

Pink

NREAD/DDS/th
6280/1

9 AUG 1983

From: Commanding General
To: Commanding Officer, Naval Hospital, Camp Lejeune, NC 28542

Subj: Water Quality Monitoring and Related Environmental Health Considerations

Ref: (a) CG MCB ltr NREAD/DDS/th 11330/2 of 19 May 1983

- Encl:
- (1) Weekly Chemical Analysis of Drinking Water
 - (2) Weekly Bacteriological Analysis of Drinking Water
 - (3) Weekly NRMC Ice Samples Bacteriological Analysis
 - (4) Recreational Areas Bacteriological Analysis
 - (5) Analysis of Complaint Samples
 - (6) Analysis of Water Samples from Military Units in the Field

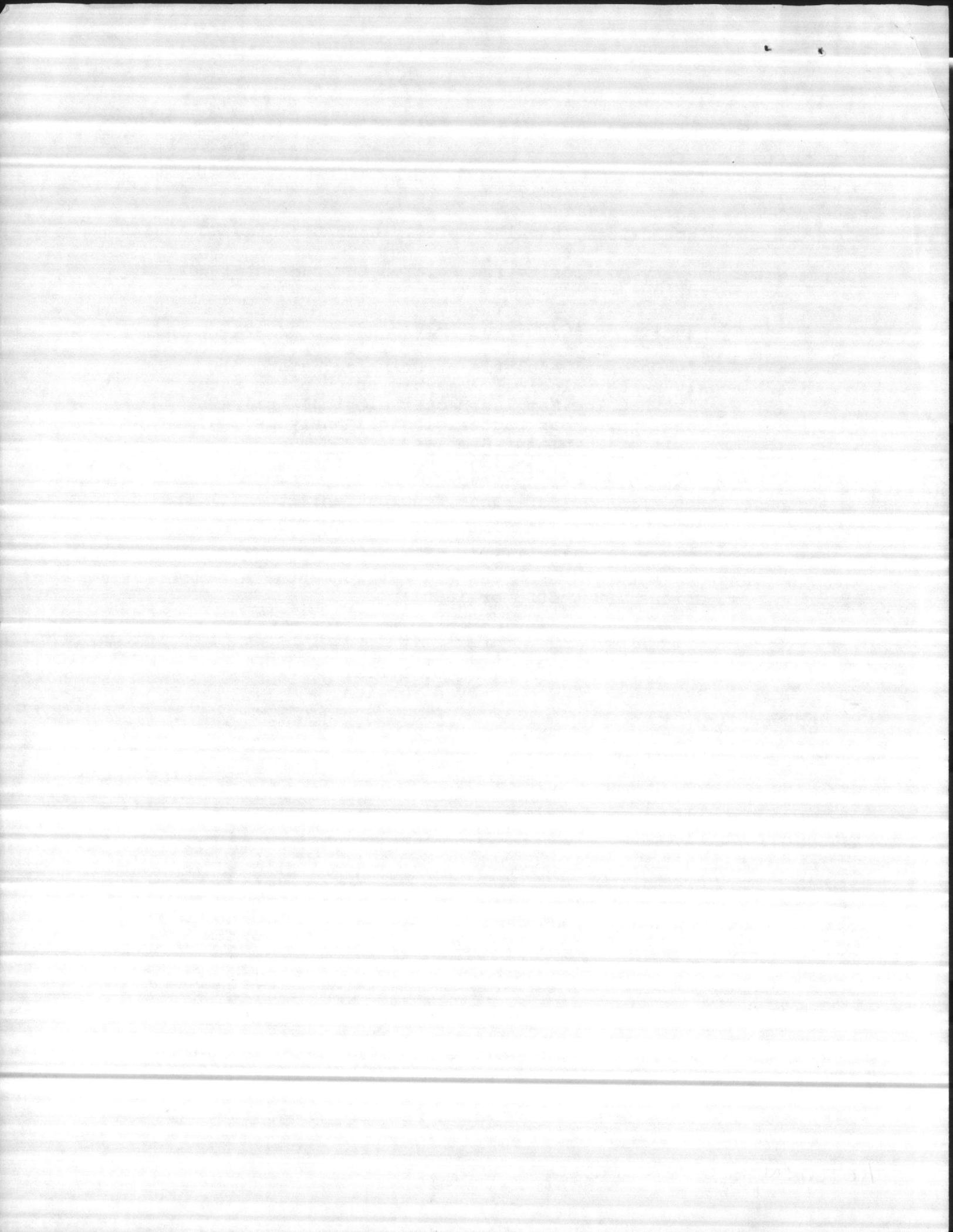
1. In accordance with the reference, enclosures (1) - (6) are forwarded for information.

2. Questions regarding this matter should be forwarded to Mr. Danny Sharpe, Natural Resources and Environmental Affairs Division, extensions 2083, 5003 or 1690.

M. G. LILLEY
By direction

Blind copy to:
Supvy Chemist, QCL

RETURN TO NREAD



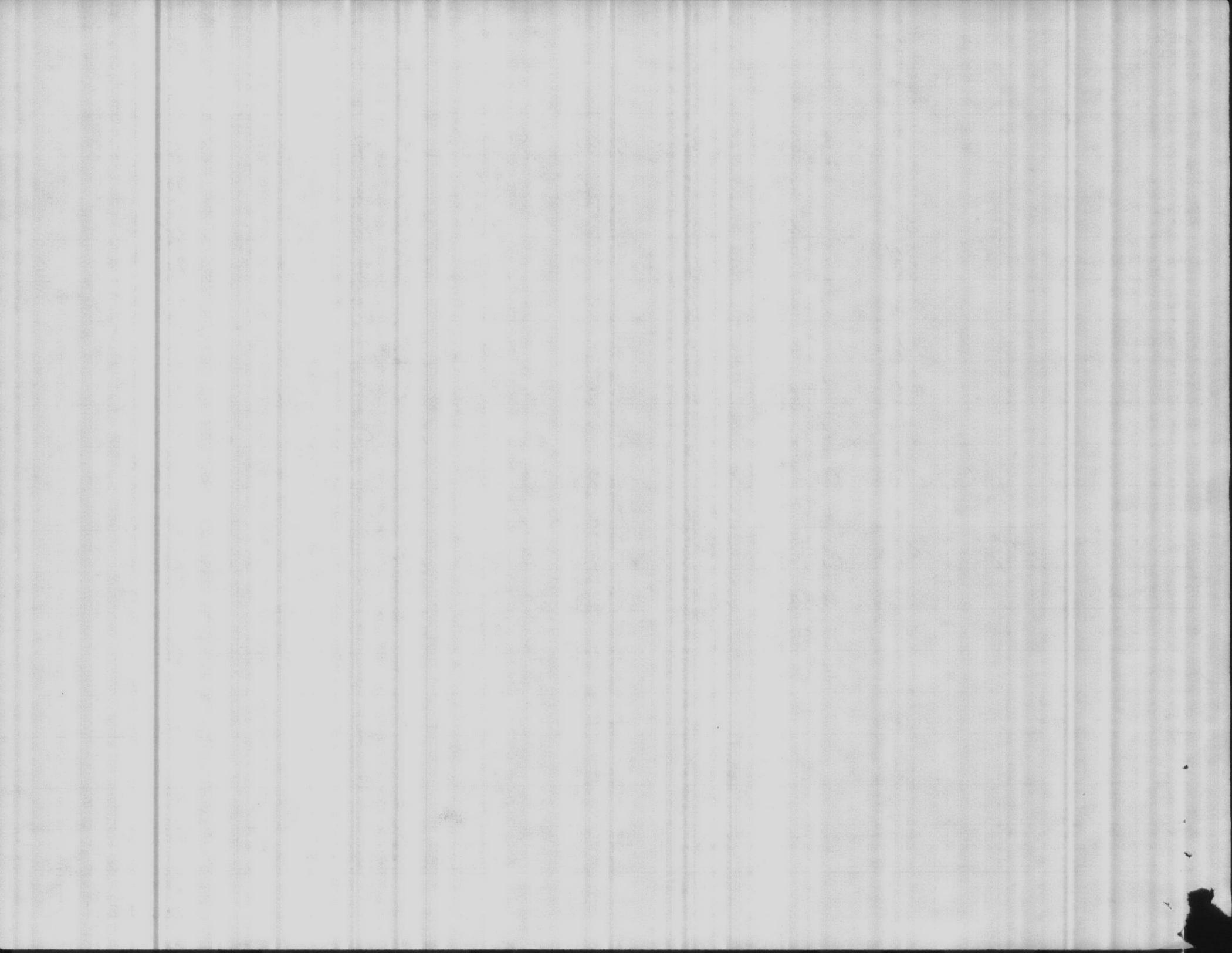
CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED
5 JULY 1983

