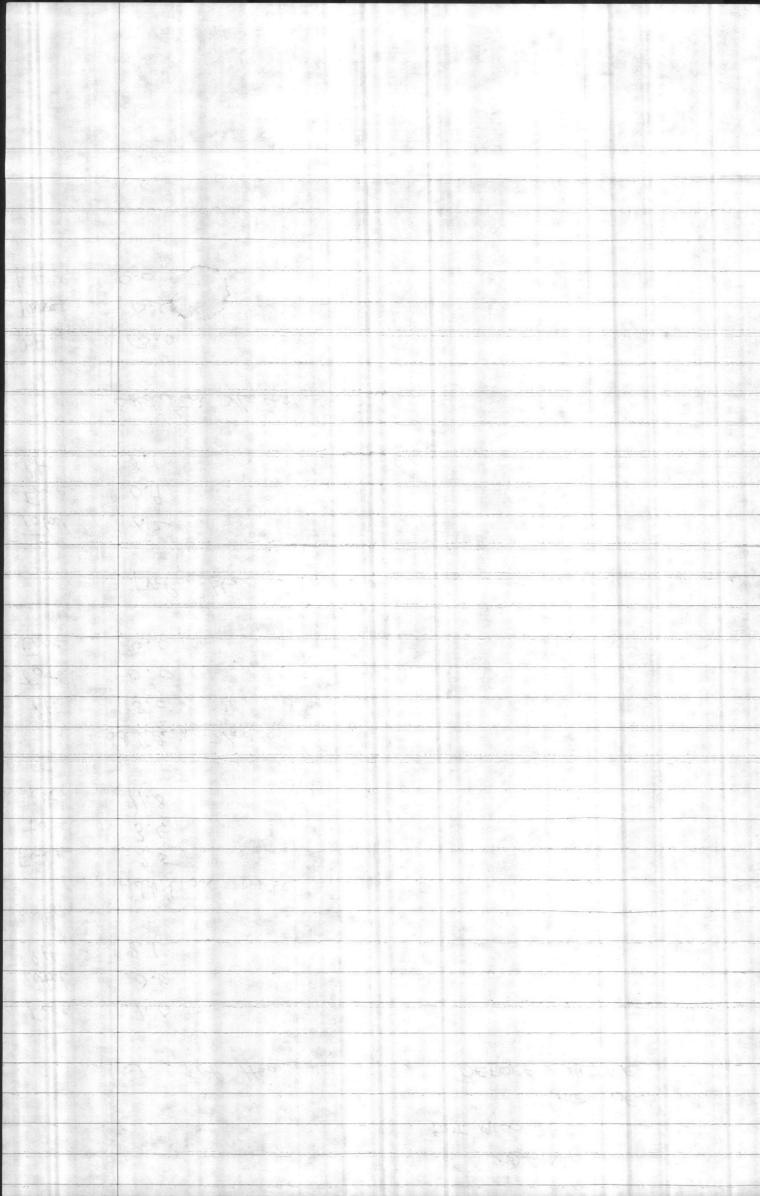
FILE FOLDER

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

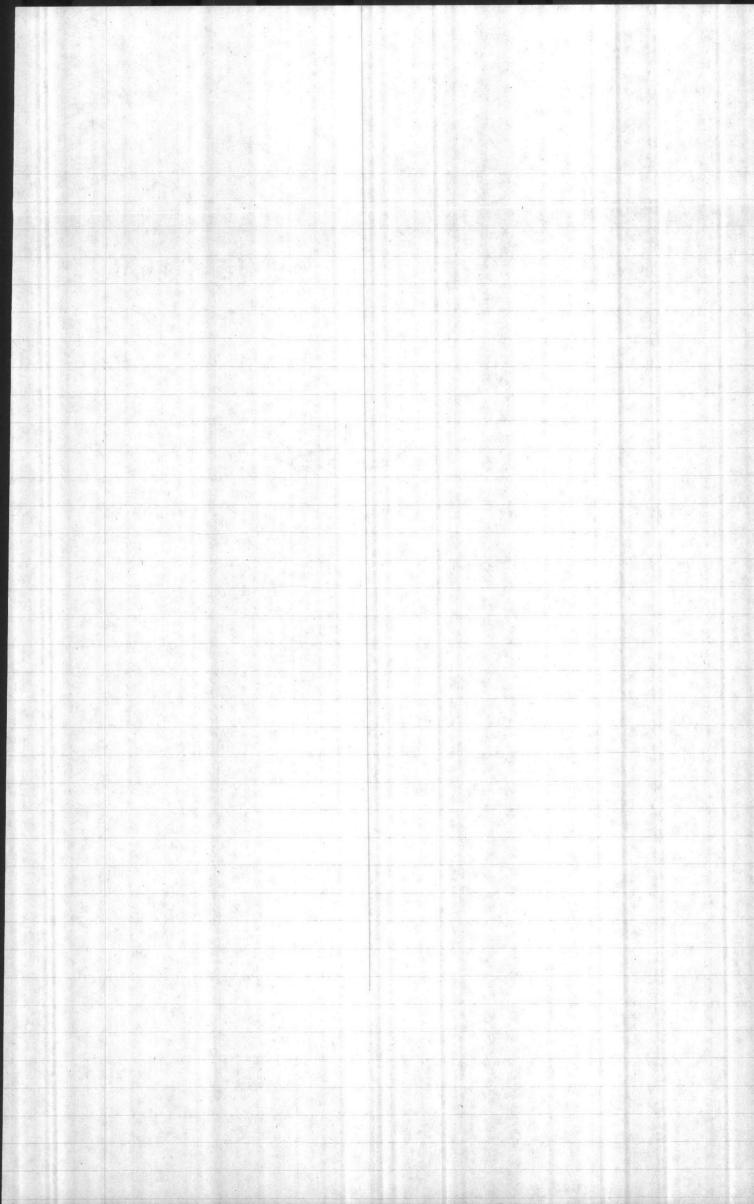


SUMMARY

	TOTAL			
	COLLEGEM	NON-COUFORM	Cle	PH
2 Aug (Am) 0930	. 0	NUMEROUS.	0.3	7.3
9 Aug (030	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
5'2 LADDER	1 7	0	0.2	
(@ 0950 6' LADDER	0	0	0.5	
PMU & 0953 SHALLOW	0	0	0.5	
(@ 0955 D.E.	0		0.2	
18 Aug B 0830 0815	3	0	1.3	7.3
19 Aug 1125	840	0	0.5	
20 Aug 1030	3	0	1,3	
1048 D.E.	0	0	1,6	6.8
1044 SHALLOW	0	0	1.5	6.8
21 AUG 0815 SALLOW	0	٥	2.0+	
0816 D.E.	0	0 /	2.0+	
22 AUG 0910 D.E	0	6	2.0+	6.8
0915 SAALLOW	0	6	2.0+	6.8
1050 D.E.	6	NUMEROUS	2.07	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
5. Ph. 1 (1994) 1 (19	The state of the s			

10

NAOH + HOCI -- NACI -> H2O+ H+



9150 7160

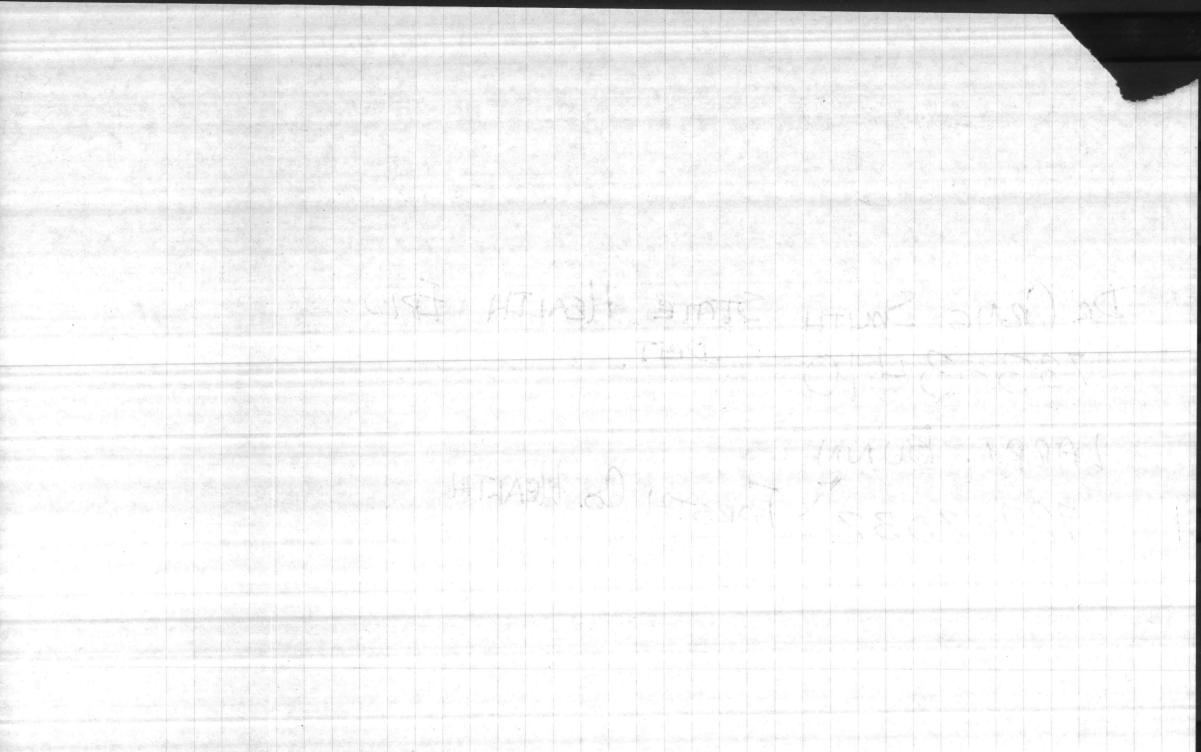
DR. CRAIG SMITH STATE HEALTH EPID.

733-3410 DEPT.

LARRY. BUNN

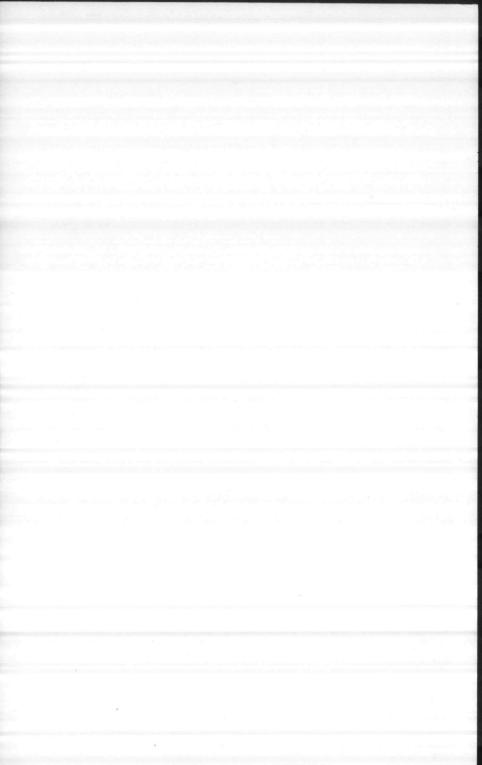
727-2032 FORSTH Co. HEALTH

727-2032 FORSTH Co. HEALTH

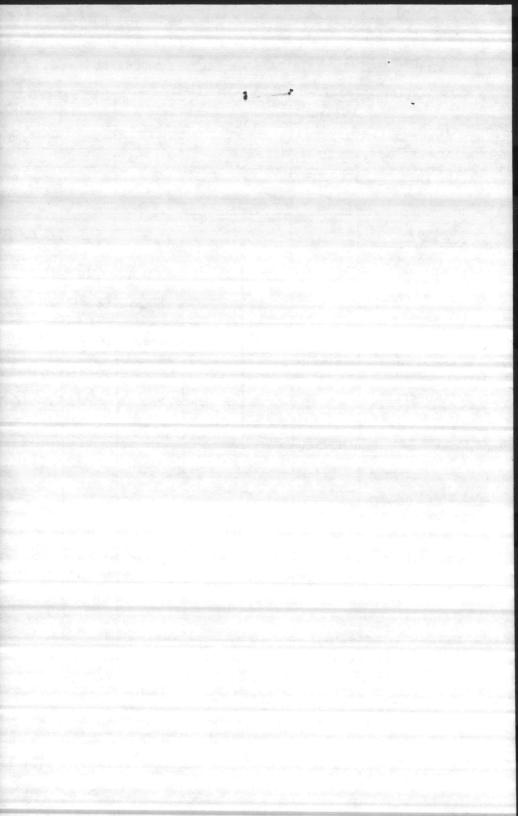


CHLORINE SHALLOW ZO DEEP PH DEEP -6.8 Aug. # PEDPLE DATE 16 449 628 676 18 19 653 21 1151 22 677 23

0700 6.8 1.4



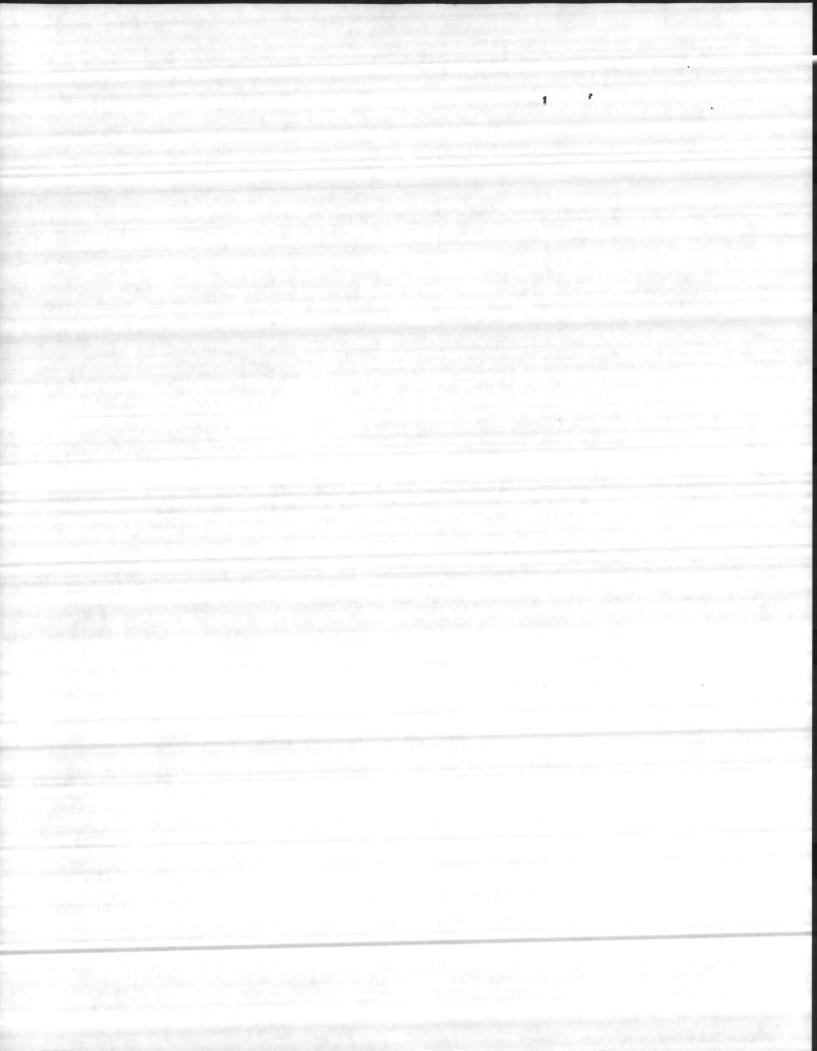
BACTERIOLOGICAL	ANALYSIS O	F WATER	NON-RE	PORTAB	LE
WATER SAMPLES	MARKED	COLIFORM COUNT	RESIDUAL CHLORINE	ρΗ	TIME
B B -97		0	1.2		0830
FC-19		0	0.7		0154
SH-8	c/	osed for	Insp		
TTPOOL		0	0.7	7.5	0930
M.P. POOL			0.6	7.6	1030
#2 POOL			0.6	6.8	1040
#5 POOL			0.6	7.4	1004
P. P. POOL			0.7	7.3	1052
P. P. BABY POOL			0.7	7.3	1056
MCAS E-POOL			1.2	7.3	0830
MCAS O-POOL		0	0.7	7.3	0840
MCAS BABY POOL					
			15 m		



