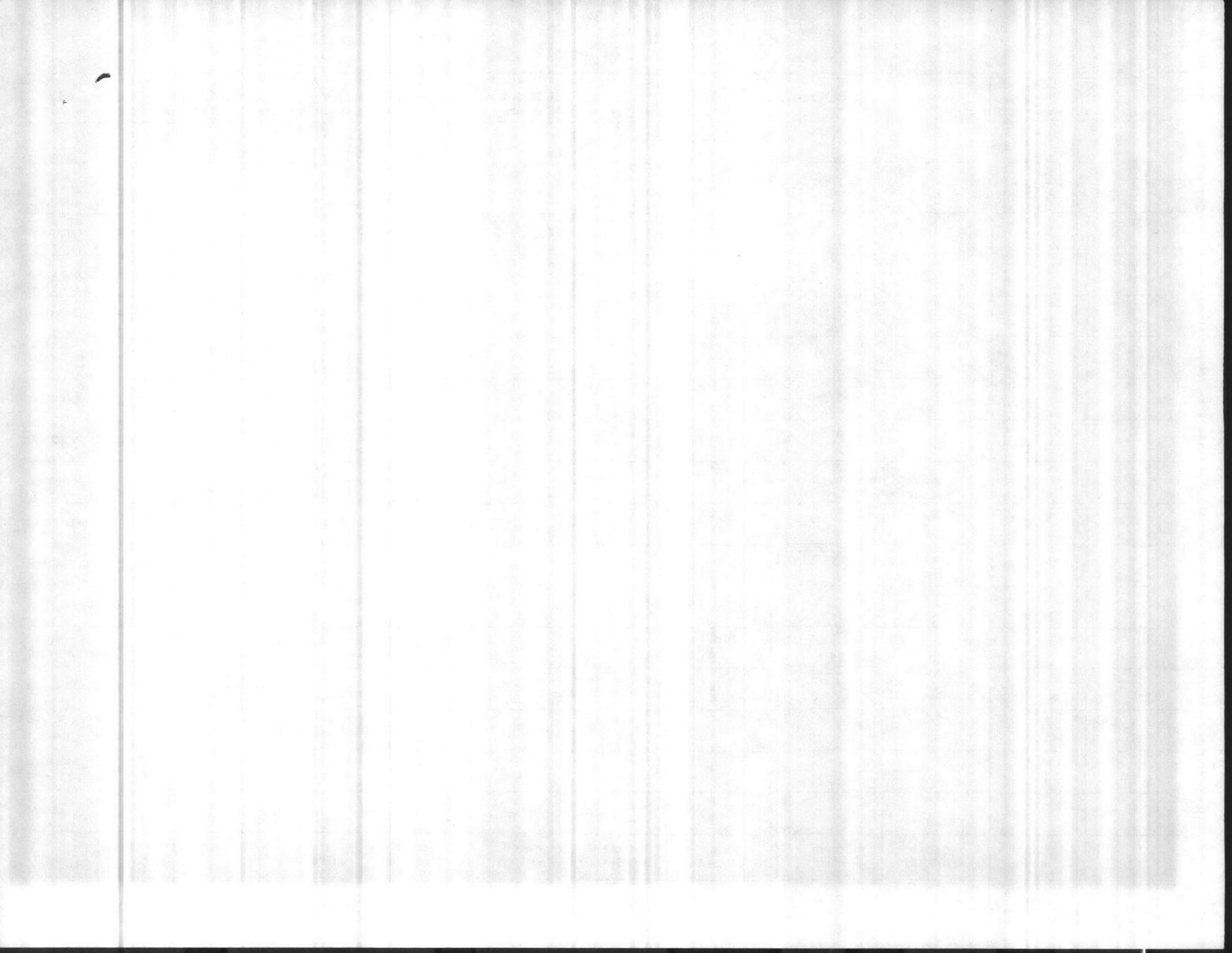
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