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.71	7.26	8.58	7.38	8.28	8.09	8.92	8.56	
PENOLTHALEIN ALKALINITY	2	0	2	0	6	0	4	10	
METHYL ORANGE ALKALINITY	56	180	60	158	172	156	52	146	
CARBONATES AS CaCO ₃	4	0	4	0	12	0	8	20	
BICARBONATES AS CaCO ₃	52	180	56	158	160	156	44	126	
OXIDES AS Cl	16	34	10	20	16	26	12	46	
HARDNESS AS CaCO ₃	60	48	76	82	56	48	70	82	
IRON AS Fe	0.40	0.83	0.05	0.19	0.04	0.05	0.04	0.23	
FLUORIDE	AM/PM 1.05/1.02	0.33	1.26/1.23	0.24	0.14	0.19	0.98/0.92	0.66	
CHLORINE RESIDUAL	1.0	1.1	1.1	1.2	1.2	1.0	1.0	1.2	
TURBIDITY	AM/PM 3.4	0.42	0.49/0.42	0.24	0.20	0.26	1.05/0.24	0.46	
TOTAL PHOSPHATE		2.08			0.35				
ORTHO PHOSPHATE		1.24			0.07				
META PHOSPHATE		0.84			0.28				
STABILITY	+0.29	—	+0.24	—	-0.01	-0.24	+0.27	+0.17	
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 BURNS & Monahan DATE OF ANALYSIS 5/6 July 83



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBCL 11330/3 (REV. 3-82)

File
 DATE COLLECTED
 12 July 83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.80	7.36	8.50	7.62	8.38	8.41	8.93	8.95
PENOLTHALEIN ALKALINITY	4	0	2	0	2	4	4	12
METHYL ORANGE ALKALINITY	60	182	68	158	170	156	62	156
CARBONATES AS CaCO ₃	8	0	4	0	4	8	8	24
BICARBONATES AS CaCO ₃	52	182	64	158	166	148	54	132
CHLORIDES AS Cl	14	40	10	16	16	22	8	116
HARDNESS AS CaCO ₃	66	60	92	60	86	66	74	76
IRON AS Fe	0.04	1.07	0.09	0.17	0.04	0.05	0.04	0.08
FLUORIDE	AM / PM 1.09 / 0.93	0.57	0.86 / 0.93	0.27	0.27	0.13	1.06 / 1.06	0.79
CHLORINE RESIDUAL	1.0	1.3	1.0	1.4	1.0	1.0	0.9	1.2
TURBIDITY	AM / PM 0.20	1.4	0.74 / 0.50	0.24	0.22	0.24	0.20 / 0.24	0.40
TOTAL PHOSPHATE		4.60			1.21			
ORTHO PHOSPHATE		0.77			0.35			
META PHOSPHATE		3.83			0.86			
STABILITY	+ 0.24		+ 0.13		+ 0.16	+ 0.06	+ 0.34	+ 0.22
REMARKS								

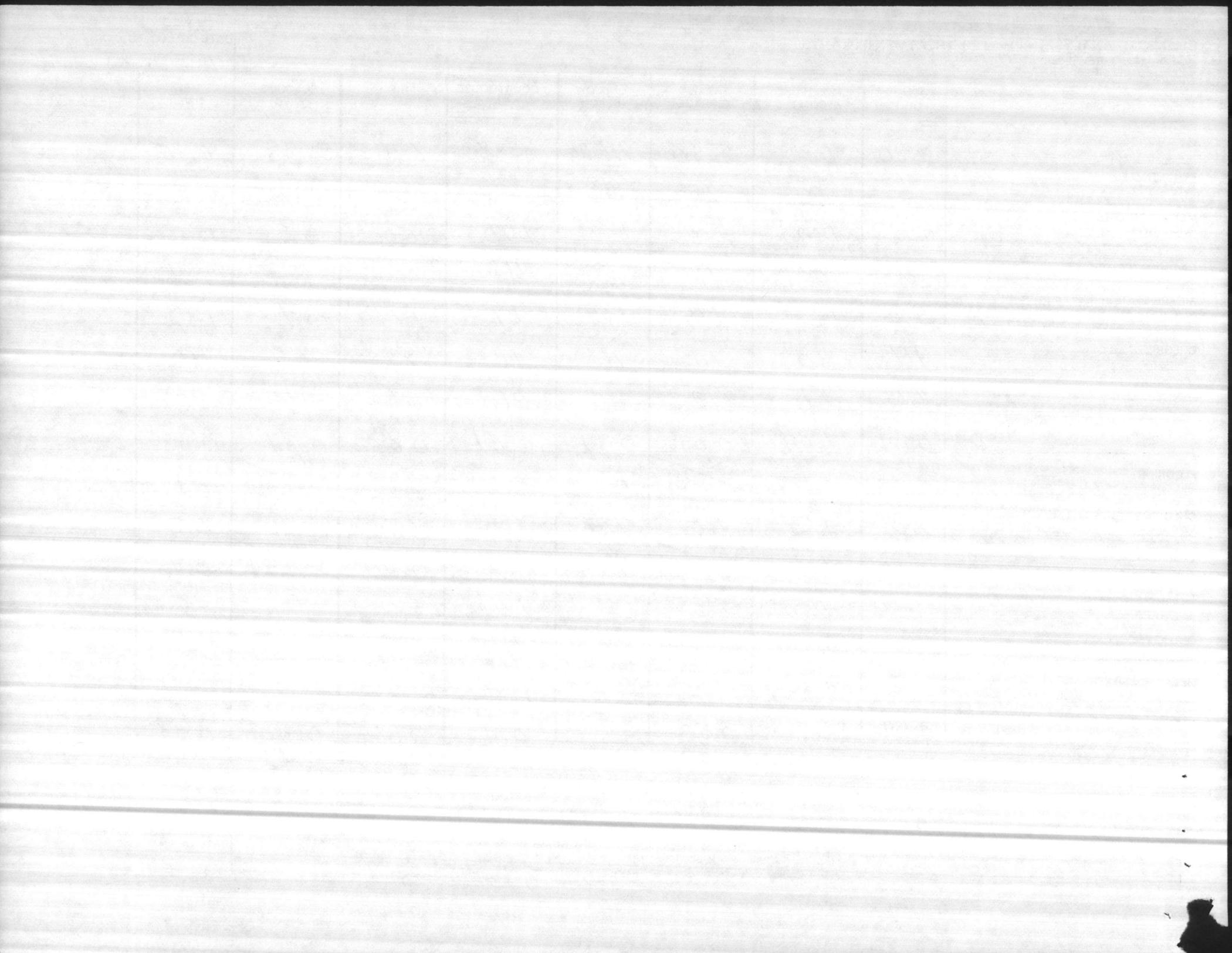
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