QUALITY CONTROL LABORATORY REPORT MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER TO MCBCL 11830/8 (REV. 4/78)

SAMPLE COLLECTED BY		PATE COLLECTED
MARKED	COLI	FORM
MARKED	TOTAL	FECAL
104.)	-0	Property of the second
	94	
The second second second		
Fire Section and American Company		
	4 4	
	MARKED	MARKED TOTAL

SIGNATURE PLANTED AND AND AND AND AND AND AND AND AND AN	p.T	DATE 27 Au	283
СОРУ ТО			
NREAD	BASE PRE	VENTIVE MEDICINE	
UTILITIES DIRECTOR		VENTIVE MEDICINE	
WATER TREATMENT PLANT (GENERAL FOREMAN)	DE FILE		

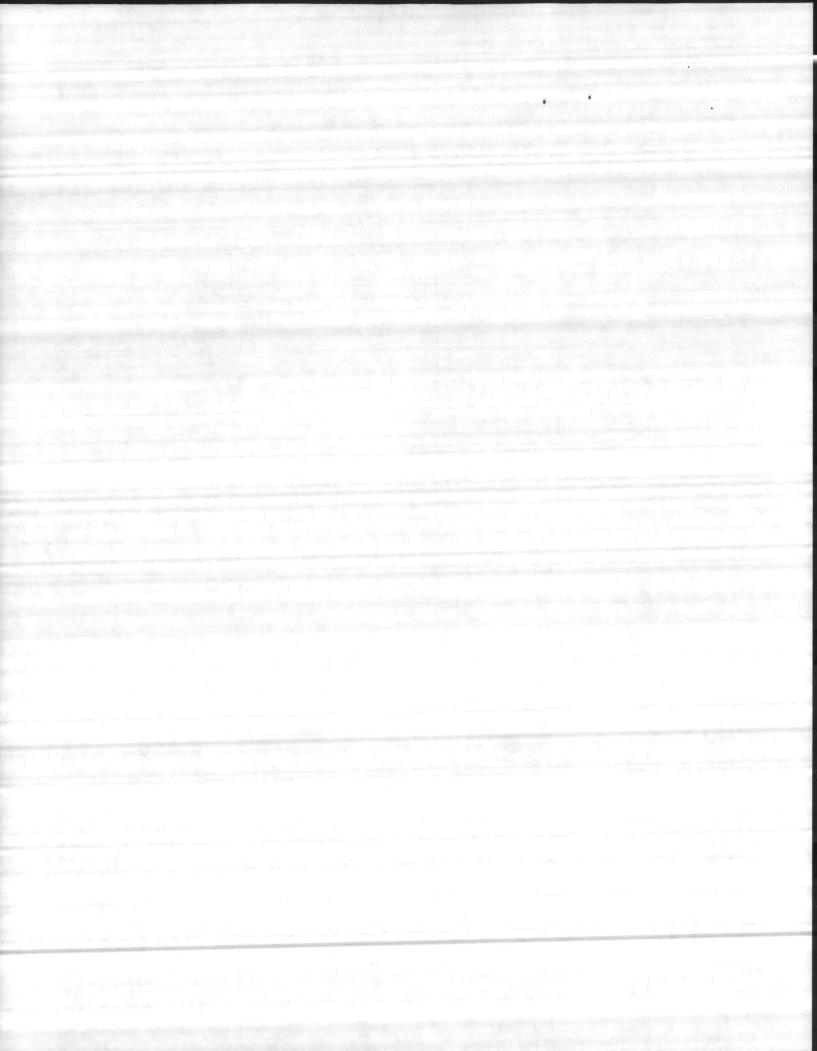


MCBCL 11339/8 (REV. 4/78)

VATERTYPE COLL	SAMPLE COLLECTED BY		DATE COLLECTED 26 AUGUST 83	
LOCATION	MARKED	COLIFORM		
SHELL WELD		TOTAL	FECAL	
PL-78-1 3+4	3142	0		
Dero France	0940	0		
5 1/2 17 MARKET	943	0		
Actiss 12.0L		0		
		Pa Tomas		
	·			

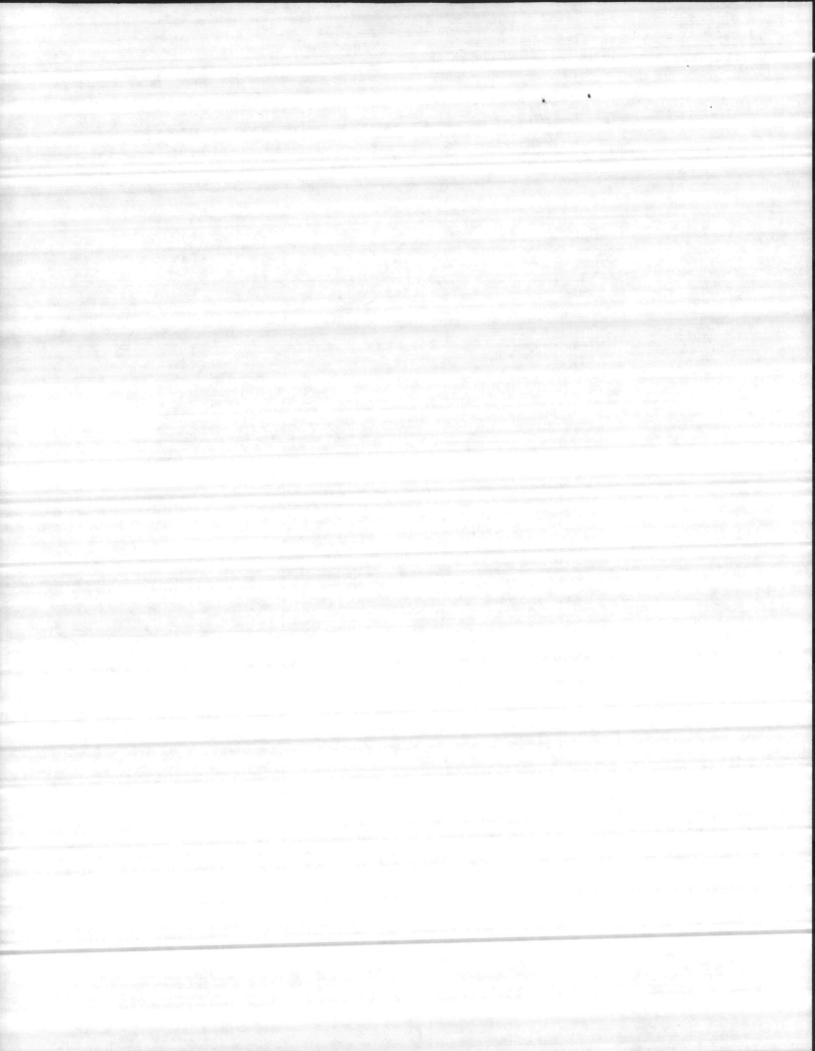
REMARKS

SIGNATURE Rat / Metroelle	DATE 27 day 83
COPY TO	
NREAD	BASE PREVENTIVE MEDICINE
UTILITIES DIRECTOR	MCAS PREVENTIVE MEDICINE
WATER TREATMENT PLANT (GENERAL FOREMAN)	



ATER TYPE	SAMPLE COLLECTED BY	· ·	DATE COLLECTED
LOCATION	MARKED		COLIFORM
		TOTAL	FECAL
77 POOL	(1+30)	V.	
		630 Mary Const.	
		1	
1002 CAMP KNOX	CL203	\mathcal{D}	
(COMPKAINT)		manus sangakan	
		The strongs when	

SIGNATURE	BULL DATE 26 A (83)
COPY TO	
NREAD	BASE PREVENTIVE MEDICINE
UTILITIES DIRECTOR	MCAS PREVENTIVE MEDICINE
WATER TREATMENT PLANT (GENERAL FORE	N)



file

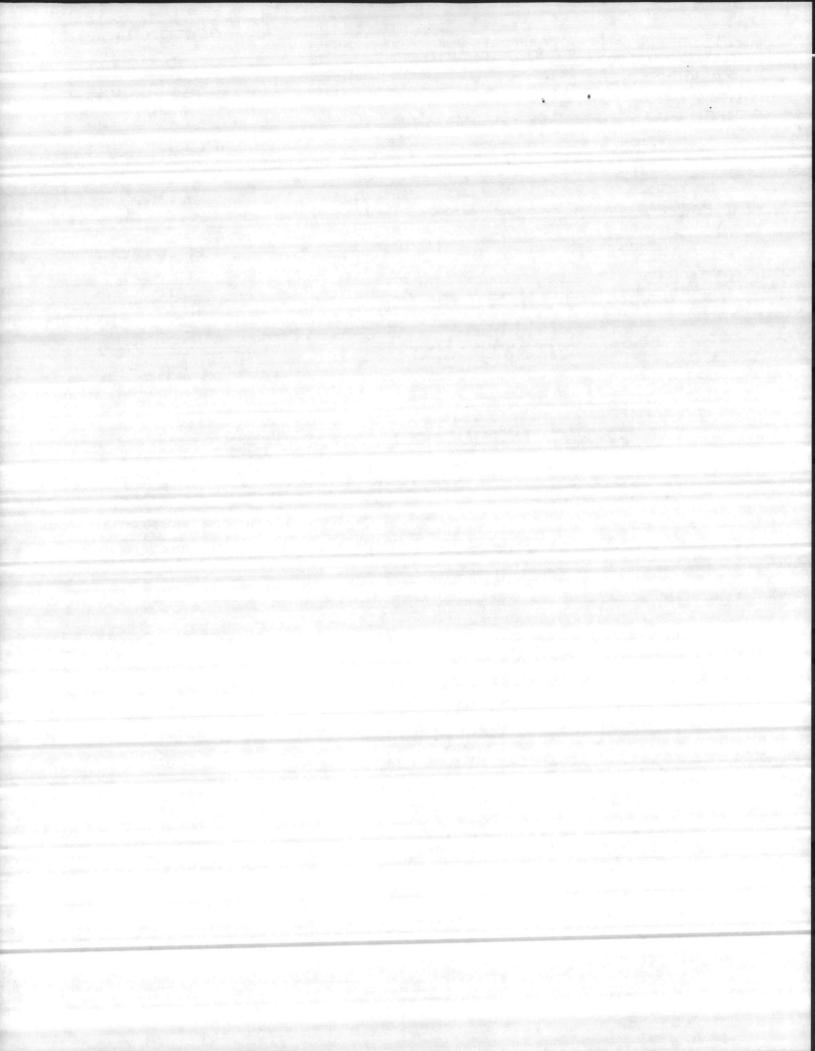
QUALITY CONTROL LABORATORY REPORT MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/78)

TT POOL	SAMPLE COLLECTED	APIZN PMU	DATE COLLECTED 8/25/83
		Fr /= N VI C	OLIFORM
LOCATION	MARKED	TOTAL	FECAL
TT POOL (Deep)	0810 Ch = 2.0	Φ	ϕ
TT Pool (SHOLLOW)	0810	Ф	φ.
	(ii) = 1 = 2 = 2 = 2 = 2		
REMARKS Recd. LA	5 08 30 8/2	5183	
Ph 4.4			

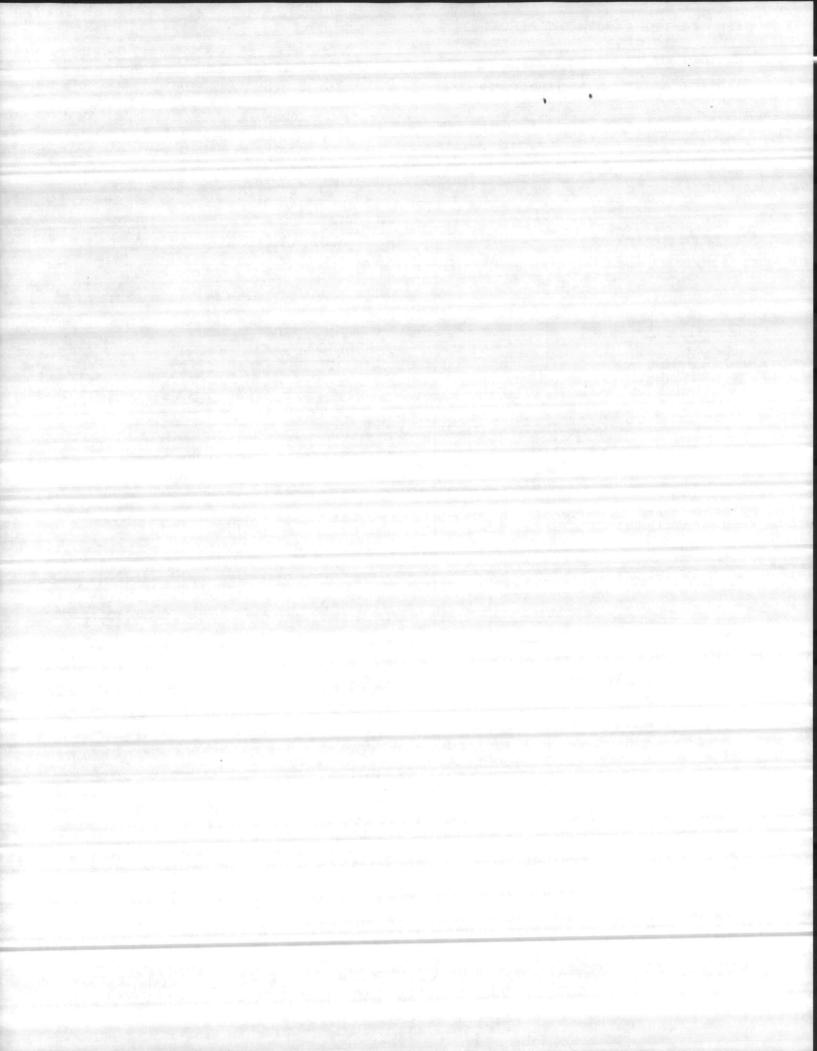
COPY TO

| DATE 8/26/83 |
| COPY TO | BASE PREVENTIVE MEDICINE |
| UTILITIES DIRECTOR | MCAS PREVENTIVE MEDICINE |
| WATER TREATMENT PLANT (GENERAL FOREMAN) |