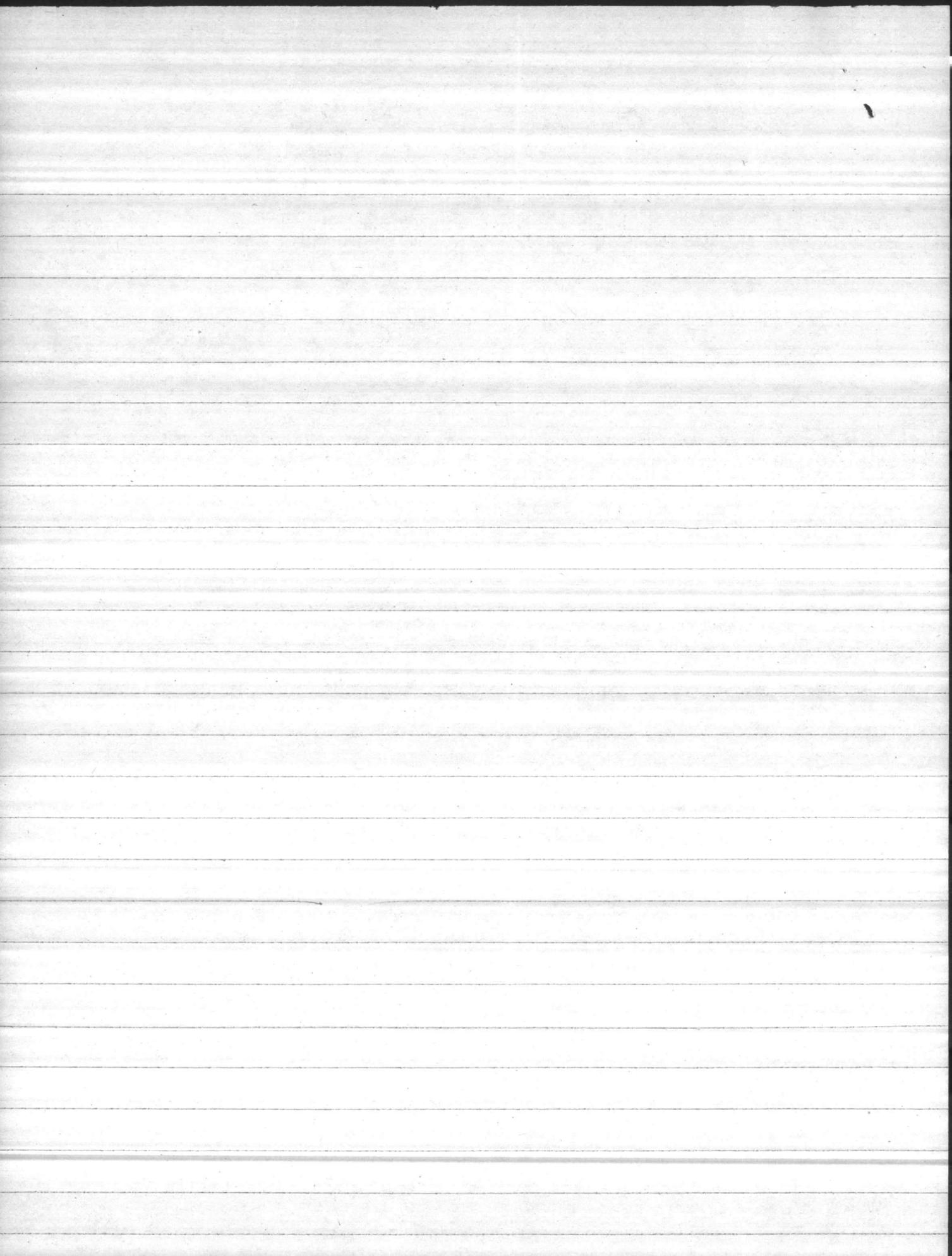
*W. G. D. D.*

DATE OF ANALYSIS

*26 Aug 1975*



	<u>Cl<sub>2</sub></u>	<u>PH</u>	Chlorides
5 1/2' WALKER ACROSS Pool	1.8	4.3	280
Swim Platform	2.1	4.2	280
Deep End	1.9	4.3	280