Haregutt Monahan

DATE OF ANALYSIS

12 July 83



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS
 MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED
 19 July 1983

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.9	7.3	8.4	7.5	8.4	8.3	8.8	8.4	
PENOLTHALEIN ALKALINITY	4	0	2	0	6	2	6	4	
METHYL ORANGE ALKALINITY	50	180	70	140	150	136	64	140	
CARBONATES AS CaCO ₃	8	0	4	0	12	4	12	8	
BICARBONATES AS CaCO ₃	42	180	66	140	138	132	52	132	
CHLORIDES AS Cl	10	60	10	19	14	20	10	46	
HARDNESS AS CaCO ₃	60	92	90	92	60	50	62	56	
IRON AS Fe	0.04	0.69	0.07	0.20	0.06	0.06	0.07	0.08	
FLUORIDE	0.27 0.19	0.27	0.61 0.41	0.18	0.19	0.13	0.96 0.73	0.53	
CHLORINE RESIDUAL	1.0	1.0	1.0	1.0	1.4	0.8	0.9	1.3	
TURBIDITY	0.50 0.26	0.56	0.50 0.42	0.14	0.16	0.19	0.64 1.00	0.26	
TOTAL PHOSPHATE		2.80			1.26				
ORTHO PHOSPHATE		1.30			0.22				
META PHOSPHATE		1.50			1.04				
STABILITY	+0.3	+	+0.2	—	0.0	-0.1	+0.3	0.0	
REMARKS									

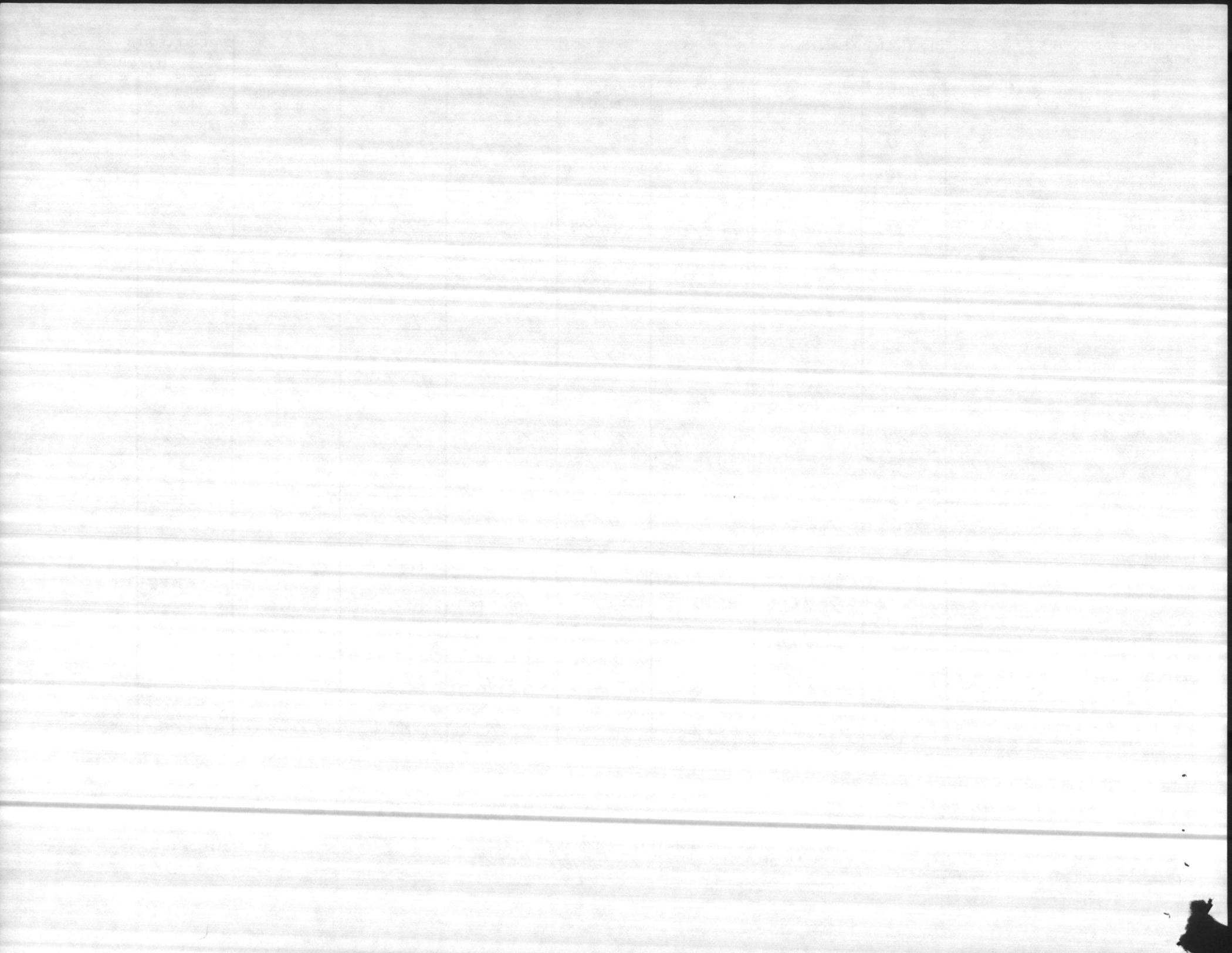
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