MCBCL 11330/8 (REV. 4/78)

ATER TYPE	SAMPLE COLLECTED	BANGS	DATE COLLECTED
	WARKER.		COLIFORM
LOCATION 1440	MARKED	TOTAL	FECAL
Theol M.		0	\mathcal{D}
1435	· · · · · · · · · · · · · · · · · · ·	1	4
TPOOL Shallow		0	0
N35		d	<i>A</i>
TPWI Deep N35		4	4
• 4			
	The state of the said		
<u> </u>	72.5		
REMARKS			3 Setup 1 500 £
	TIF	Pool shallow	Se Jup 1500 I
1 Peol M: 1 440 24 Aug 83 32 ngs-Chibiner	12/21	5 24 Aug 83	3
440 24 Aug 83	143:	+ Zi noj	The state of the s
7 17	Ban	gs - Cylor Ine	
32 ngs-Ch biner		Committee of the commit	in the second of
11		-	FT POOL (1435)
ed tol 1505			1 100 = 1133/
			Deep END
tiree 1.5 PH	112		Deep END
	/,~		
SIGNATURE	6.D. Bu	me :	DATE 25 AUG 83
COPY TO	700		
NREAD		BASE P	REVENTIVE MEDICINE
		MCAS P	REVENTIVE MEDICINE
UTILITIES DIRECTOR			NETERITE MEDICINE
WATER TREATMENT PLANT			



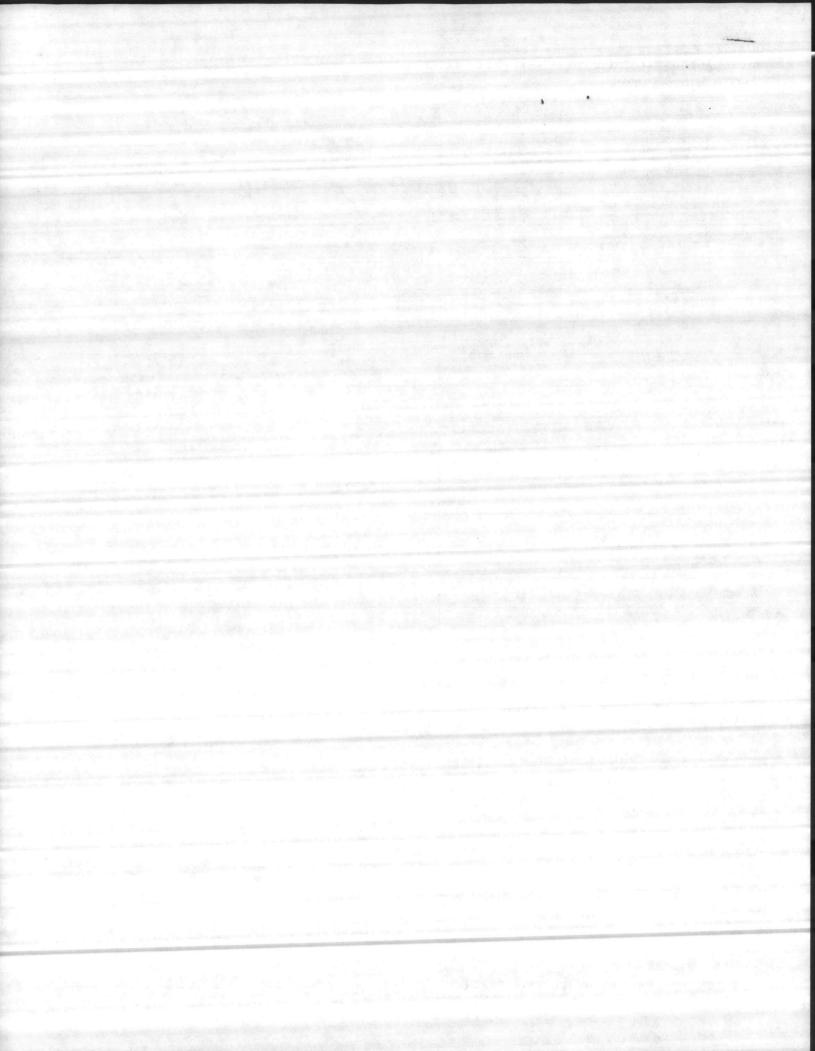
MCBCL 11890/8 (REV. 4/78)

ATER TYPE POOL	SAMPLE COLLECTED	GC LAB	DATE COLLECTED 24 Hug 83 1030
			OLIFORM
LOCATION	MARKED	TOTAL	FECAL
TT Pool shallow and	550-	: 8	2
shallow end	510	Ø	0
77 Pool Deep end	250	Ø	Ø
Deep end	P 10	1	

REMARKS

 $C1_2 = 2.0$ $\beta H = 6.8$

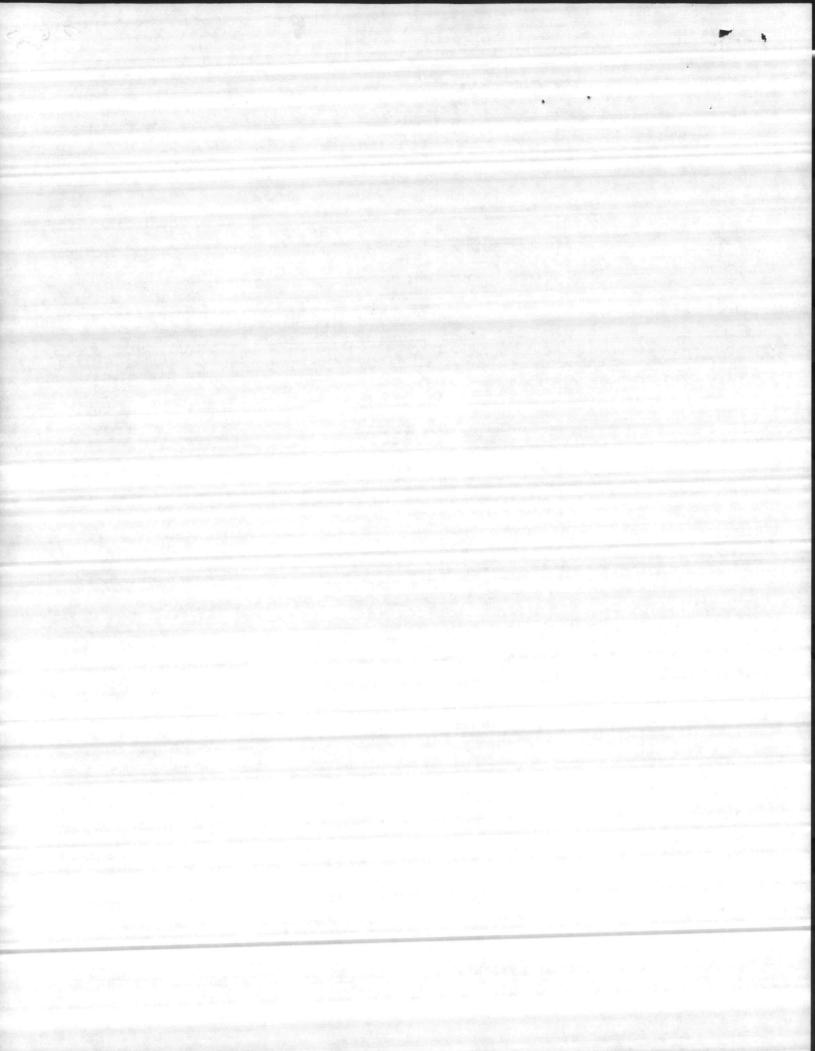
SIGNATURE	H Bun	<u> </u>	DATE 25 200 83
COPY TO	0		
NREAD		BASE PE	REVENTIVE MEDICINE
UTILITIES DIRECTOR		MCAS PI	REVENTIVE MEDICINE
WATER TREATMENT PLANT (GENERA	L FOREMAN)		



Lihe

1D226Am

MCBCL 11339/8 (REV. 4/78)			NN	
WATER TYPE	SAMPLE COLLECTED	BANGS	DATE COLLECTED 24 Pas 83	
LOCATION	MARKED	COL	IFORM	
1.11/1		TOTAL	FECAL	
THOOL Shallow N35		P P	Ø.	
THOOL Shallow		6	6	
N35				
THOU VECP		φ	\mathcal{D}	
			/	
			and the second s	
	1			
		•		
EMARKS			244385	
Peol M: 10 140 24 Aug 13	TI Po	of shallow	Setup 1500 L	
was Air 13	1435	24 Aug 73	2	
140 24 mg w	7-140	(-01/- 100		
angs-chibine	Parch	s-culorine	The state of the s	
and made,	·			
11 == -			Divi	
d. Tot 1505		7/	POOL (1435)	
- 15				
tiree 1.5 PH 4.	7)	De	eep END	
SNATURE		The second secon		
	6.2. Bur	4	DATE 25 AUG 83	
PY TO	100	the second second	2 700 0 3	
NREAD		Dates some	WE MEDICINE	
		BASE PREVENT		
UTILITIES DIRECTOR	MCAS PREVENTIVE MEDICINE			
WATER TREATMENT PLANT (GE	NERAL FOREMAN)			



QUALITY CONTROL LABORATORY REPORT

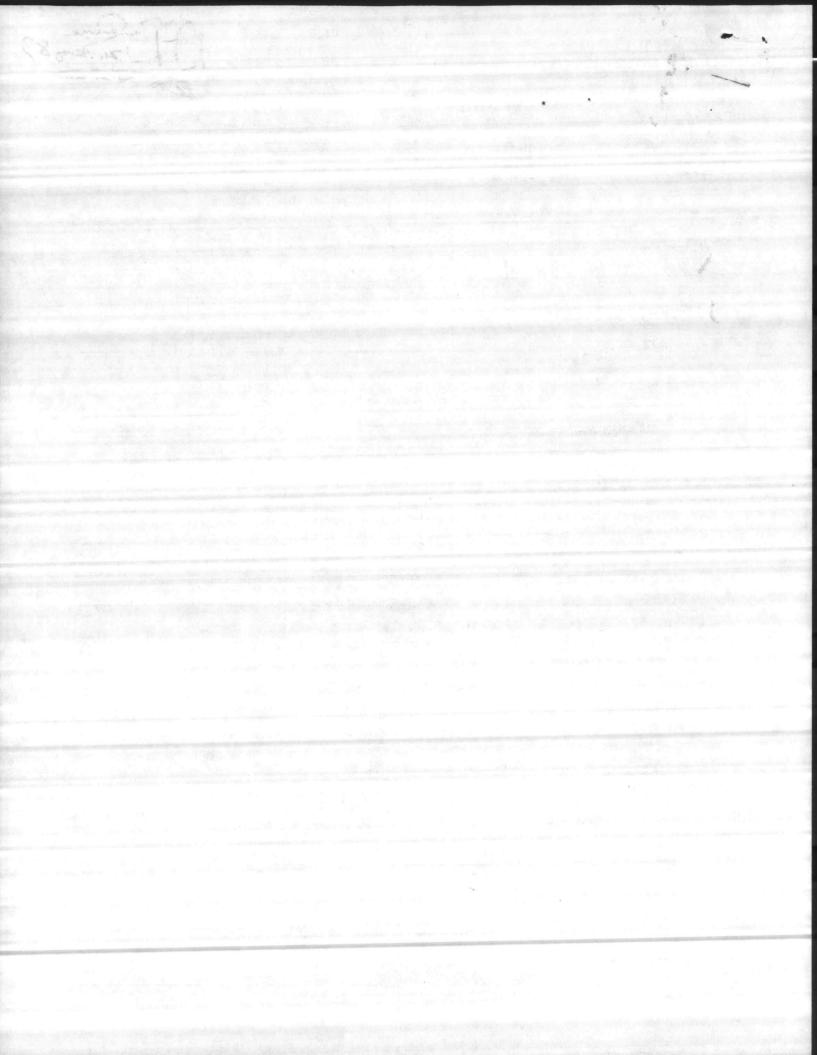
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MCBCL 11839/8 (REV. 4/78)

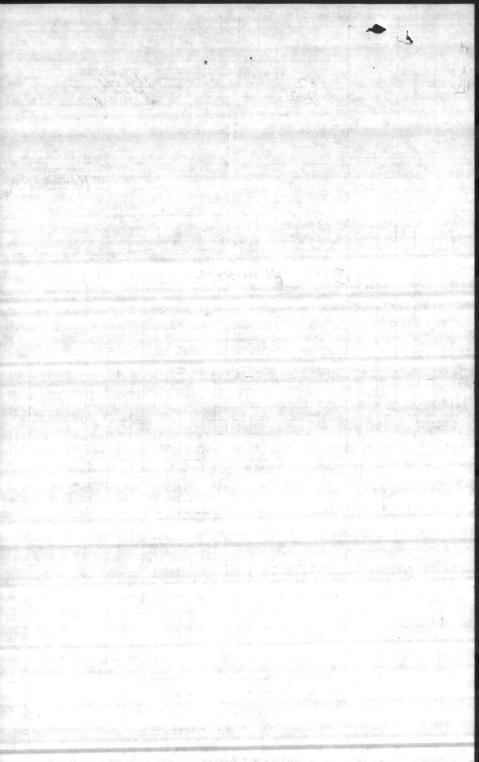
ATER TYPE POOL	SAMPLE COLLECTED BY		DATE COLLECTED 24 Hug 83 103
	WARET .		COLIFORM
LOCATION	MARKES	TOTAL	FECAL
TT Pool shallow and	550	8	2
shallow end	510	Ø	0
77 Pool Deep end	050	Ø	Ø
Deep end	P 10	6	0
	A retrieved the same		
	ti sain kali		
	(Charles Agent See		
	e e		

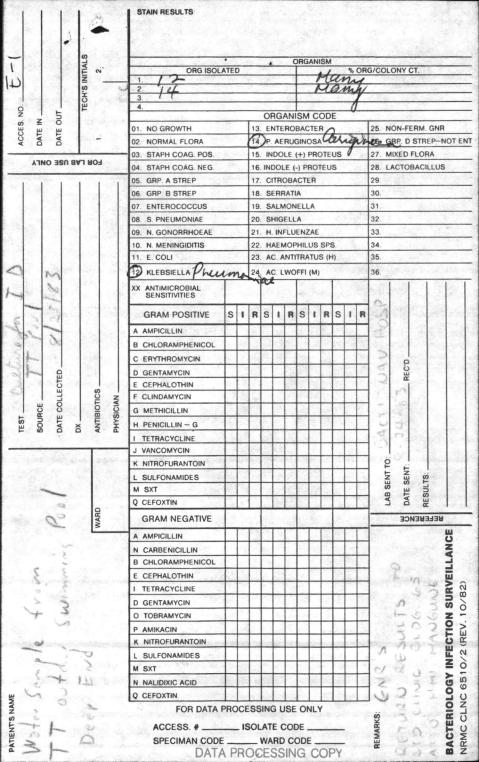
REMARKS		
	1/2	= 2.
	69.31	CONTRACTOR

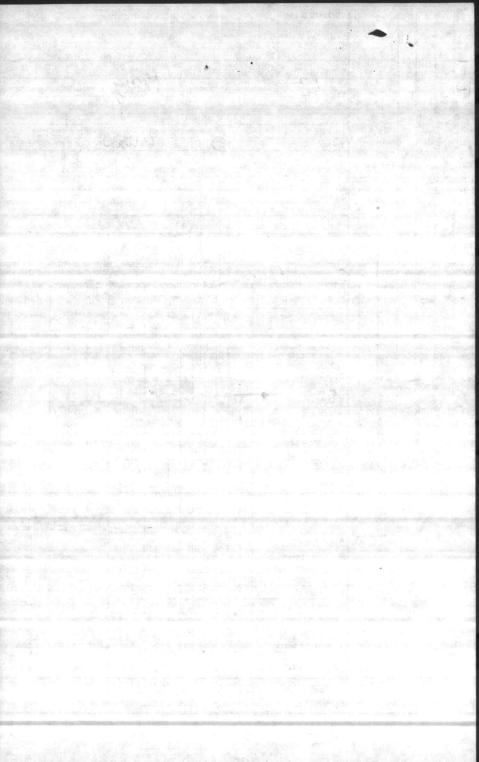
SIGNATURE	H Burs		DATE SUG	83
COPY TO				
NREAD		BASE PREVEN	TIVE MEDICINE	
UTILITIES DIRECTOR	a territoria	MCAS PREVEN	TIVE MEDICINE	
WATER TREATMENT PLANT	GENERAL FORBAN)		Contract of the second	











BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

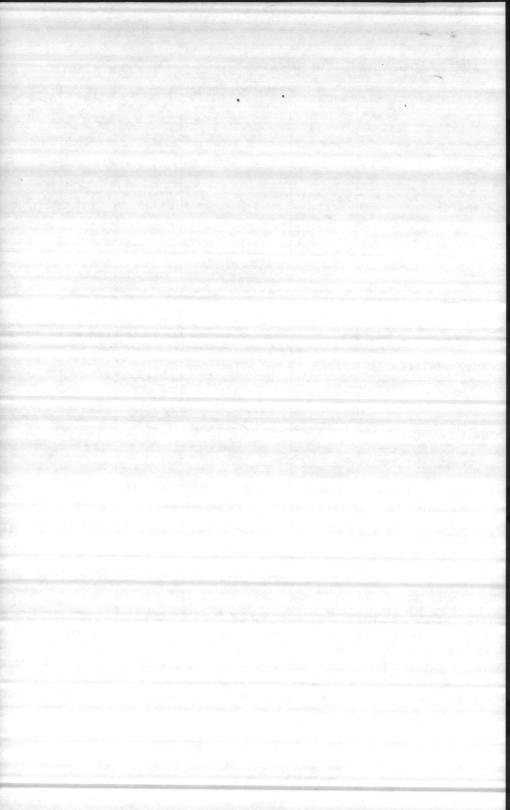
ARKED	COLIFORM COUNT M-ENDO MEDIUM	CHLORINE CHLORINE CHLORINE CHLORINE CHLORINE	1. S 1. O	0120 0155 0195 1020
	1	0.7	1.0	0755 0745 1620 1615
	1	0.2	1.0	1620
	1	0.4	1.0	1620
	1	·C. (a	1.0	1015
	1	·C. (a	1.0	1015
	1	0.1	1.4	
			/. /	0715
	4	1.0	1.3	1120
	1	11.0	1.3	1123
	1	1.0	1.2	0830
	4	3.0	1.5	0285
	Secured			
	75	2.0	1.0	0530
	61	2.0	6.8	0735
		Treat 75	9 3.0 t	9 3.0 1.5 Secured 95 2.0 1.0

REMARKS

TT Pool Samples have been set as for

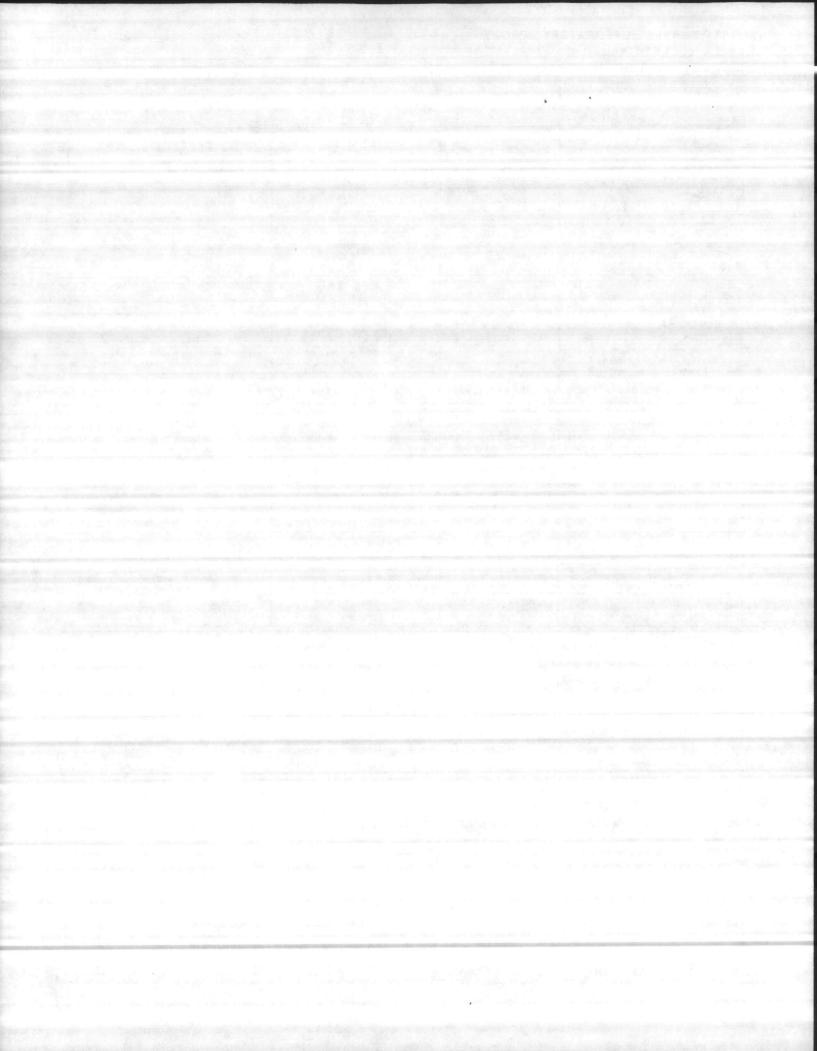
Conformation tests and was resumpted on

24. Jug 83.



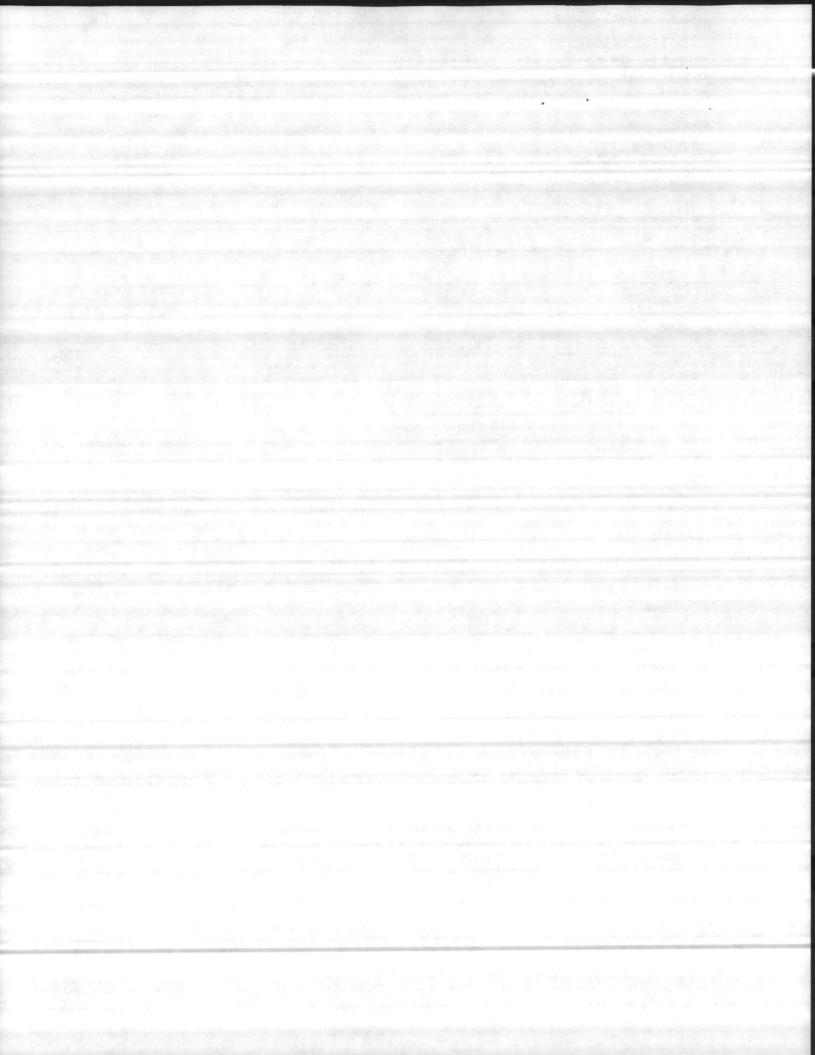
MCBCL 11330/8 (REV. 4/78)

Swimming.	sample collecter	Personnel	DATE COLLECTED 22 Hug 83
	The second second		JEORM 7749 03
LOCATION / /05	MARKED	TOTAL	FECAL
Thool Shallow end/ch 2.0		Ø	
Theol Deepend/c/22.0.	+ (4)	1 \$	
Clost occp cray co			
		A few many and the same	
	X No. 1		
	Total San	TOP TO SERVICE AND TO SERVICE.	
REMARKS Recd Lab 1220 22 Set up 1300 22	Aug 83 H	1260 210	Certial +
* Nunecous non- co SIGNATURE Flaires B. Sturege		ies.	DATE 23 Aug 83
СОРУ ТО			
NREAD		BASE PREVE	
UTILITIES DIRECTOR WATER TREATMENT PLANT		MCAS PREVE	NTIVE MEDICINE

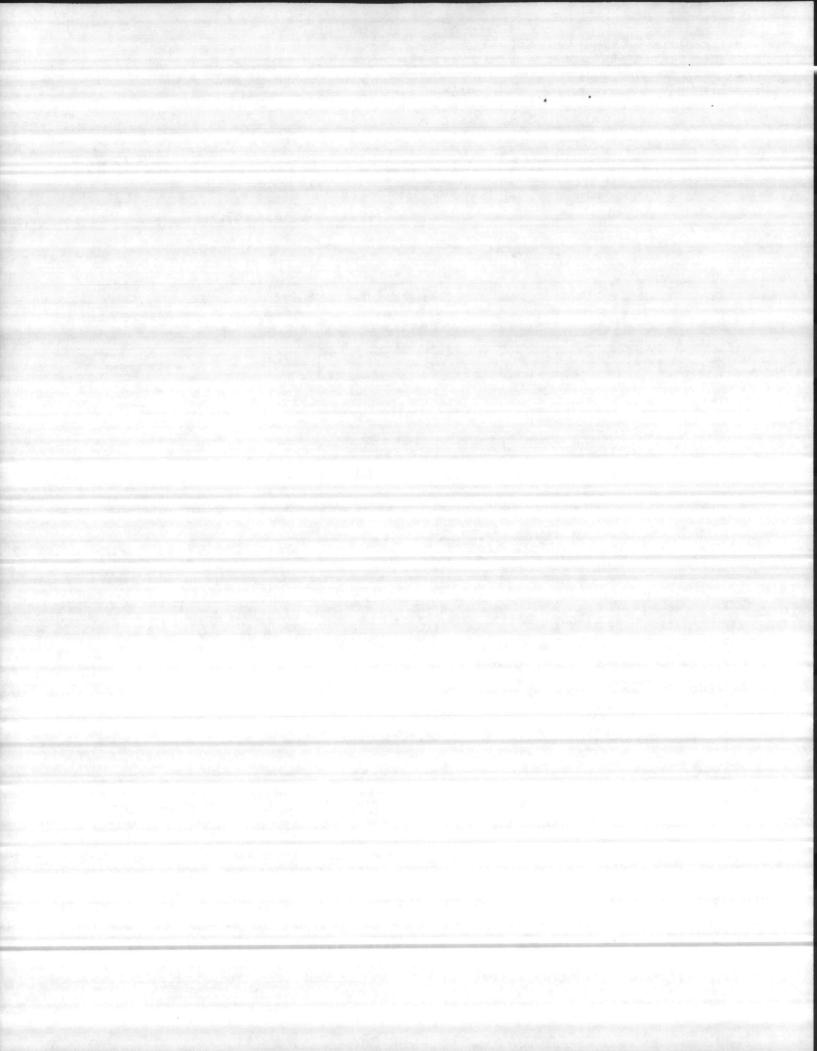


MCBCL 11330/8 (REV. 4/78)

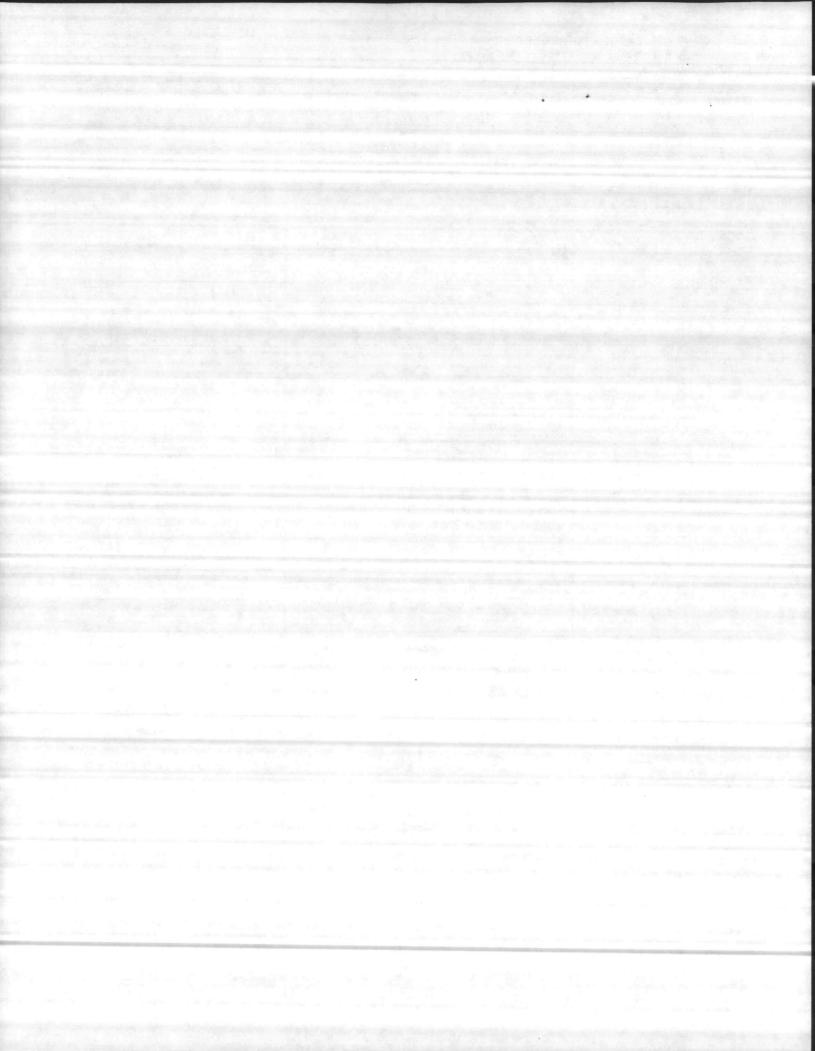
WATER TYPE	SAMPLE COLLECTED	BY	DATE COLLECTED
Swimming	Water Plan	nt Personnel	22 Aug 83
LOCATION	MARKED	TOTAL	FECAL
Thool Shallow Endich. Thool Deep End Ch. 2.		d	
1 1001 Shallow Endich	2.04	/	
TROOL Deep End/Ch. 2.	0+ (2)	9	
			A New York Control of the Control of
	1		1
The second secon			
	1000		
REMARKS			
led Led 0930	8/22/83 H		
Set 2 1015	8/22/83 #		
24 27 1011	and the second s		
(-1)	FNT 1	1-1-11	17
772002		1/ /	
		040 20	(2)
1 641	The state of the s		
f Contrals	<i>+</i> -		
Saine B. Spenes			DATE 23 Aug 83
тору то	/		1 - 1 - 1 - 3 - 3
		BASE PREVENT	IVE MEDICINE
		British and the second	
UTILITIES DIRECTOR		MCAS PREVEN	TIVE MEDICINE
WATER TREATMENT PLANT	(GENERAL FOREMAN)	File	