@ Temp 28.6°C

pH = 8.01

free Resid  $\text{Cl}^-$  0.3

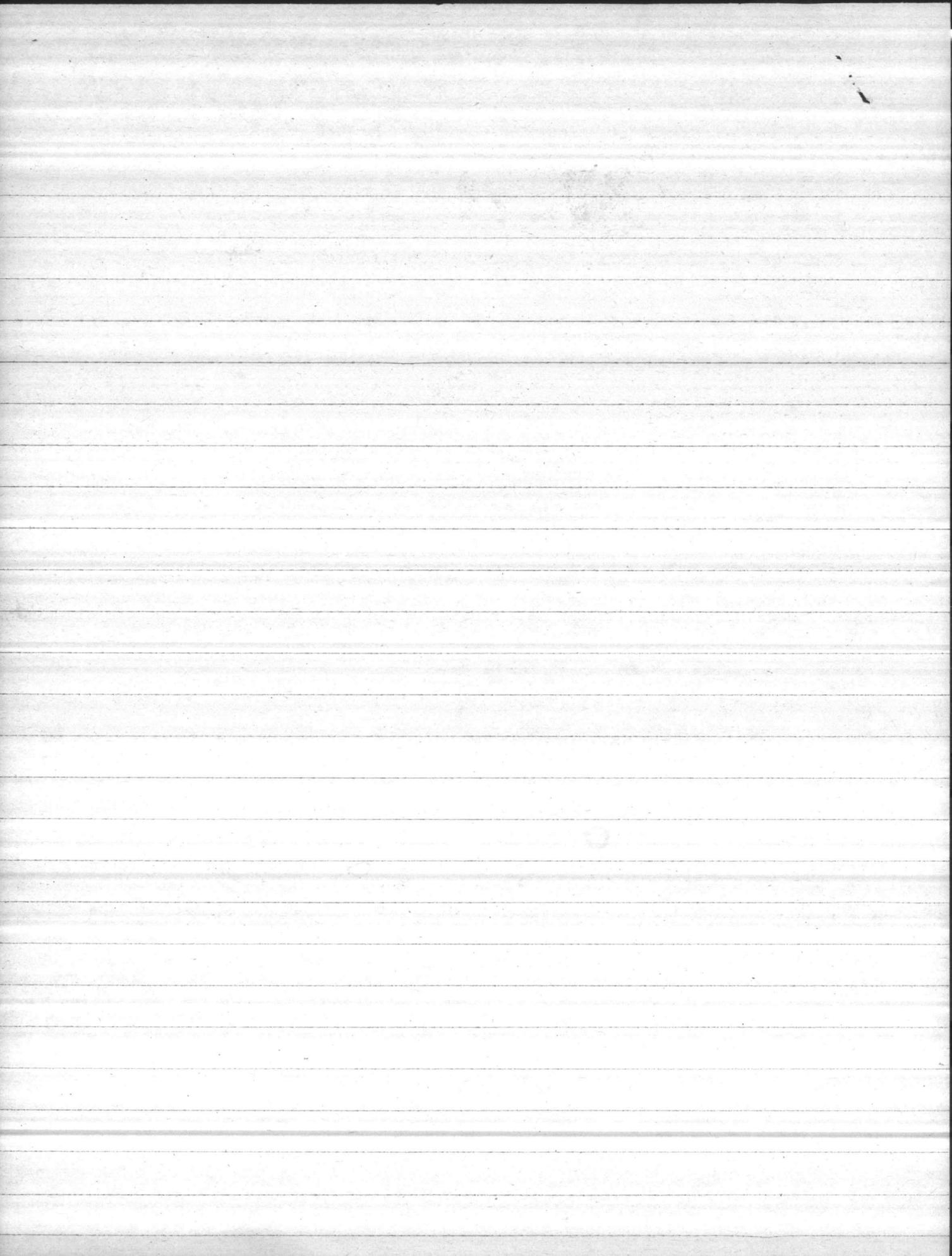
Chlorides 280

Hardness 140

Alkalinity: Phenolphthalein 0

methyl orange 0.5 x 20 = 10

8/25/83  
1400



# Memorandum

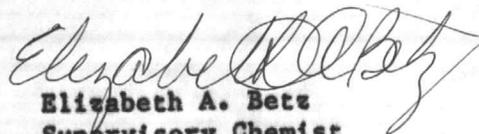
DATE: 23 August 1983

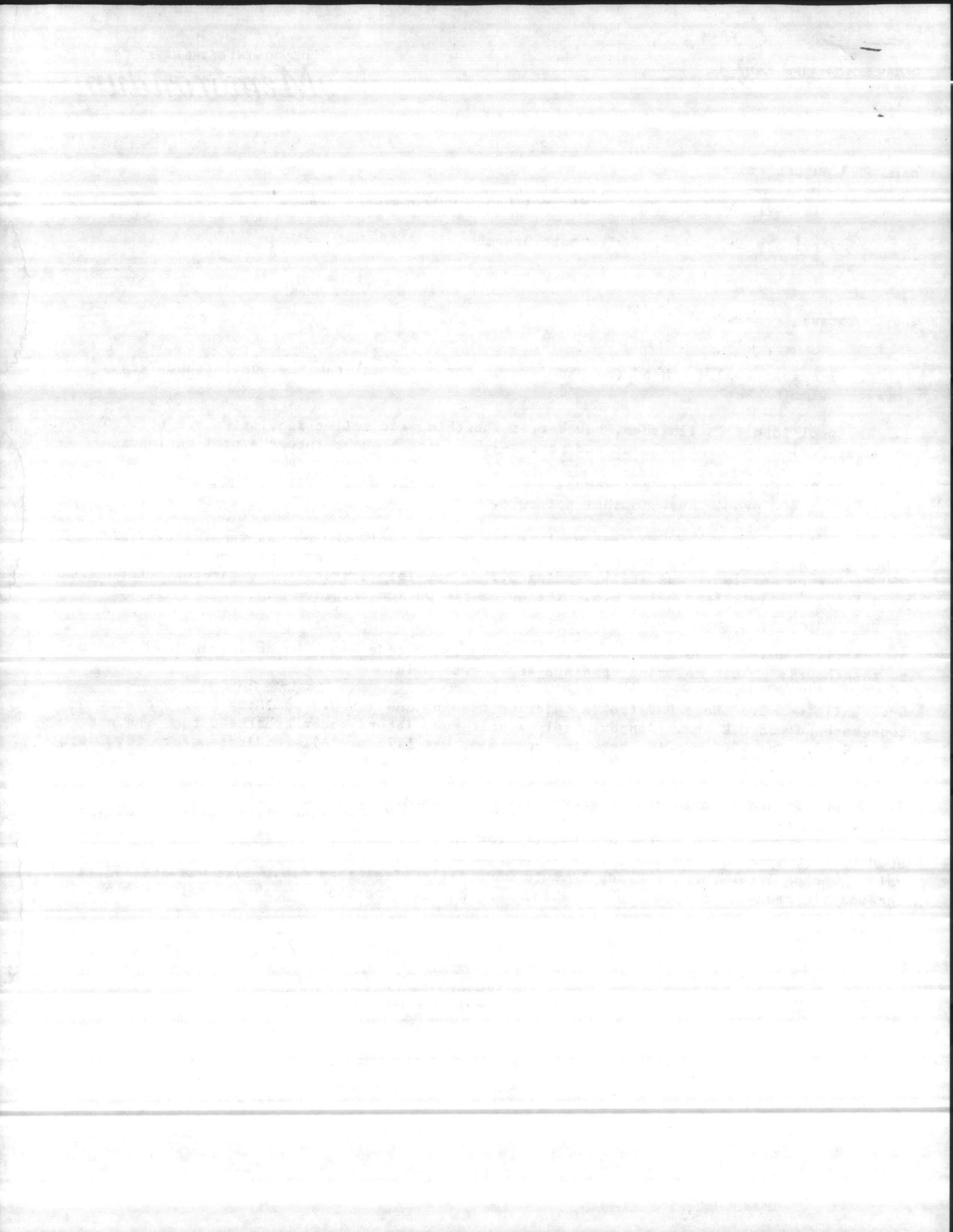
FROM: Supervisory Chemist, Quality Control Lab, Environmental Branch