Richard E. Burns

DATE OF ANALYSIS

19 July 1983



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

FILE -

DATE COLLECTED

7-26-83

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.3	8.7	7.3	8.3	8.2	8.9	8.8
PENOLTHALEIN ALKALINITY	8	0	6	0	8	4	8	16
METHYL ORANGE ALKALINITY	64	186	64	160	170	164	66	196
CARBONATES AS CaCO ₃	16	0	12	0	16	8	16	32
BICARBONATES AS CaCO ₃	48	186	52	160	154	156	50	164
CHLORIDES AS Cl	8	46	8	12	16	24	12	134
HARDNESS AS CaCO ₃	66	60	82	80	60	48	70	50
IRON AS Fe	0.04	0.67	0.08	0.04	0.04	0.05	0.04	0.07
FLUORIDE	$\frac{AM}{PM} \frac{0.13}{0.18}$	0.32	$\frac{0.99}{1.09}$	0.27	0.23	0.23	$\frac{0.83}{0.99}$	1.06
CHLORINE RESIDUAL	0.8	1.4	1.0	1.0	1.3	1.0	1.0	1.2
TURBIDITY	$\frac{AM}{PM} \frac{0.16}{0.16}$	0.30	$\frac{0.40}{0.52}$	0.14	0.16	0.17	$\frac{0.16}{0.14}$	0.24
TOTAL PHOSPHATE *		2.52			0.28			
ORTHO PHOSPHATE *		1.38			0.10			
META PHOSPHATE *		1.14			0.18			
STABILITY	+0.4	-	+0.3	-	0.0	-0.1	+0.4	+0.1