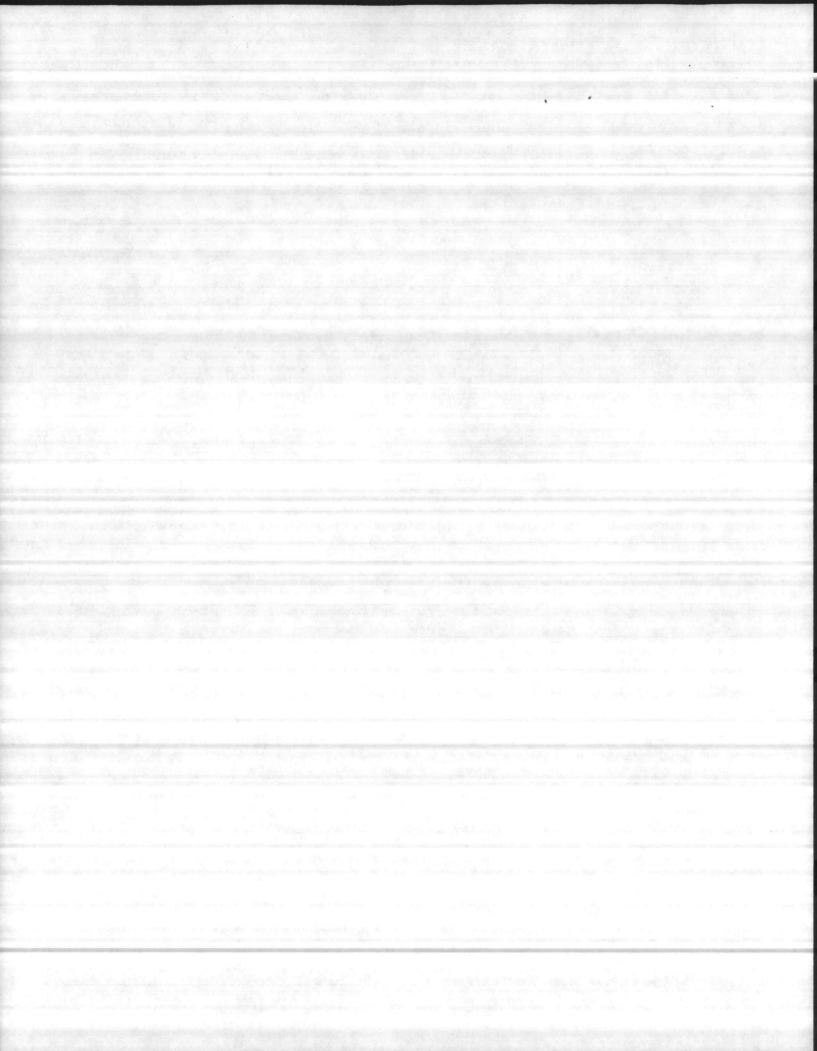
The state of the s	sample collected B Water Plant	Presentel	21 Aug 83
Swimming Pool		CO	LIFORM
LOCATION	MARKED	TOTAL	FECAL
1 Pool Deep End Ch 2.0+		of	al ny fivon'ny tronona ao amin'ny faritr'i Amerika. Ny INSEE dia mampiasa ny kaodim-paositra ny taona ao amin'ny faritr'i Amerika.
1 Tool Deep Evel Ch 2.0+			
TPO 1 Shallow End (1, 2,0+	(2)	d	
1 to 1) hallow End (1, 2,0+		- V	
		/	
	erale a suspensión per		The second secon
REMARKS	- 8/21/83 H		
REMARKS heed tal 0835 Set up 0900 8/2	8/21/83 H		2
Reed tal 0835 set up 0900 8/2	8/21/83 H	**	2
heed tal 0835	8/21/83 H	**	DATE 2 Aug //3
set up 0900 8/2	8/21/83 H 1/83 H	BASE PREVE	DATE 22 Aug 1/3 ENTIVE MEDICINE
Set up 0900 8/2 Set up 0900 8/2 SHATURE S. Herreycust	8/21/83 H 1/83 H		



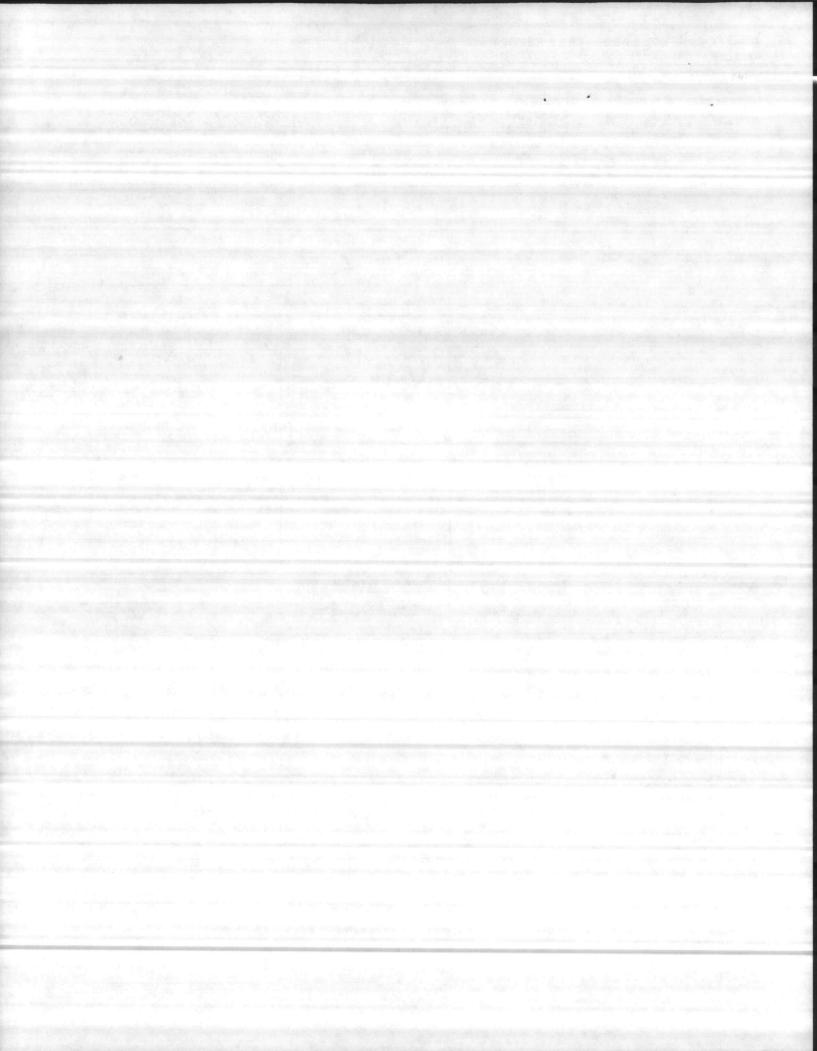
w.mming Pool	sample collected Water Plan	+ Personnel	DATE COLLE	183 1043
LOCATION	MARKED		COLIFORM	7044
/030		TOTAL		ECAL
Pool C/2 1, 3		3		
C/2 1.5 END	(2)	Ø		
11 Clz 1.5 End	(3)	Ø		
C.5 110 Evd		7		
		170		
		97		
		A STATE OF THE STA		
feed feb 110	00 8/20/83	#	Deep	End
				. 3
TT ROOL			4.8 1.5	
	Sh	allow of		
	En	ud is		
200	10.44	100		
	10.44	6.83		
1 01		The second second second second		
TURE	ett a		DATE 21	Aug 83
wer B. Muser a				
Y TO D. Yflistery Cl	/			
		BASE P	REVENTIVE MEDICIN	E



WATER TYPE Seumming	SAMPLE COLLECTE WAYER	Plant Personnel	DATE COLLECTED 19 AUG 83 / 125
		COLI	ORM
LOCATION C/20.5	MARKED	TOTAL	FECAL
TT Pool		840	
The second secon			
	· \		
			4
	189		
REMARKS /	9		
REMARKS 1140 8/19/8 Bed 49:1150 8/19/82	31		
0 1150 8/19/5	2 1		
set up 1150 0111100			
SIGNATURE			DATE 20 Ag / 53
	ull.		do Hig / 83
COPY TO			
NREAD		BASE PREVENT	TIVE MEDICINE
UTILITIES DIRECTOR		materials in the second of the control of the control	TIVE MEDICINE
O LILITIES DIRECTOR		MCA3 FREVEN	TIVE MEDICINE

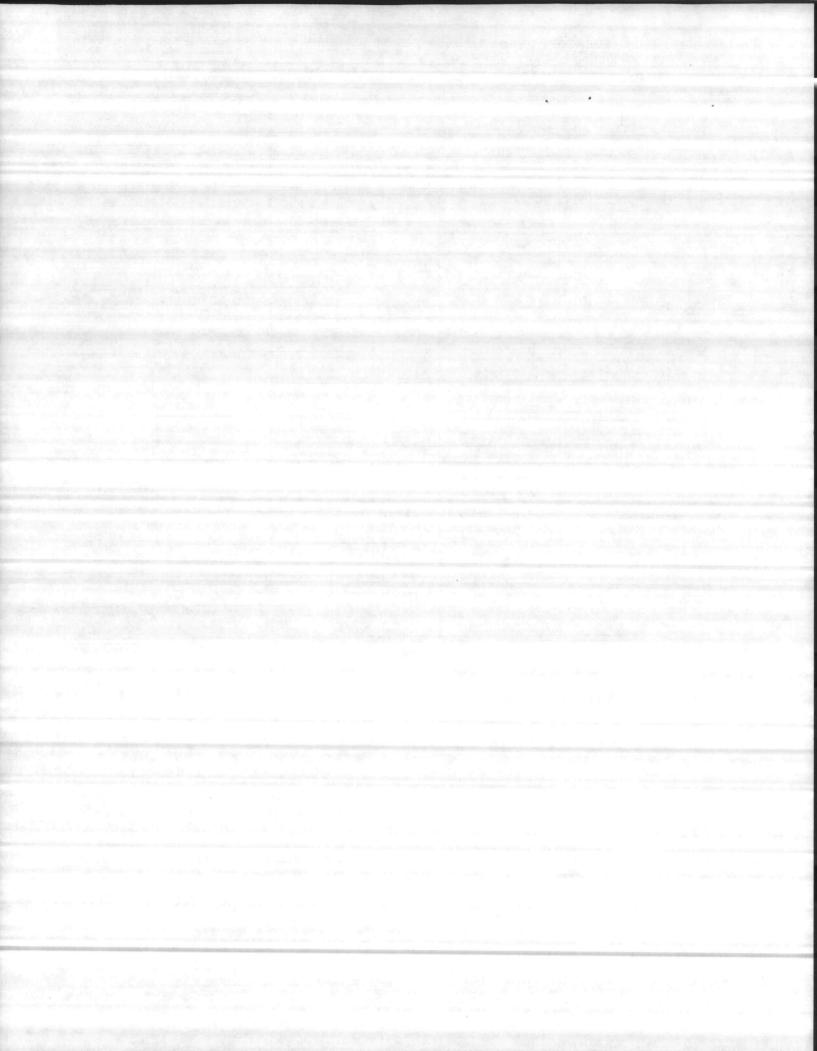


Swamming Swamming	SAMPLE COLLECTER With Please	+ Personal	8/18/83 /08/5
LOCATION	MARKED	C	OLIFORM /
PH 7.3	MARKED	TOTAL	FECAL
TT deal C12 1.3		3	
		A de la companya del companya de la companya del companya de la co	
	A CONTRACTOR OF THE CONTRACTOR		
		4	
Reed o	0830 8/18/83/	4	
			and the state of t
GNATURE COLLET	elpelle		DATE 8-19-83
OPY TO "		grand de la companya	
NREAD		BASE PREVI	ENTIVE MEDICINE
JUTILITIES DIRECTOR			ENTIVE MEDICINE
WATER TREATMENT PLAN	NT (GENERAL FOREMAN)	W Fil-	Contract of the second second second second second