TO: Supervisory Ecologist, Environmental Branch

SUBJ: Tarawa Terrace

1. On 22 August 1983, Lt Henderson and I went for a tour of the new, unfinished Tarawa Terrace Swimming Pool.
2. The pool itself is finished, however, the bathing and toilet facilities are not. To open the pool a temporary shower and port-a-johns were brought into the pool enclosure.
3. On 21 August 1983, over one thousand people used the pool. During that day, at one point about 400 people were in the enclosure.
4. According to the water treatment plant log at the pool, the pH was running 6.8. At 0900, they started feeding caustic soda, sodium hydroxide, but at approximately 1345, when PMU took a pH sample it was still reading 6.8 or possibly less. The comparator method used for pH doesn't read below 6.8. The automatic pH and chlorine monitor was disabled when I was there.
5. The life guards have a pH and chlorine comparator test kit. Lt Henderson told them to take hourly pH and chlorine readings and log them in.
6. While we were there PMU took a chlorine reading and got 0.2 ppm, the pool operator took a reading and got 0.0 ppm. Approximately a half hour later, water treatment took one and got 1.0 ppm. The 1300 reading by water treatment was 1.7 ppm. All readings before 1300 were 2.0 or greater.
7. No pH comparator method is approved by EPA. Comparator methods are determination by color. If solutions being tested already have a color or are turbid this will effect the pH reading. Comparator method are usually for only a range of pH. The phenol red method used by PMU, Special Services and Water Treatment can only read from 6.8-8.4 at 0.2 intervals. The pH I saw run yesterday would have called less than 6.8. That was at 1345, the caustic soda had been added for about four hours. Caustic soda should raise the pH.

  
Elizabeth A. Bett  
Supervisory Chemist



ENVIRONMENTAL HEALTH/SANITATION INSPECTION REPORT

NRMCLC 6240/1 A (3/82)

FROM: Head, Occupational & Preventive Medicine Department  
 TO: Special Services Officer, MCB, Camp Lejeune, NC

REF: (a) NAVMED P-5010

1. In accordance with reference (a) an environmental health/sanitation inspection of TARAWA  
TERRACE POOL was conducted on 05 AUG 83 by  
Hm<sup>1</sup> TOOMEY, Hm<sup>2</sup> GAINES, Hm<sup>3</sup> FLOYD. Findings and recommended corrective action are as follows.

AN \* INDICATES THAT THE FINDING HAS BEEN PREVIOUSLY REPORTED.