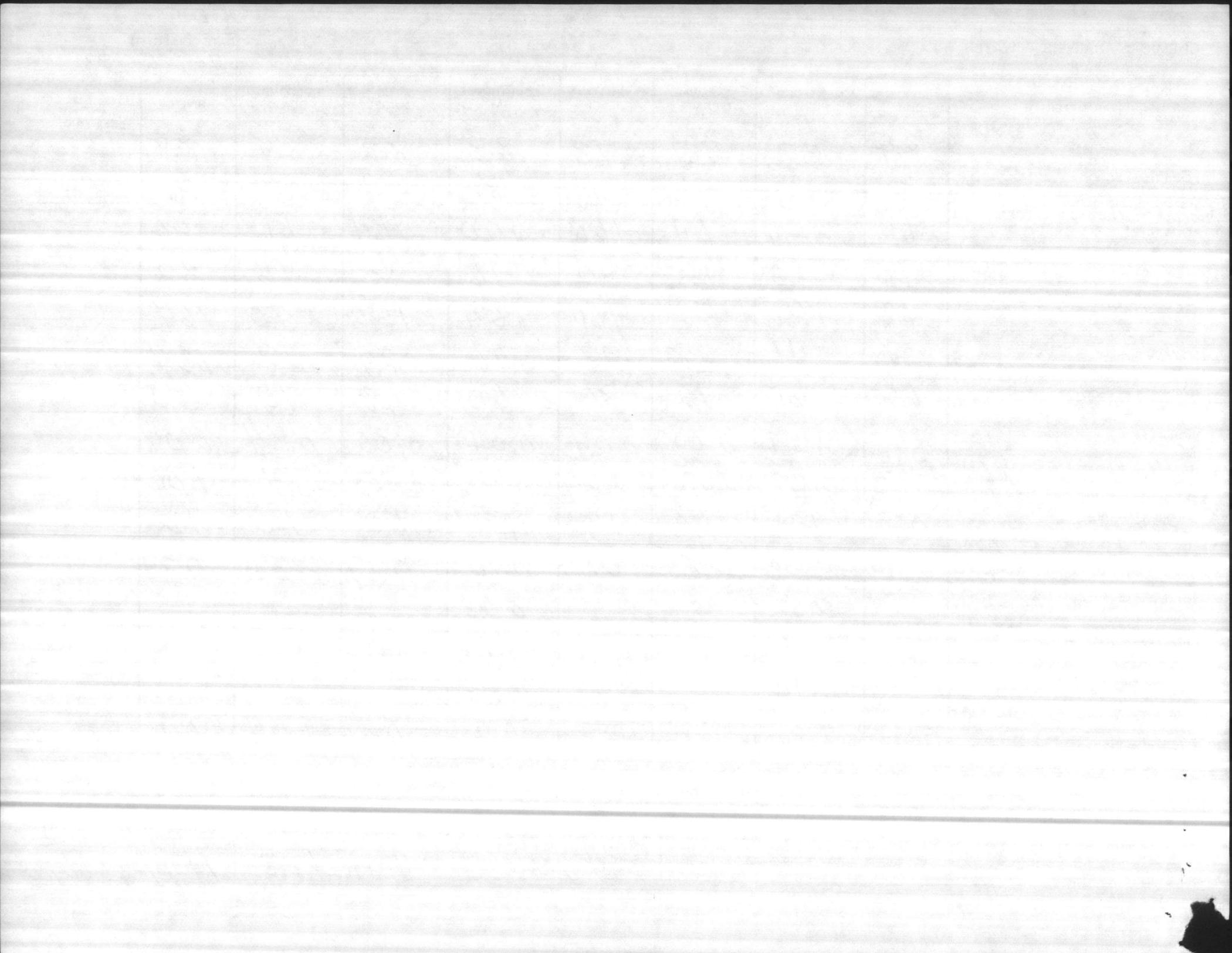
REMARKS

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
Lachapelle

Monahan

DATE OF ANALYSIS
7/26/83 * 7/27/83



26 July 1983

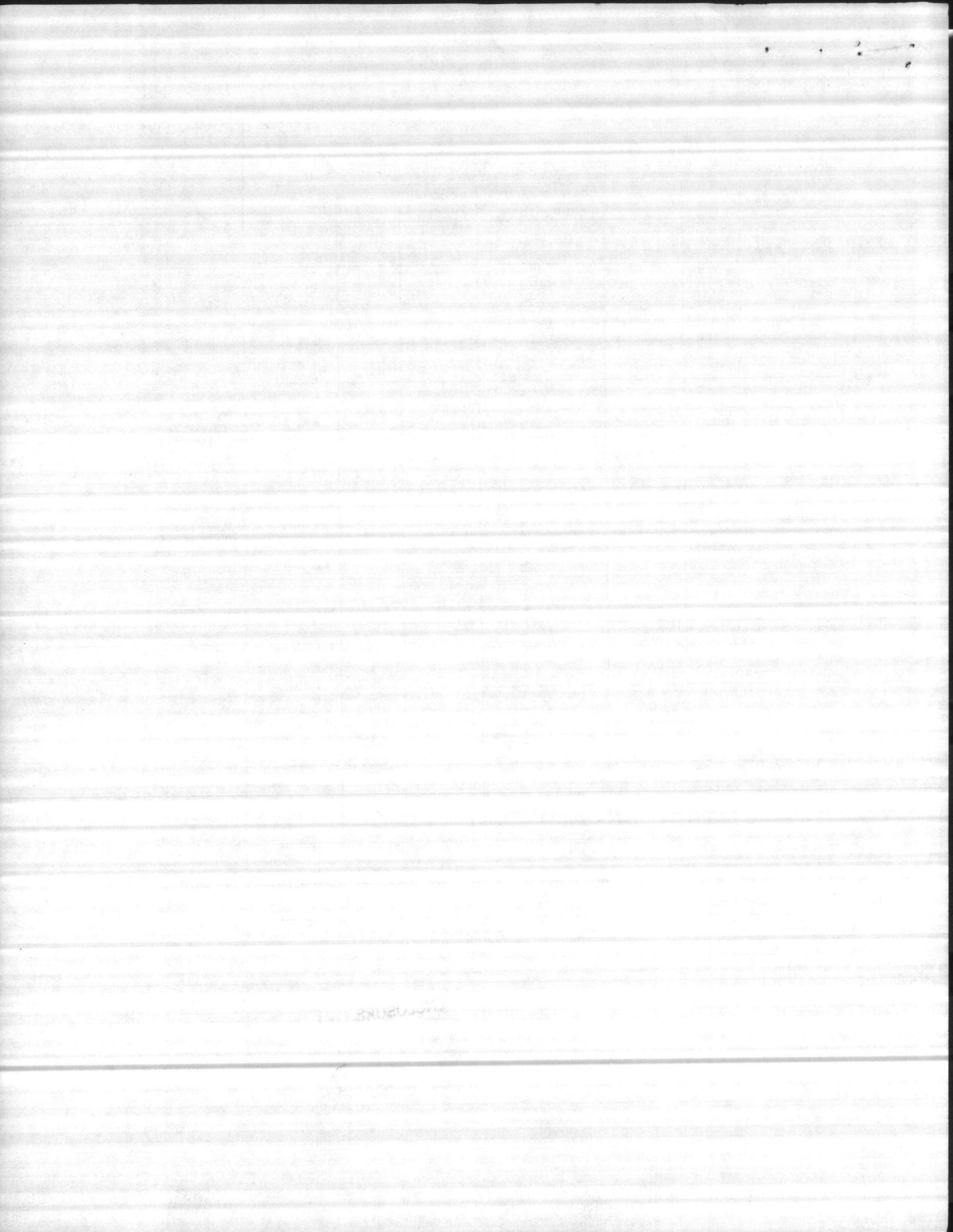
BACTERIOLOGICAL ANALYSIS OF 'WATER' NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		∅	1.5		0825
FC-19		∅	0.6		157
SH-8		∅	0.8		0942
M.P. POOL		∅	0.5	7.4	1045
#2 POOL		∅	0.6	7.5	1115
#5 POOL		∅			
P. P. POOL		∅	0.5	7.2	1125
P. P. BABY POOL		∅	0.5	7.2	1127
MCAS E-POOL		∅	0.6	7.1	0820
MCAS O-POOL		∅	0.5	7.1	0831
MCAS BABY POOL		∅			
ICP 1310		∅			
ICP 1320					

REMARKS

MCBCL 11889/4 (A)

ENCLOSURE (2)



5 July 1983

BACTERIOLOGICAL ANALYSIS OF WATER

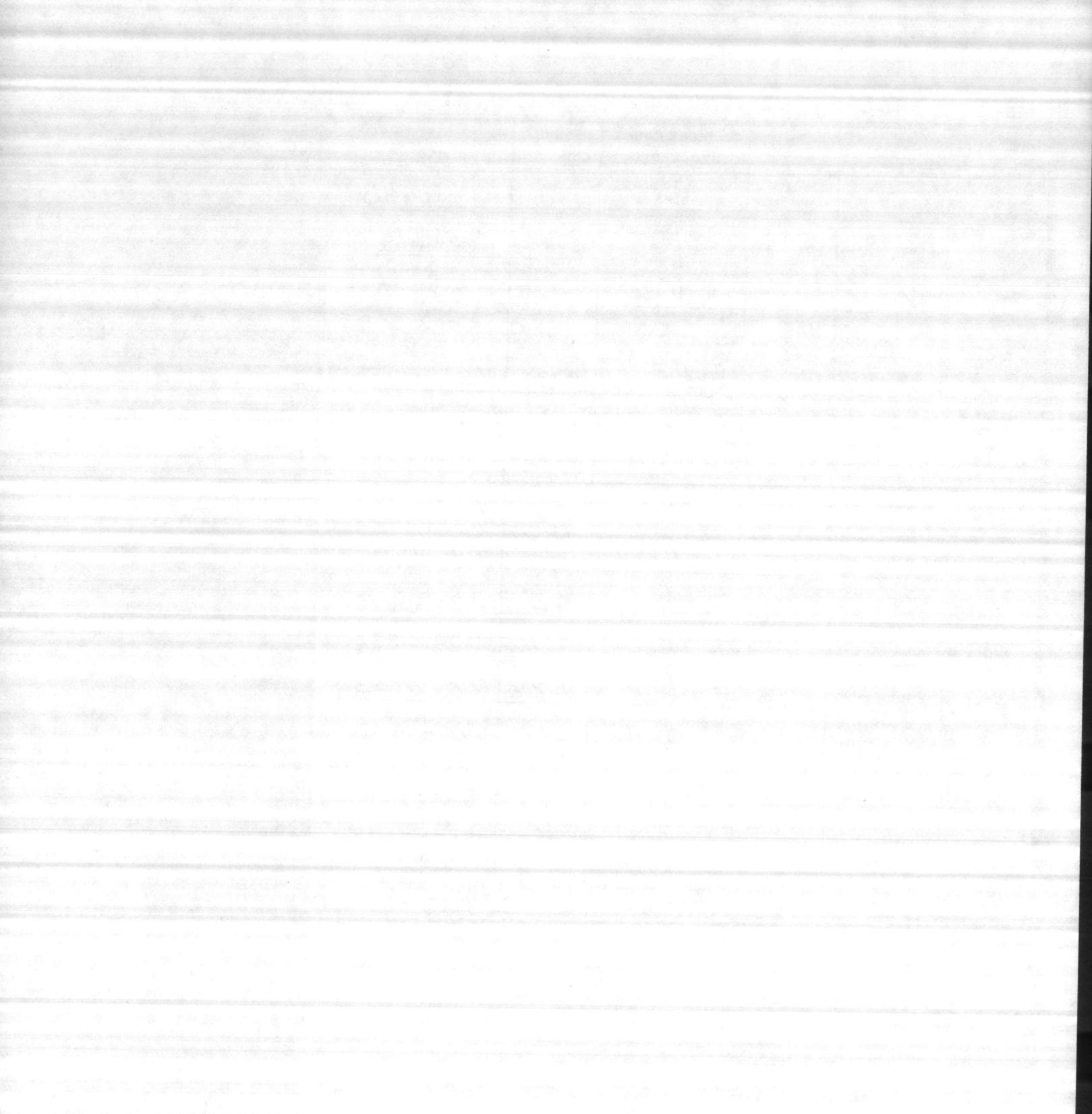
NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		φ	1.0		0850
FC-19		φ	0.9		1115
SH-8		φ	0.6		1130
M.P. POOL		φ	0.2	7.6	1115
#2 POOL		φ	0.7	7.2	0914
#5 POOL		Closed			
P. P. POOL		φ	0.6	7.4	1030
P. P. BABY POOL		φ	0.6	7.4	1032
MCAS E-POOL		5	1.2	7.0	0820
MCAS O-POOL		φ	0.9	7.0	0830
MCAS BABY POOL		φ	0.8	7.0	0833
ICE SAMPLE		φ			
BLDG 1300					