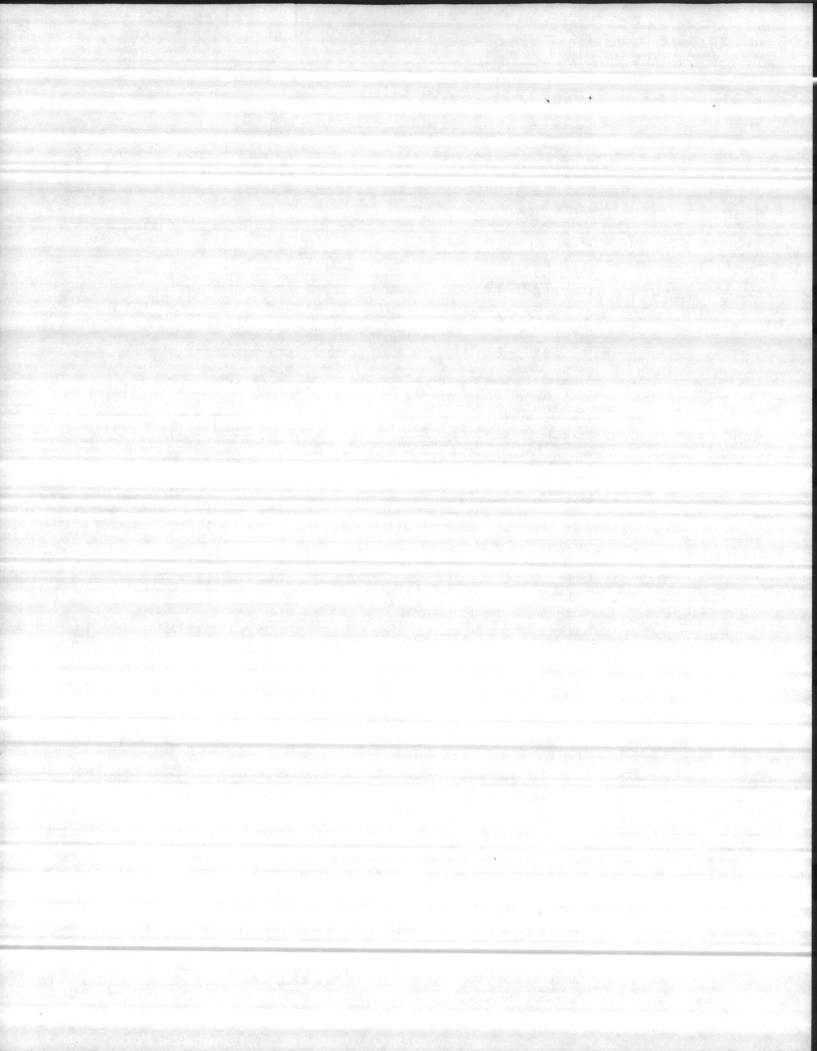


MCBCL 11889/8 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTE	ED BY	DATE COLLECTED
11 1205	1 4 2 1	+ 1001	11113 1725
LOCATION	MARKED	TOTAL	COLIFORM
	G	Ø	
1 7 7 10		1	
1. 11.		1	
The Control of the Co		g Min or War to see the North State of Contract Charles and See to	
	140.	n with the proper	
REMARKS		· Attack to the	
leed 1030 3/17/83	tr .		
1 40 1160 3/17/13			
		The constitution of the co	
SIGNATURE			Tours .
egod komitika en fasa i fasa 194	1		DATE
COPY TO			
NREAD		BASE PRE	VENTIVE MEDICINE
UTILITIES DIRECTOR			EVENTIVE MEDICINE
WATER TREATMENT PLAN	NT (CENEDAL FOREMAN)		TENTIVE MEDICINE



WATER TYPE	SAMPLE COLLECTED	DBY	DATE COLLECTED 0123		
		COL	COLIFORM		
LOCATION	MARKED	TOTAL	FECAL		
I How . O.	5 , . (
Laters Viving to 2					
		9			
1. 1. like 12 6.5	(3)	6			
	13000	9			
	2010/01/20				
			and the state of the state of		
		H			
10	The William Co.				
		0.00			
	1 min on 1 m				
	A CONTRACTOR				
REMARKS	4	AND COLUMN			
and 113 1130 8/1/53	pagina a presiden				
	#				
ct up 1100 3/11/33					
d up 1100 3/11/33		和"人"的"人"			
ct up 1100 SIN/33					
ct us 1100 SIN/33					
ct uz 1100 SIN/33					
c4 uz 1100 S117/33					
ct us 1100 \$117/33					
et us 1100 \$111/33					
			DATE		
SIGNATURE & June 11			DATE		
SIGNATURE of Janes 11			DATE		
SIGNATURE J June 11	4	BASE PREVEN			
June & June 4		the second secon	DATE ITIVE MEDICINE ITIVE MEDICINE		

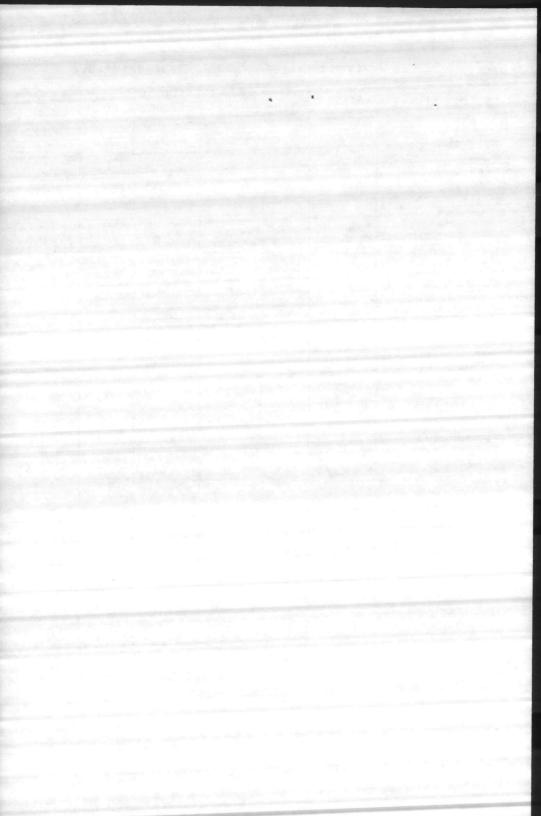


BACTERIOL	OCICAL	ANAL YSIS	OF WATER
BALIERIUL	UGICAL	ANALISIS	OF MAICK

NON-REPORTABLE

WATER SAMPLES	R SAMPLES MARKED , COLIFORM CO		RESIDUAL CHLORINE	рН	TIME
BB-97		1	0.4		0825
FC-19			0.7		1012
SH-8			0.6		1000
TT BOI		TATC	6.3	7.3	0155
M.P. POOL		1	0.7	1.2	1115
#2 POOL			0.6	1.4	0316
#5 POOL			0.7	7.6	1015
P. P. POOL			0.6	1.3	1030
P. P. BABY POOL			06	7.3	1040
MCAS E-POOL			1.0	8.1	0835
MCAS O-POOL		1	0.4	6.9	6100
MCAS BABY POOL		Secured			
ICE B/4. 1300		ø.			0925
					o Alexandra

Presented 111/3 by when that remails and



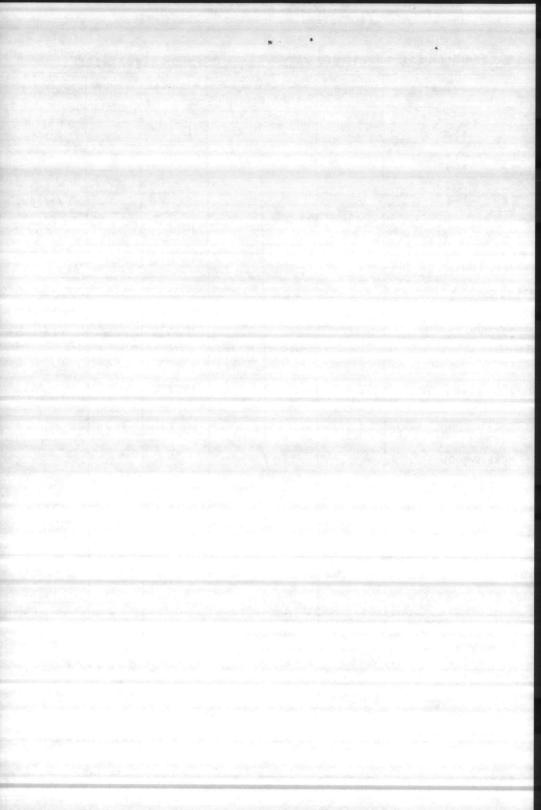
BACTERIOL	OCICAL	ANAI VEIC	OF WATED
DALIERIUL	UGICAL	ANALISIS	UP WAIEK

NON-REPORTABLE

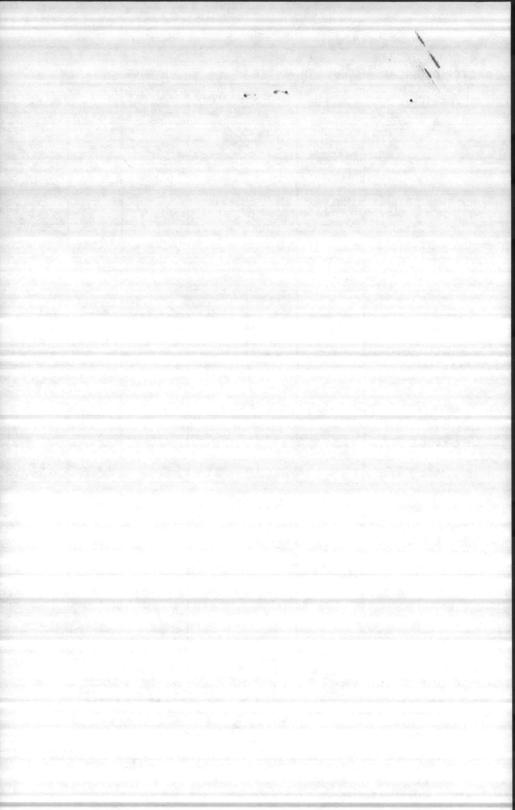
WATER SAMPLES	MARKED	COLIFORM COUNT	RESIDUAL CHLORINE	рΗ	TIME
BB-97		ф	1.0		0930
FC-19			0.5		0152
SH-8			0.7		0945
T.T. Pool			1.0	7.0	1030
M.P. POOL			0.5	7.4	1115
#2 POOL			0.8	78	1110
#5 POOL			1.0	76	1015
P. P. POOL			0.5	1.2	1045
P. P. BABY POOL			0.5	7.2	1045
MCAS E-POOL		<u> </u>	0.6	7.1	0840
MCAS O-POOL		ψ	0.5	7.0	0855
MCAS BABY POOL		Chosen	- The same of the		-
ICE SAMPLE	4970	p.		TWO IS NOT THE PARTY.	and Life
BLNG 1300		ļ			

REMARKS

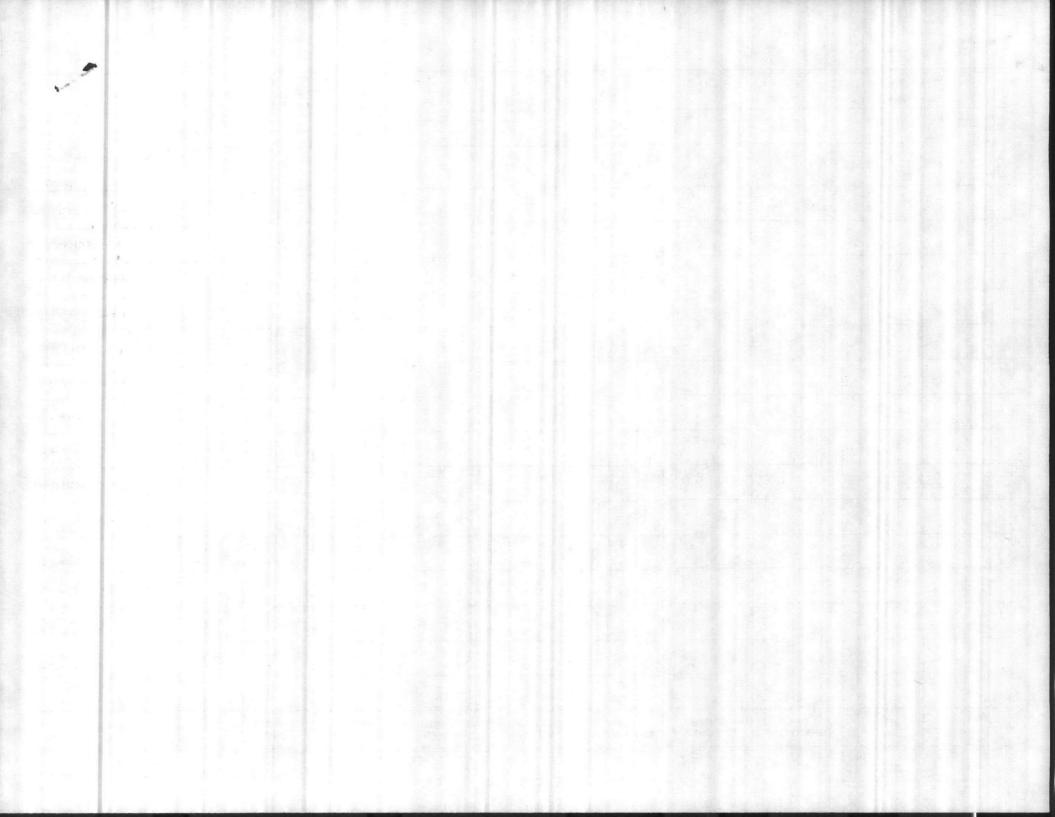
SH-8 OUPERROUN NON-COLIFORT



ACTERIOLOGICAL ANALYSIS OF WATER		NON-REPORTABLE		
MARKED	M-ENDO MEDIUM	CHLORINE	рН	TIME
	Ø	1.2		0845
	Ø A	0.4		1040
	W *	0.4		1025
	\$ *	0.3	7.3	6930
	Ø	0.9	7.6	1130
		0.6	7.2	0840
		0.0	8.0	0820
		0.6	7.2	1110
		0.6	7,2	1105
		1.2	7:1	0830
	1	0.7	7.1	0840
	Secured			
	9			0905
	MARKED	M-ENDO MEDIUM	MARKED M-ENDO MEDIUM CHLORINE	MARKED M-ENDO MEDIUM CHLORINE PH



CHEMICAL ANALYSIS - WATER TREATMENT PLANTS DATE COLLECTED MCBCL 11330/3 (REV. 3-82) 31 AUGUST HADNOT MONTFORD TARAWA ONSLOW COURTHOUSE RIFLE HOLCOMB NEW PARAMETER POINT POINT TERRACE BEACH BAY RANGE BLVD RIVER PENOLTHALEIN ALKALINITY METHYL ORANGE ALKALINITY CARBONATES AS CaCO3 **BICARBONATES** AS CaCO₃ **CHLORIDES AS C1** 70 HARDNESS AS CaCO3 604 **IRON AS Fe FLUORIDE CHLORINE RESIDUAL** 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 DATE OF ANALYSIS