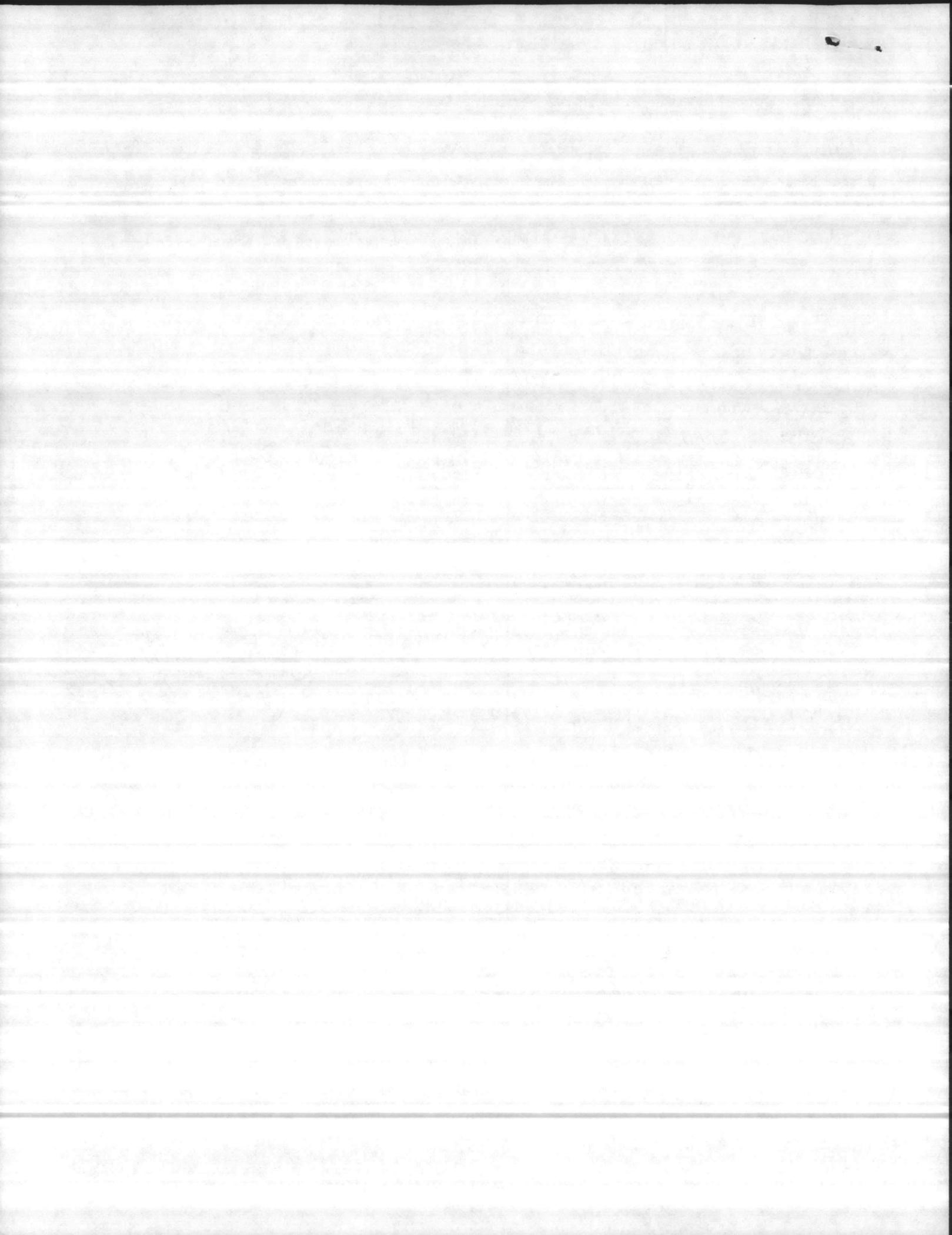
FINDINGS	RECOMMENDED CORRECTIVE ACTION
1. Shower Facilities -	
a- INTERIORS Have been painted properly.	
b- LIGHTING HAS BEEN INSTALLED.	
c- VENTILATION HAS BEEN INSTALLED.	
d- BAR SOAP WILL BE UTILIZED TILL SOAP DISPENSERS ARE ADDED TO THE FACILITIES WEEK OF AUG 8-12.	
2. Toilet facilities	
a- port-a-johns remain outside of service area, but will be placed inside 05 Aug 83 when maintenance week is complete. Pool will NOT be opened if toilet facilities are NOT placed in proper areas.	
b- ON CALL SERVICE for port-a-johns will be established to INSURE proper sanitation levels are being maintained.	
3. Chlorine STORAGE	
a- CYLINDERS NOW Secured by chains.	
b- Vent fan installed and operating correctly.	
c- MASK available for Emergency USE.	
4. Chlorine / PH Readings -	
a- Computer Now in full operation	
b- pool operator with access to TEST KIT and Computer Readings.	
5. ALL Pool SAFETY Equipment must be INSTALLED PRIOR TO opening - ie- Ringbuys, long hooks; first Aid kit; Pool Regulations.	