REMARKS

MP POOL NUMEROUS NON-CUL-FURT

ICE SAMPLE " " " "



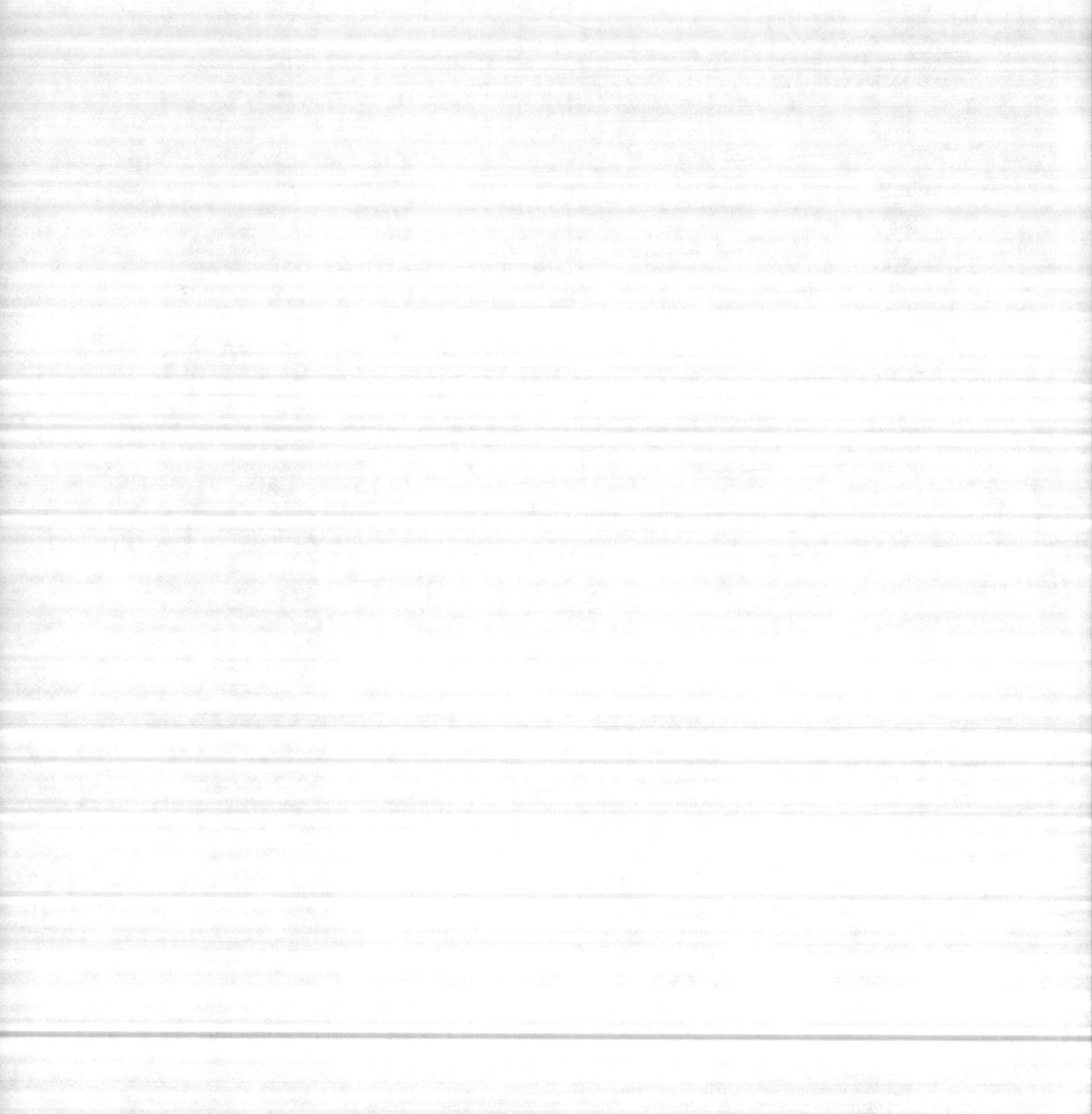
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12 July 1983

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT		RESIDUAL CHLORINE	pH	TIME
		M-ENDO	MEDIUM			
BB-97			φ			
FC-19			φ	0.6		1000
SH-8			φ	0.4		0950
M.P. POOL			φ	0.3	7.3	0925
#2 POOL			φ	0.6	7.4	1036
#5 POOL			Closed			
P. P. POOL			φ	0.5	7.3	1055
P. P. BABY POOL			φ	0.5	7.3	1059
MCAS E-POOL			φ	0.6	7.0	0920
MCAS O-POOL			φ	0.5	7.2	0930
MCAS BABY POOL			Closed			
ICE SAMPLE						
BLDG 1300			φ			0900
WATER SAMPLE						
BLDG 1300			φ			1313
REMARKS						