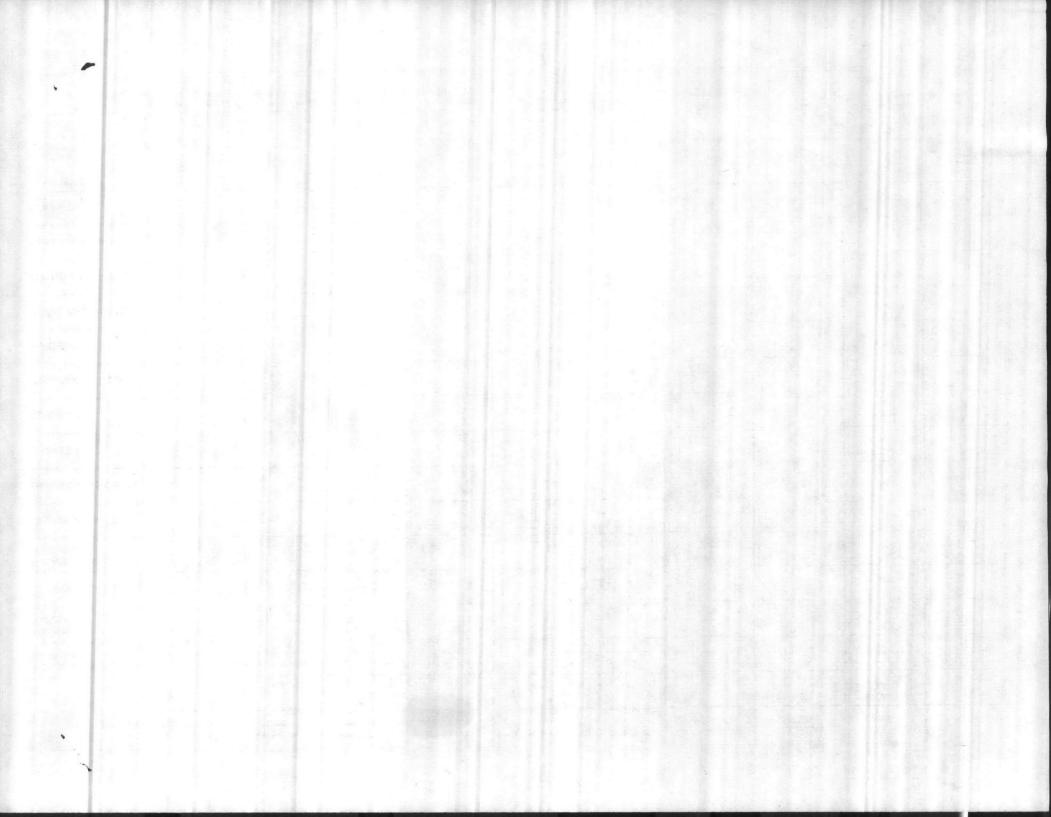


CHEMICAL ANALYSIS — WATER TREATMENT PLANTS MCBCL 11530/3 (REV. 3-82) DATE COLLECTED 1983 26 AUG HADNOT MONTFORD TARAWA ONSLOW COURTHOUSE RIFLE HOLCOMB NEW PERRACE PARAMETER POINT POINT BEACH BAY RANGE BLVD RIVER 8.29 6.91 7.88 **PENOLTHALEIN** ALKALINITY 0 METHYL ORANGE ALKALINITY 12 36 10 CARBONATES AS CaCO₃ 0 **BICARBONATES** 12 AS CaCO₃ 36 10 76 **CHLORIDES AS C1** 68 HARDNESS AS CaCO3 **IRON AS Fe** FLUORIDE FREE 2.1 CHLORINE RESIDUAL 0 TURBIDITY **TOTAL PHOSPHATE** ORTHO PHOSPHATE META PHOSPHATE STABILITY REMARKS

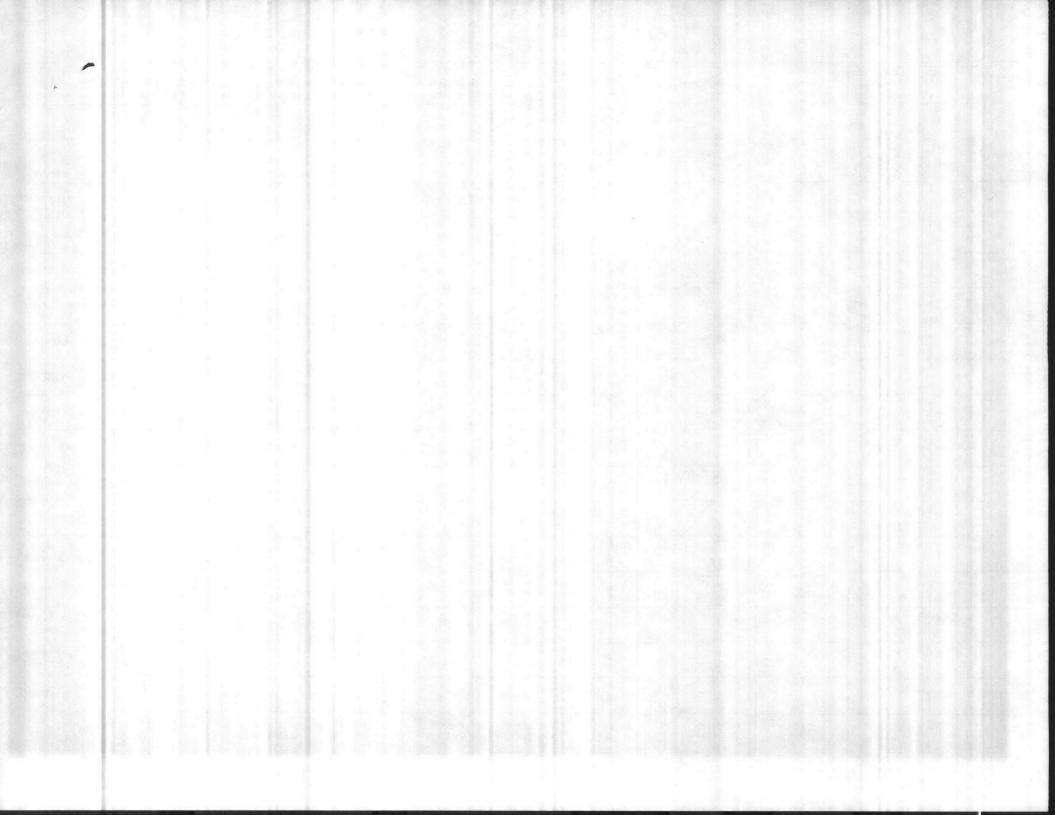
NOTE:	All results reported in parts per million unless otherwise noted except for pH, temperature
	and specific conductance. One liter of potable water is assumed to weigh one kilogram

LABORATORY ANALYSIS BY

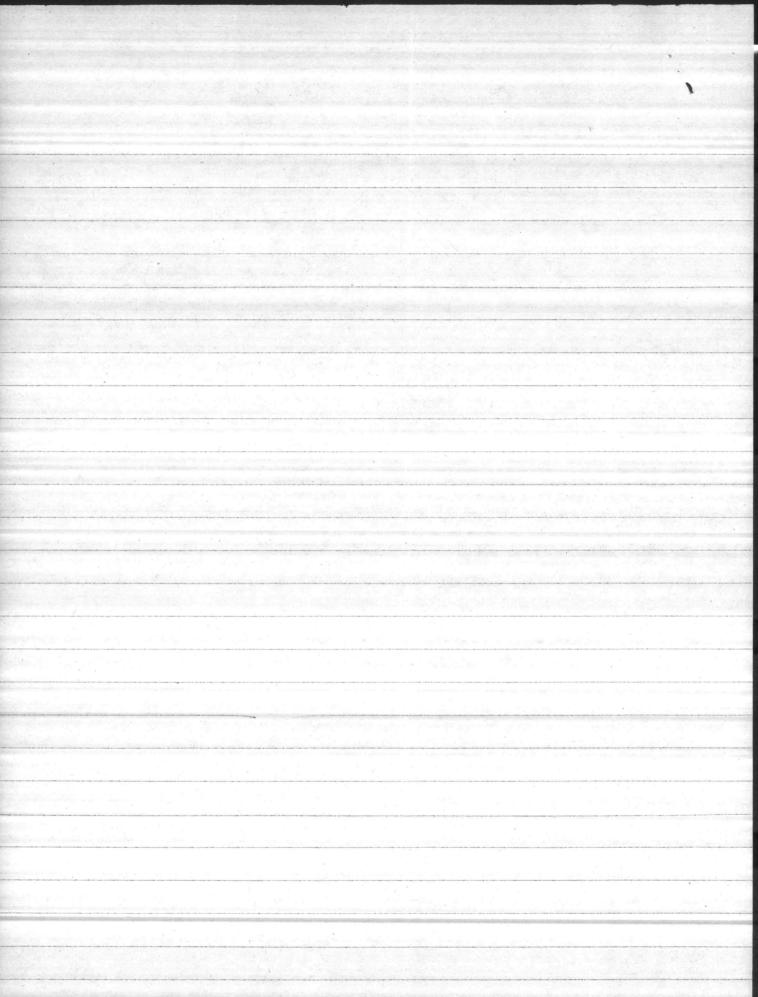
DATE OF ANALYSIS



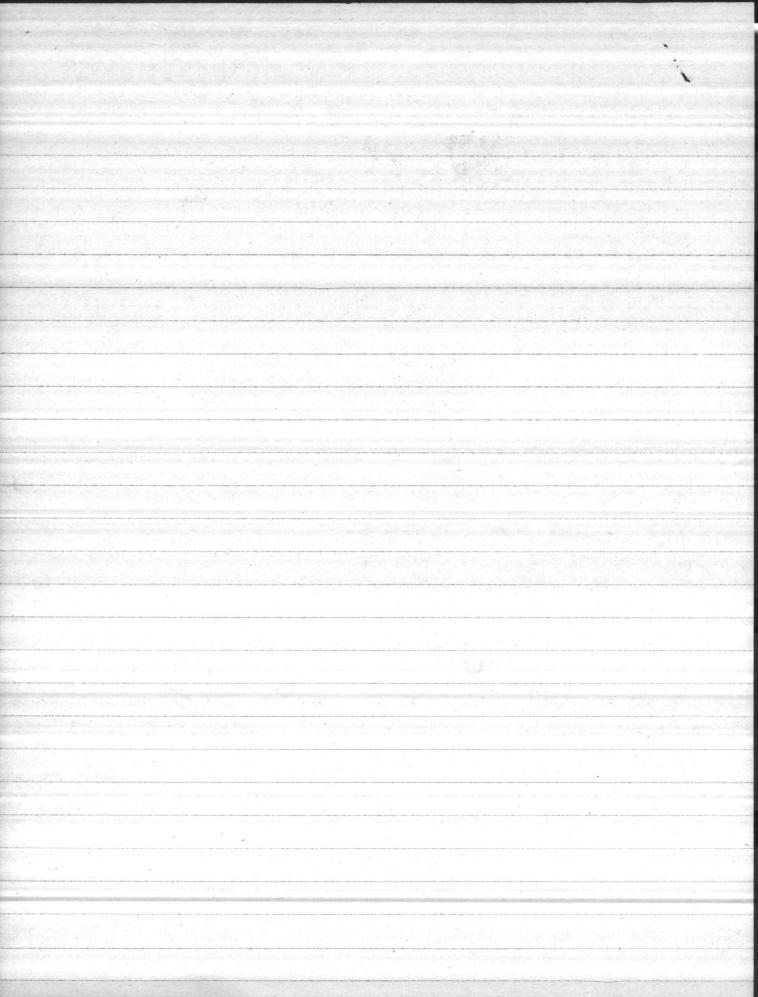
DATE COLLECTED CHEMICAL ANALYSIS - WATER TREATMENT PLANTS MCBCL 1:330/3 (REV. 3-82) TT Line COURTHOUSE MONTEORD TARAWA ONSLOW RIFLE HOLCOMB NEW HADNOT POINT-POINT TERRACE BEACH BAY RANGE BLVD RIVER PARAMETER PH 1.1% 1.11 10.11 PENOLTHALEIN ALKALINITY 0 0 METHYL ORANGE ALKALINITY 10 12 CARBONATES AS CaCO3 () 0 **BICARBONATES** AS CaCO3 10 **CHLORIDES AS C1** 11. 2-HARDNESS AS ÇaCO3 108 10 **IRON AS Fe** FLUORIDE CHLORINE RESIDUAL 2.1 TURBIDITY **TOTAL PHOSPHATE ORTHO PHOSPHATE** META PHOSPHATE STABILITY REMARKS LABORATORY ANALYSIS BY NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, DATE OF ANALYSIS and specific conductance. One liter of potable water is assumed to weigh one kilogram. 26 Action 198



	Cb	PH	Chlorides
SIZ MALKER ACKOSS POOL	1.8	4,3	280
Swim Platform	2.1	4,2	280
Deep END	1.9	4,3	280



PH = 8.0 (
fru Revis 00 2 0.3 8/25/83
1400 Hardness 140 Alpolinity: Phenophhalon 0 melhy arange 0.5 × 20 - 10



Memorandum

23 August 1983 DATE:

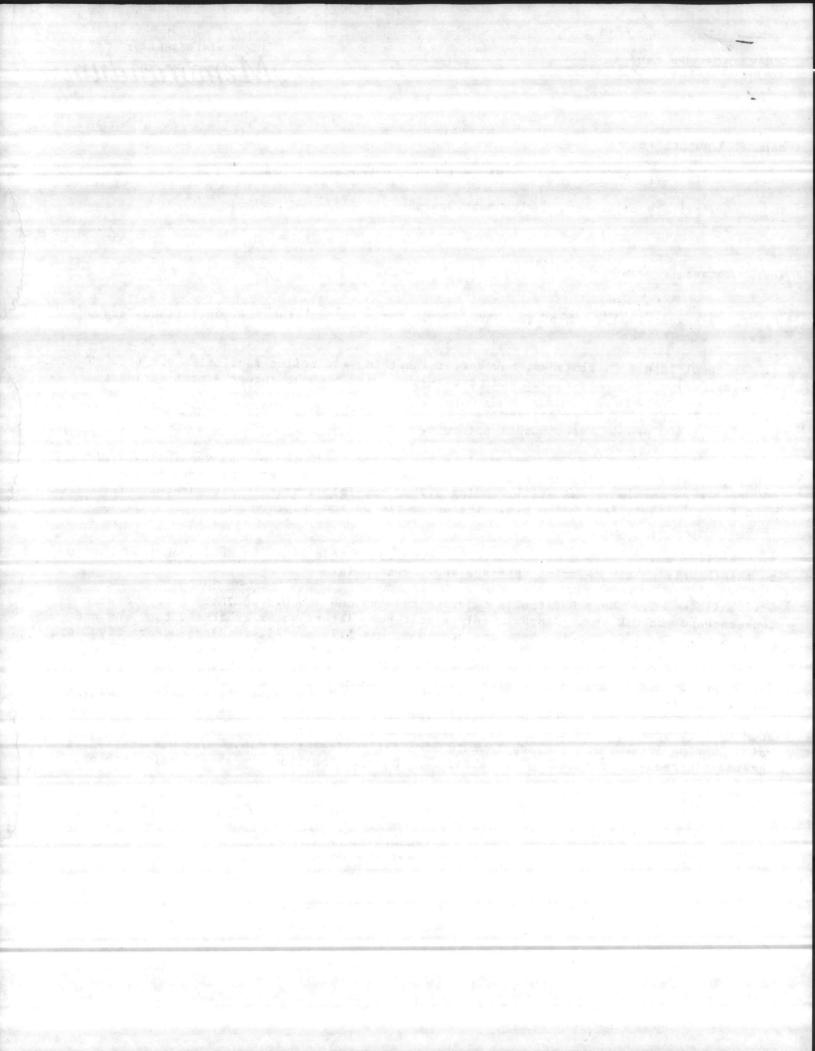
Supervisroy Chemist, Quality Control Lab, Environmental Branch FROM:

Supervisory Ecologist, Environment Branch TO:

Tarawa Terrace SUBJ:

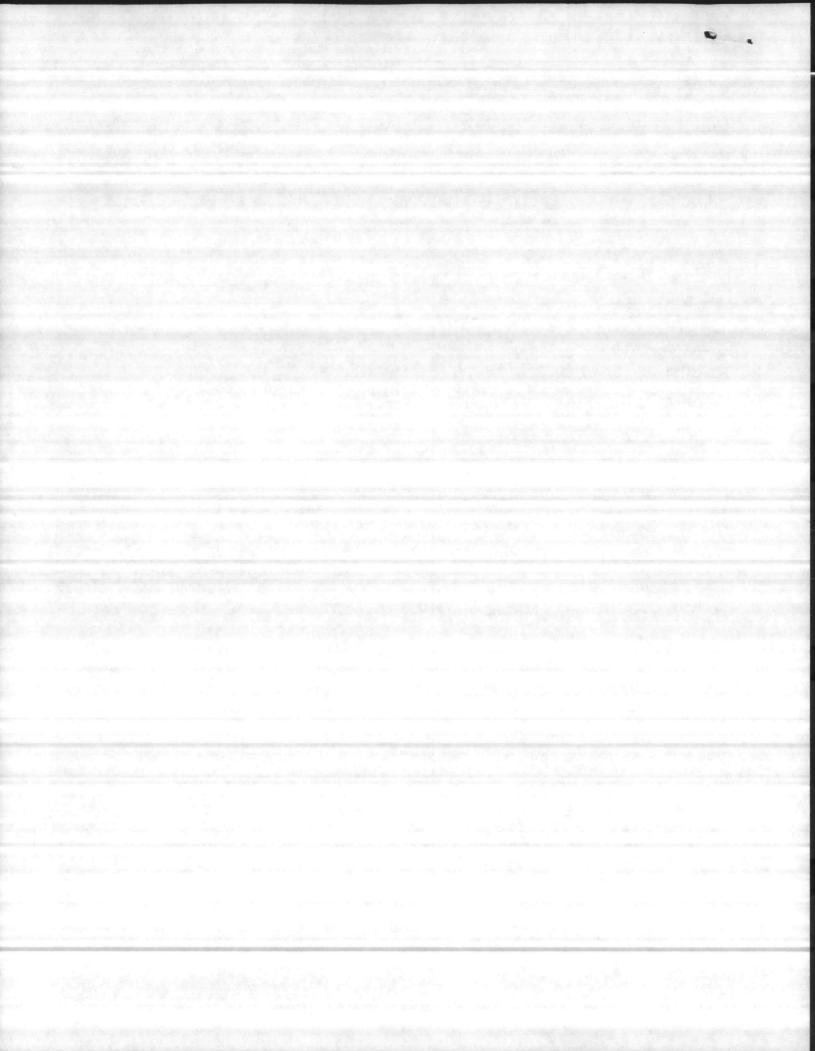
- 1. On 22 August 1983, Lt Henderson and I wnet for a tour of the new, unfinished Tarawa Terrace Swimming Pool.
- 2. The pool itself is finished, however, the bathing and toilet facilities are not. To open the pool a temporary shower and port-a-johns were brought into the pool enclosure.
- 3. On 21 August 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 6.88or possibly less. The comparator method used for pH doesn't read below 6.8. The automptic pH and chlorian monitor was disabled w when I was there.
- 5. The life guards have a pH and chlorine comparator test kit. Lt Henderson told them t to take hourly pH and chlorine readings and log them in.
- 6 . While we were there PMU took a chlorism reading and got 0.2 ppm, the pool operator took eachand got 0.0 ppm. Approximately a half hour later, water treatment took one and got 1.0ppm. The 1300 reading by water treatment was 1.7ppm. 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 selutions 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 yesterddayI would have called less than 6.8. That was at 1345, t theseaustic sods had been added for about four hours. Caustic sods should raise the pH.

Supervisory Chemist



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 I	health/sanitation inspection of TARAWA
TERRACE POOL	was conducted on 05 AVG 83 by
HM' TOOMEY, HWZ GainES, HM3 Floy!	was conducted on <u>O5 AUG 83</u> by ngs and recommended corrective action are as follows.
AN . INDICATES THAT THE FINDING HAS BEEN PREVIOUSLY	Y REPORTED.
FINDINGS	RECOMMENDED CORRECTIVE ACTION
1. Shower Facilities - a-Interiors Have been paid b-Lighting has been ins c-Ventilation has been in d-Bar Soap will be util Added to the facilities	1200 till SOAP dispensers ARE
Work is complete. Poul a facilities are NOT placed b- ON CALL Service established to INSURE P	wher sanitation levers a
b - Vent from installed c - MASK available for	and operating correctly. - Emergency USE.
a - computer Now 1 b - poul operator w	ith access to TEST kit and
Copy to: AC/S Personnel Sovices When the	ATIS FACTORY - IF Above REcommendations LUSA APPROVED: ARE FOLLOWED. OLL USMC G. L. WINTERS



FROM: Head, Occupational & Preventive Medicine Department

TO: Special Services Officer, MCB, Camp Lejeune, NC

RECOMMENDED CORRECTIVE ACTION

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1. In accordance with reference (a) an environmental	health/sanitation inspection of TT SWIMMING	
POOL	was conducted on 2 AUG 83	by
11 22 11 - 1		-

HMC POPE 7 HMZ GAINES . Findings and recommended corrective action are as follows.

AN . INDICATES THAT THE FINDING HAS BEEN PREVIOUSLY REPORTED.

FINDINGS

1. SHOWER FACILITIES -

- a. INTERIOR WALLS AND FLOORS MUST BE PAINTED
- b. ADEQUATE LIGHTING MUST BE INSTALLED
- C. ADEQUATE VENTILATION MUST BE PROVIDED
- d. SOAP DISPENSERS ARE REQUIRED IN SHOWERS

2. TOTLET FACILITIES

- a. PORT A TOAMS ARE PLACED DUTSIDE OF THE SERVICE AREA. RELOCATE FOR EASY PATRON ACCESS AND TO AVOID TRACKING SOIL AND DEBRIES INTO THE POOL AREA.
- b. IN EXTLEAMLY HOT WEATHER, SERVILING THE PORT A JOHNS ONLY THREE TIMES WEEKLY MAY BE INADEQUATE. PROVISIONS SHOULD BE MOSE FOR ON CALL SERVICE.
- 3. CHLORINE STORAGE THE FOLLOWING SAFETY DISCREPANCIES SHOULD BE CORRECTED PRIOR TO OPENING:
 - a. CYLINDERS ARE NOT SECURED.
 - b. VENT FAN IS NOT INSTALLED.
 - C. PROTECTIVE MASK IS NOT AVAILABLE FOR EMERGENCY ENTRY.
- 4. CHLORINE /PAREADINGS NO COMPUTOR HOCKUP MUST BE MONITORED BY WATCH.
 - a. POOL OPERATOR SHOULD HAVE ACCESS TO READINGS OR SHOULD BE PROVIDED WITH A TEST KIT. BAJON HMC

2. The overall sanitary condition was found to be: NOT READY FOR OPENING

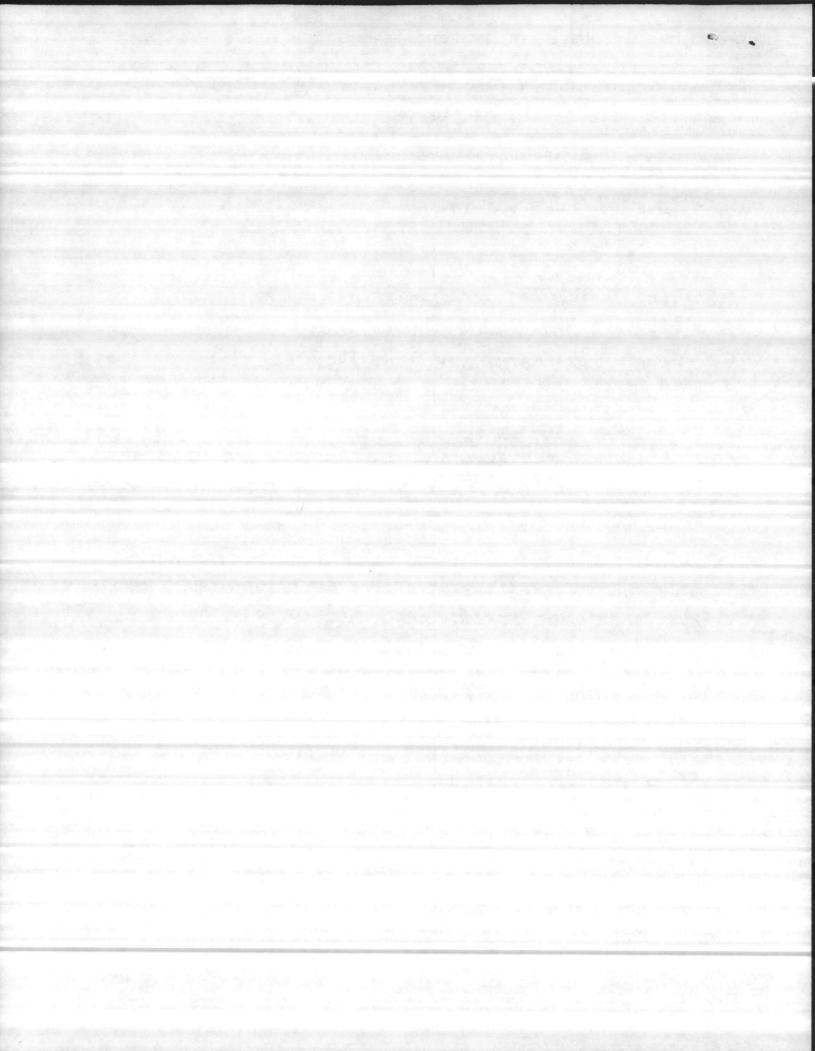
Copy to: AC/S Personnel Services Facility

File

APPROVED: -

G. L. WINTERS

TO BE REINSPECTED 5 A46 83



()n

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

1N REPLY REFER TO 62:RDC:dlm 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

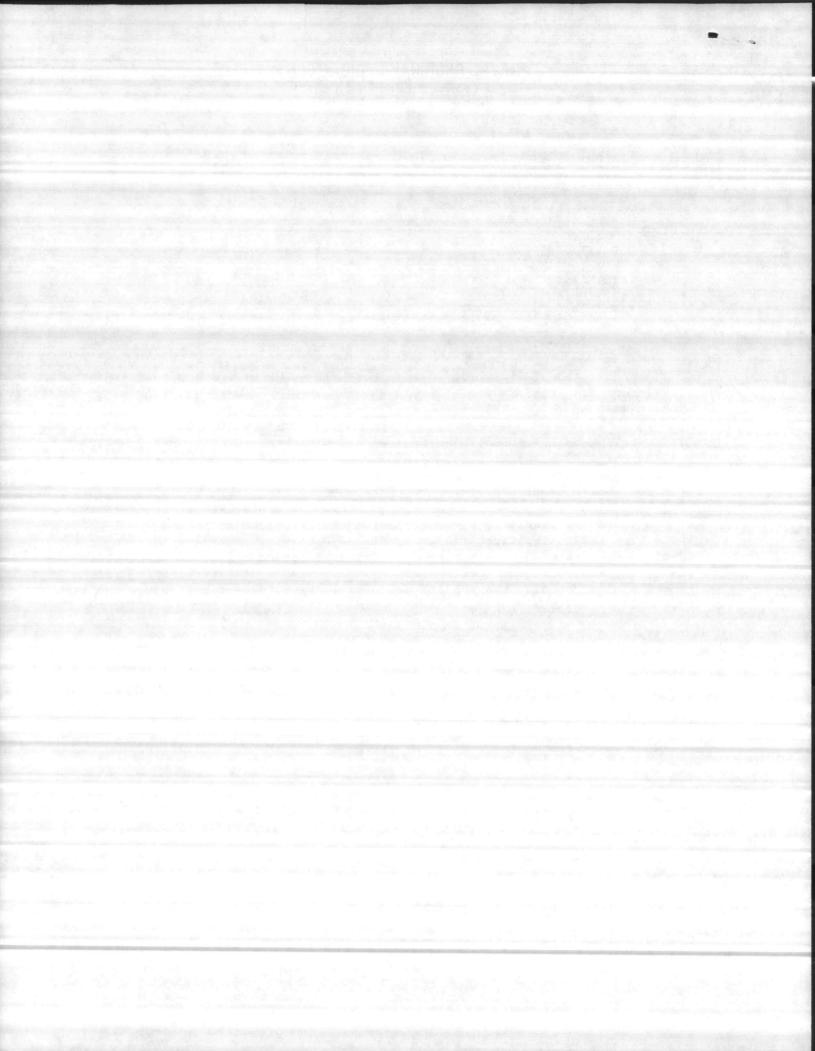
Ref: (a) NAVMED P-5010, Chapter 4

(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. <u>Background</u>. 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 samitary 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.

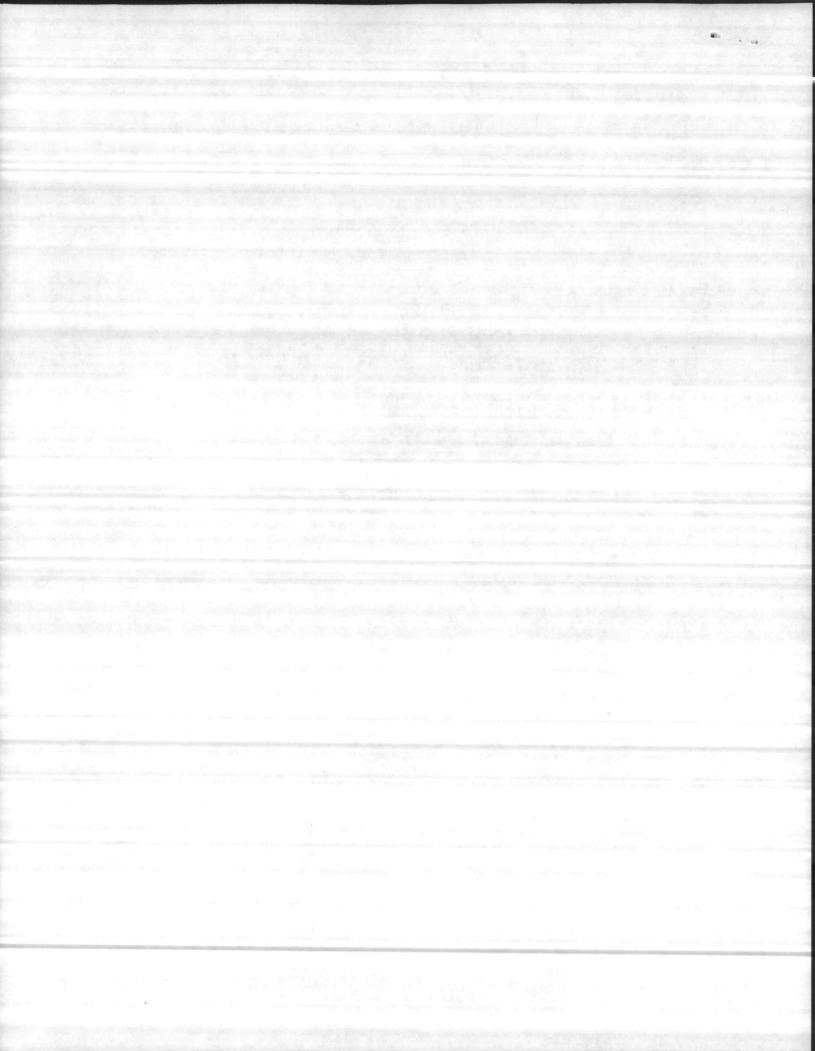


Subj: Sanitary Requirements for the Tarawa Terrace Pool

- f. Adequate, easily cleanable waste receptacles should be provided.
- g. Dirt and grassy areas are prohibited.
- h. <u>Personal Regulations for Swimmers</u> 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 unslightliness 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.