2. The overall sanitary condition was found to be: SATISFACTORY - if ABOVE Recommendations APPROVED: ARE followed.

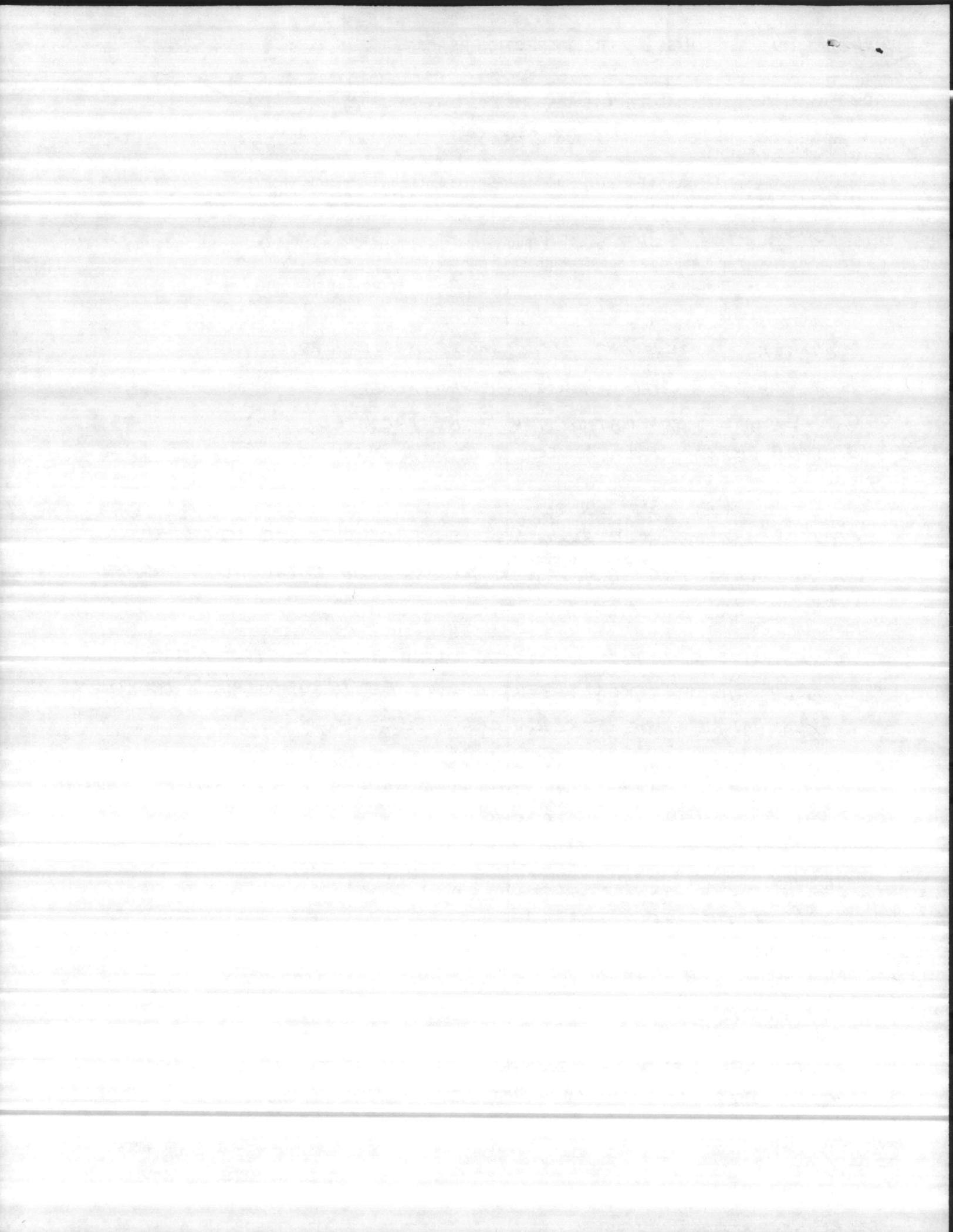
Copy to:  
 AC/S Personnel Services  
 Facility  
 File

*Greg V Johnson* CPL USMC

*G. L. WINTERS*







NAVAL REGIONAL MEDICAL CENTER  
CAMP LEJEUNE, N.C. 28542

IN REPLY REFER TO  
62:RDC:d1m  
6241.1  
30 June 1983

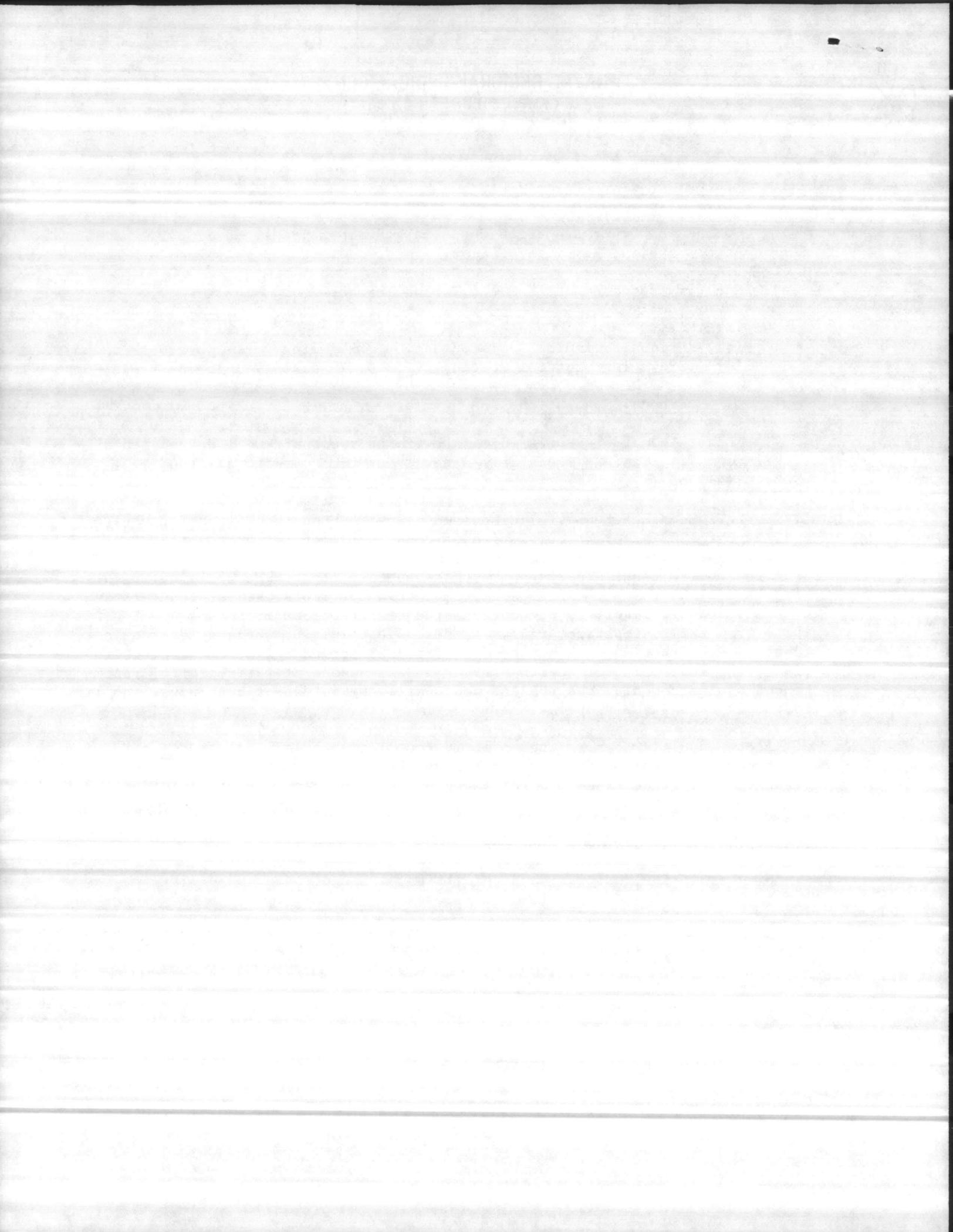
From: Commanding Officer  
To: Commanding General, Marine Corps Base, Camp Lejeune, NC 28542  
Attn: Special Services Officer