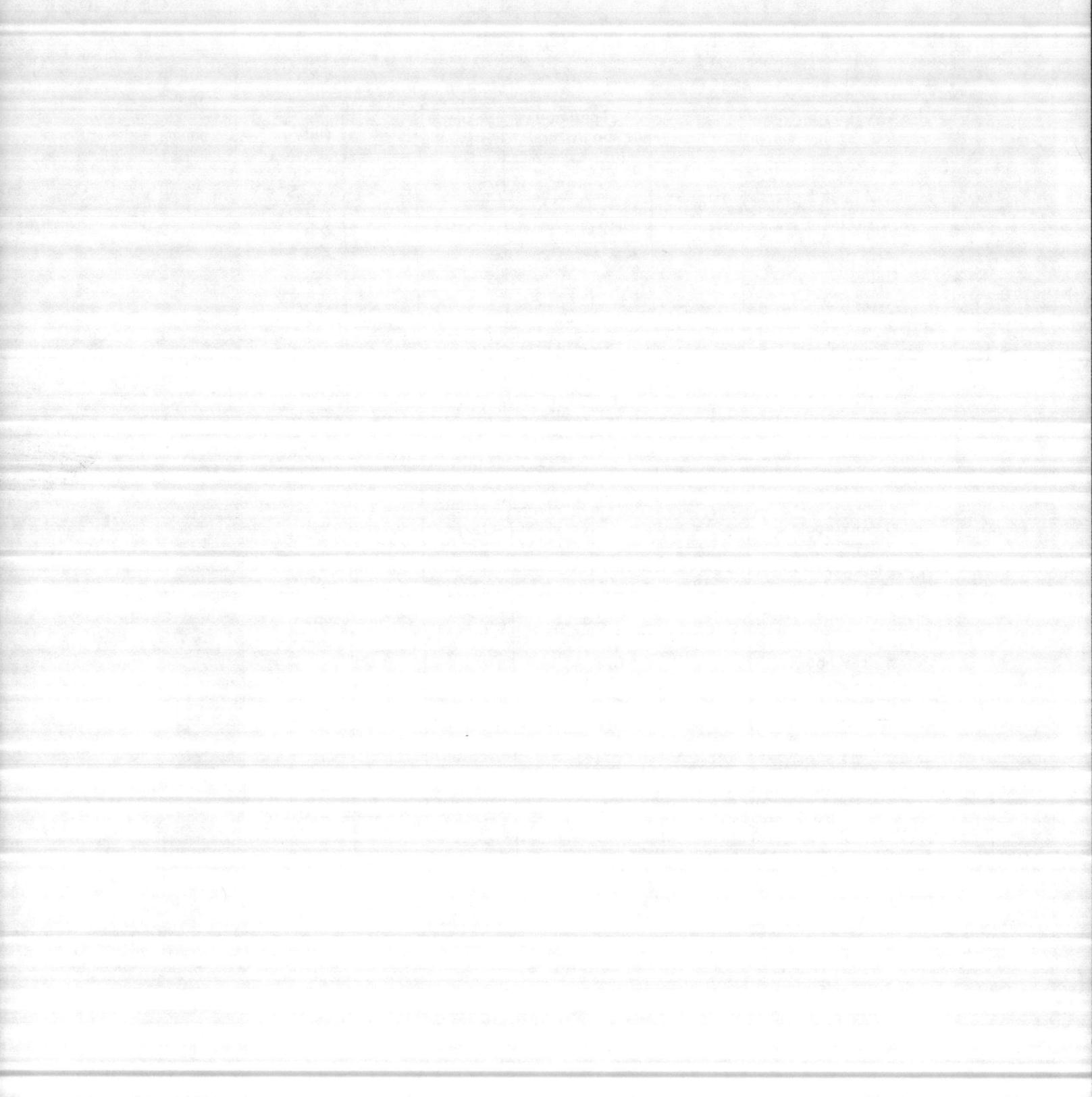


19 Jun 1983

BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		∅	0.8		0835
FC-19		I	0.5		1000
SH-8		I	0.6		0947
M.P. POOL		∅	0.8	7.6	1100
#2 POOL		∅	0.8	7.4	1015
#5 POOL		Closed			
P. P. POOL		∅	0.7	7.2	1045
P. P. BABY POOL		I	0.7	7.2	1050
MCAS E-POOL		I	0.7	7.6	0900
MCAS O-POOL		I	0.8	7.9	0915
MCAS BABY POOL		Closed			
ICE		∅			0840
REMARKS					



BACTERIOLOGICAL ANALYSIS OF WATER
 MCBCL 11330/4 (REV. 3-82)

DATE COLLECTED
 7/26/83

REPORTABLE POINTS FOR SDWA

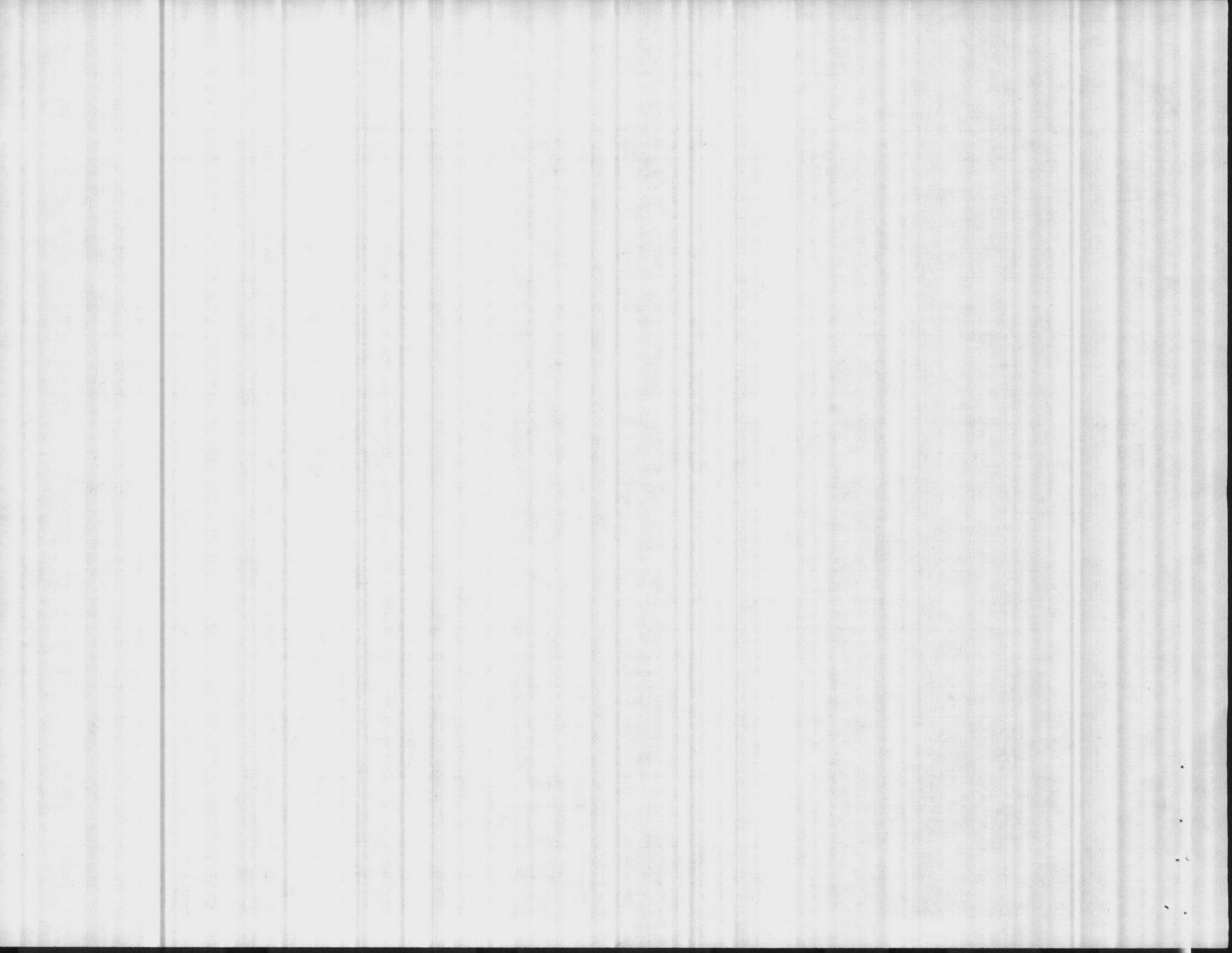
WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	TIME
RR - 3	1	φ	0.8	0925	MCAS - 3502	24	φ	0.2	1009
RR - 15	2		0.5	0920	MCAS - 4042 4157	25		0.6	0950
RR - 6	3		1.0	0940	MCAS - 2002	26		0.5	1020
	4				MCAS - 11.0.0 2114	27		0.6	1041
A-1	5		1.0	0850	MCAS -	28			
BB - 7	6		1.0	0830	MCAS -	29			
BB - 49	7		1.0	0810	New Hospital and Phos. H. + N	30		0.8	1216
BB - 15	8		1.1	0815	PP - 2615	31		0.7	1125
	9				PP - 2602	32		0.7	1132
BA - 103	10		0.8	1030	BM - 5400	33		0.6	1142
BA - 101	11		0.8	1035	BM - 825	34		0.6	1117
	12				LCH - 4022	35		0.8	1230
TT - 38	13		1.0	0900	LCH - 4000	36		0.8	1245
TT - 43	14		1.0	0915	New Hospital Food Service	37		0.8	1212
TT - 3123	15		0.8	0930	H-1 OLD HOSPITAL Phos. H. + N	38		0.5	1100
	16				H-2 OLD HOSPITAL Phos. H. + N	39		0.5	1107
CK - 1310	17		0.2	1000	FC - 303	40		0.6	0926
M - 139	18		1.2	1015	FC - 420	41		0.6	0920
M - 19	19		1.1	1030	FC - 320	42	√	0.6	0915
CG - 1	20				HP - 236	43	φ	0.6	1115
G - 650	21		0.6	0925	HP - 540	44	(Chosen)	—	—
TC - 800 830	22	√	0.7	0930	HP - 1300	45	φ	0.7	0855
TC - 4040	23	φ	0.3	0940	HP - 1211	46	φ	0.7	0902