Subj: Sanitary Requirements for the Tarawa Terrace Pool

Ref: (a) NAVMED P-5010, Chapter 4  
(b) National Swimming Pool Foundation, "Swimming Pool Operators Handbook"  
(c) Tarawa Terrace Pool Meeting of 1300, 29 June 1983 at the Field House

Encl: (1) Personal Regulations for Swimmers

1. The health hazards associated with swimming pools are well documented by reference (a). Standard acceptable sanitary criteria are established in references (a) and (b).
2. Background. Reference (c) discussed plans to open the Tarawa Terrace Pool by 1 August 1983 prior to completion of construction for use by active duty military, dependents and retired personnel. Because plans are in progress to open the pool without a permanent bath house facility, there would be an increased risk of swimmer exposure and contact with floors, seats, counters and towels which are likely to be contaminated by infectious organisms, such as those from boils, impetigo, ringworm and conjunctivitis. Because of the incomplete construction, the numbers of personnel served and associated health risks, the Environmental Health Officer in attendance at reference (c) recommended against opening the subject pool until the permanent bath house facility is completed and fully operational.
3. If the pool is to be opened prior to completion of all construction, against the recommendation of the Occupational and Preventive Medicine Department, it is strongly recommended that the following criteria be met without deviation:
  - a. Adequate lighting and ventilation is required for shower and toilet facilities to promote cleanliness.
  - b. Lavatories, urinals, and toilets should be cleaned and disinfected at least twice daily, or more often as necessary.
  - c. Smooth, easily cleanable, light colored (e.g. painted surfaces) should be used in all shower facilities. Semi-gloss or glossy paints should be utilized. No duck boards are authorized. All surfaces should be cleaned and disinfected at least twice daily.
  - d. Shower facilities should be properly drained into the sanitary sewerage system and the showers shall be provided with hot and cold water.
  - e. Toilet facilities (2 for male patrons and 2 for female patrons) should be easily accessible to the patrons and serviced in a sanitary manner on a daily basis, or more often as necessary.



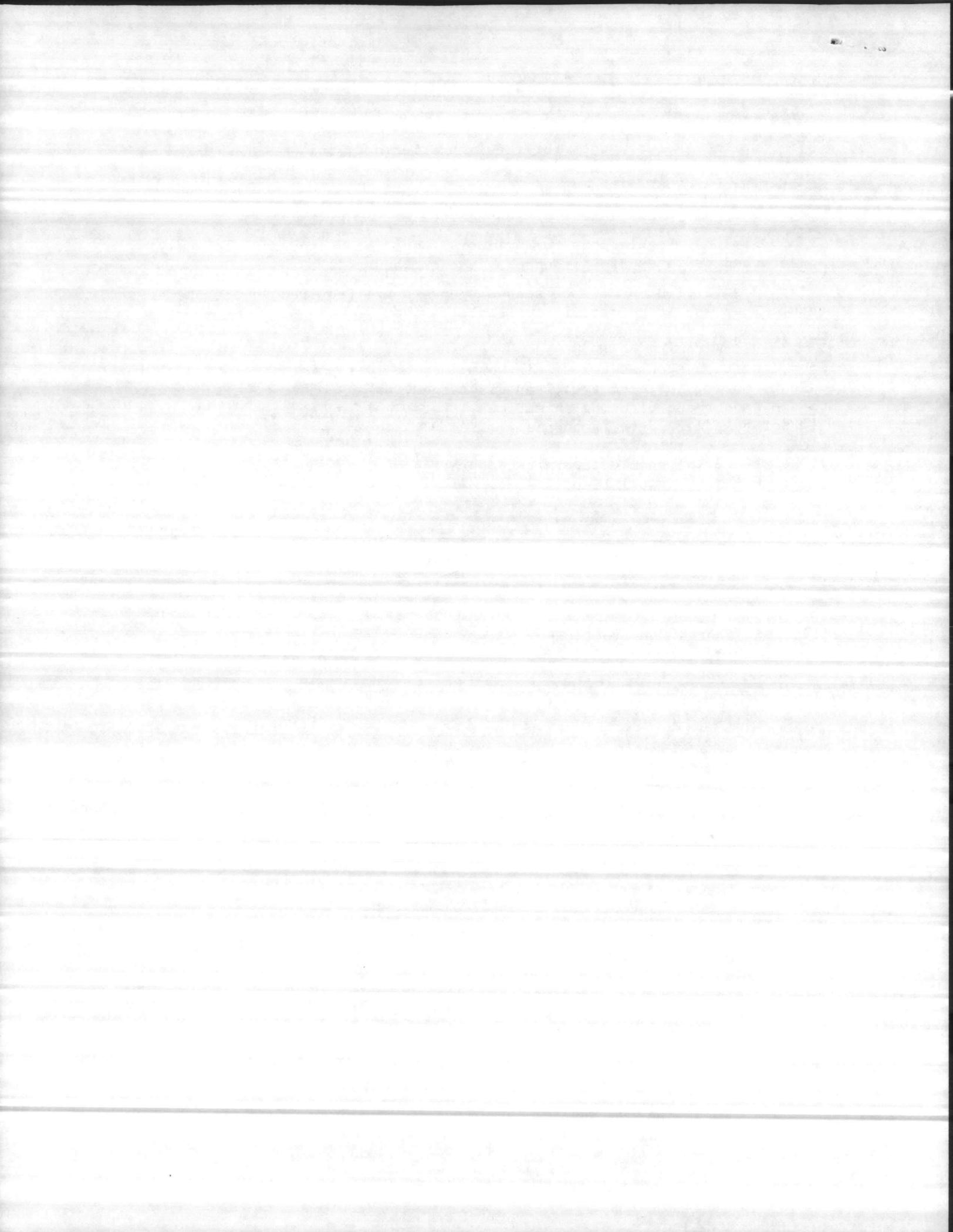
62:RDC:d1m  
6240  
30 June 1983

Subj: Sanitary Requirements for the Tarawa Terrace Pool

- f. Adequate, easily cleanable waste receptacles should be provided.
  - g. Dirt and grassy areas are prohibited.
  - h. Personal Regulations for Swimmers should be posted conspicuously and enforced by lifeguard personnel. See enclosure (1).
  - i. A sufficient number of soap dispensers are required in the shower areas. They should be readily available to the patrons using the showers.
4. Admission to the pool should be denied to all persons having any infectious condition such as colds, ringworm, fever, foot infections, open skin lesions, boils, inflamed eyes, ear discharges, or any other condition which has the appearance of being infectious. Personnel in bandages of any kind will not be admitted to the pool.
5. Reference (a) should govern the operation of this pool for all areas not discussed by this letter.

  
G. L. WINTERS  
By direction

Copy to:  
Officer-in-Charge Construction  
Base Safety Officer  
Base Maintenance Officer



PERSONAL REGULATIONS FOR SWIMMERS

- (1) Prior to entering the pool area and/or after using the toilets, all bathers will be required to take a cleansing shower in the nude, using soap liberally-and paying particular attention to the cleansing of body orifices.
- (2) Bathers who have been outside the bathhouse or pool enclosure will not reenter without taking another shower.
- (3) No person known to have a fever, cough, cold, inflamed eyes, nasal or ear discharges, or any communicable disease will be allowed to use the pool.
- (4) No person with sores or other evidence of skin disease, or who is wearing a bandage of any kind, will be allowed to use the pool.
- (5) All bathers should make use of toilet facilities before taking a shower or entering the pool.
- (6) Spitting or urinating in the pool, or contaminating it in any other way, and spitting on floors, runways, and aisles is prohibited.
- (7) Eating and smoking within the pool enclosure is prohibited.
- (8) Bringing to the pool or throwing into it any objects that may in any way carry contamination, endanger safety of bathers, or produce un-slightliness is prohibited.
- (9) The presence of dogs, cats, or other pets within the pool, the pool enclosure, or the dressing room is forbidden.
- (10) No boisterous or rough play, except supervised water sports or training, will be permitted in the pool, the dressing rooms, or the shower rooms, or on the runways, the diving boards, the floats, or the platforms.