REMARKS

SIGNATURE

H. J. Burns

7/27/83



REPORTABLE POINTS FOR SDWA

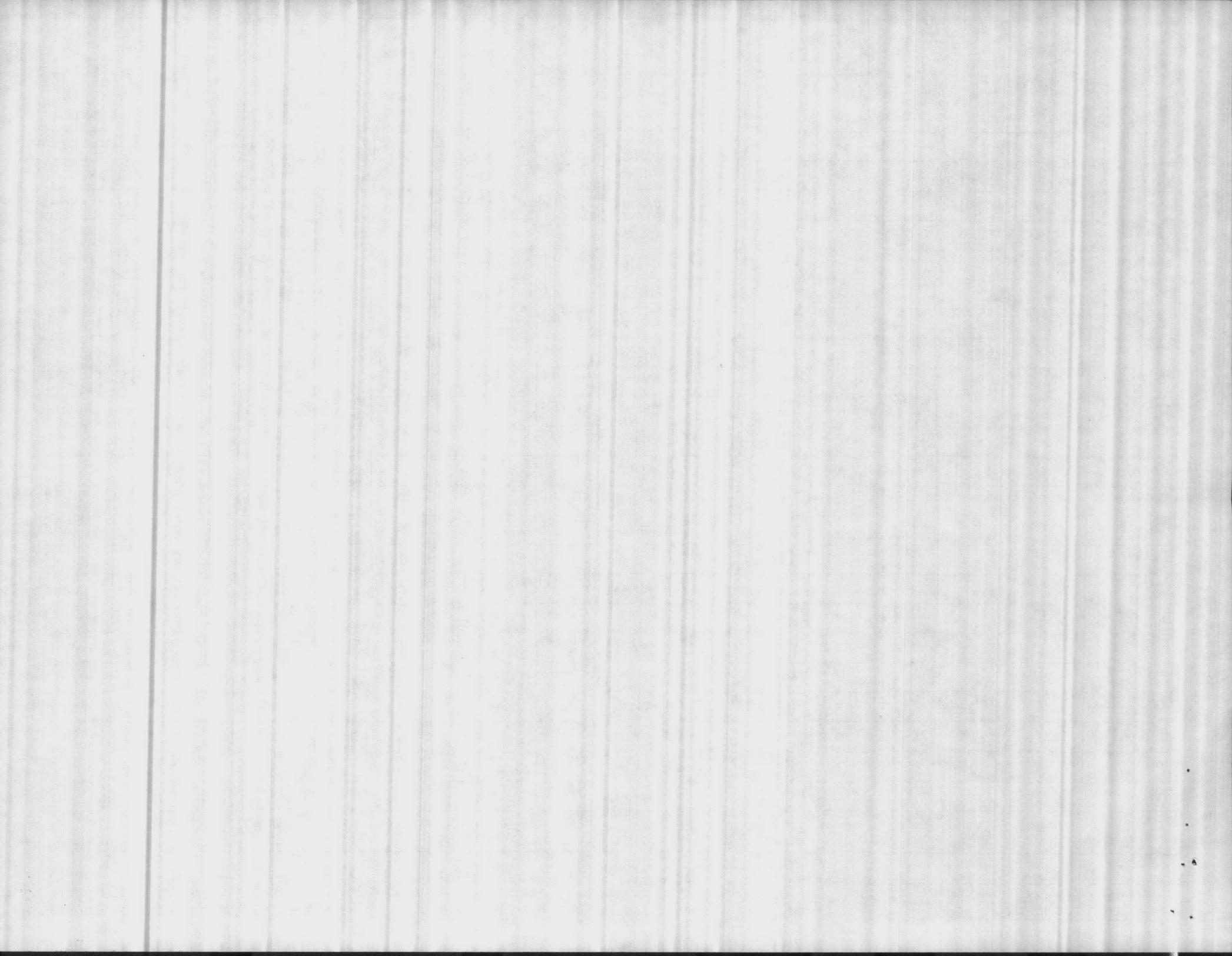
WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	TIME
RR - 3	1	∅	1.0	0940	MCAS - 3502	24	∅	0.3	1009
RR - 15	2	∅	1.0	0930	MCAS - 4012 4150	25	∅	0.7	1000
RR - 10	3	∅	1.0	0945	MCAS - 2002	26	∅	0.8	1021
	4				MCAS - M.E.Q. 1104	27	∅	0.9	0840
A-1	5	Closed	—	—	MCAS -	28			
BB - 7	6	∅	1.2	0840	MCAS -	29			
BB - 49	7		0.8	0900	NEW HOSPITAL 2nd Floor Bathroom	30		0.8	1055
BB - 45	8		1.2	0850	PP - 2615	31		0.6	1040
	9				PP - 2604	32		0.6	1025
BA - 103	10		1.0	1120	BM - 5400	33		0.7	1015
BA - 102	11		0.8	1130	BM - 5102	34		0.7	1008
	12				LCH - 4022	35		0.8	1145
TT - 38	13		1.0	0930	LCH - 704	36		0.8	1150
TT - 43	14		0.9	0945	NEW HOSPITAL FOOD SERVICE	37		0.8	1050
TT - 2391	15		0.8	1000	OLD HOSPITAL H-1 1st Floor Bath Room	38		0.6	1000
	16				OLD HOSPITAL H-2 2nd Floor Bath Room	39		0.6	0956
CK - 1602	17		0.8	1025	FC - 303	40		0.7	0947
M - 139	18		1.0	1100	FC - 420	41		0.7	0945
M - 231	19		0.9	1045	FC - 360	42	∇	0.7	0940
	20				HP - 236	43	∅	0.7	0914
CG-1	21		0.3	0935	HP - 540	44	Closed		
TC - 830	22	∇	0.7	0920	HP - 1300	45	∅	0.8	0920
TC - 4040	23	∅	0.3	0948	HP - 325	46	∅	0.8	0930

REMARKS

SIGNATURE

H. J. Burns

7/6/83



File

DATE COLLECTED
 7/12/83

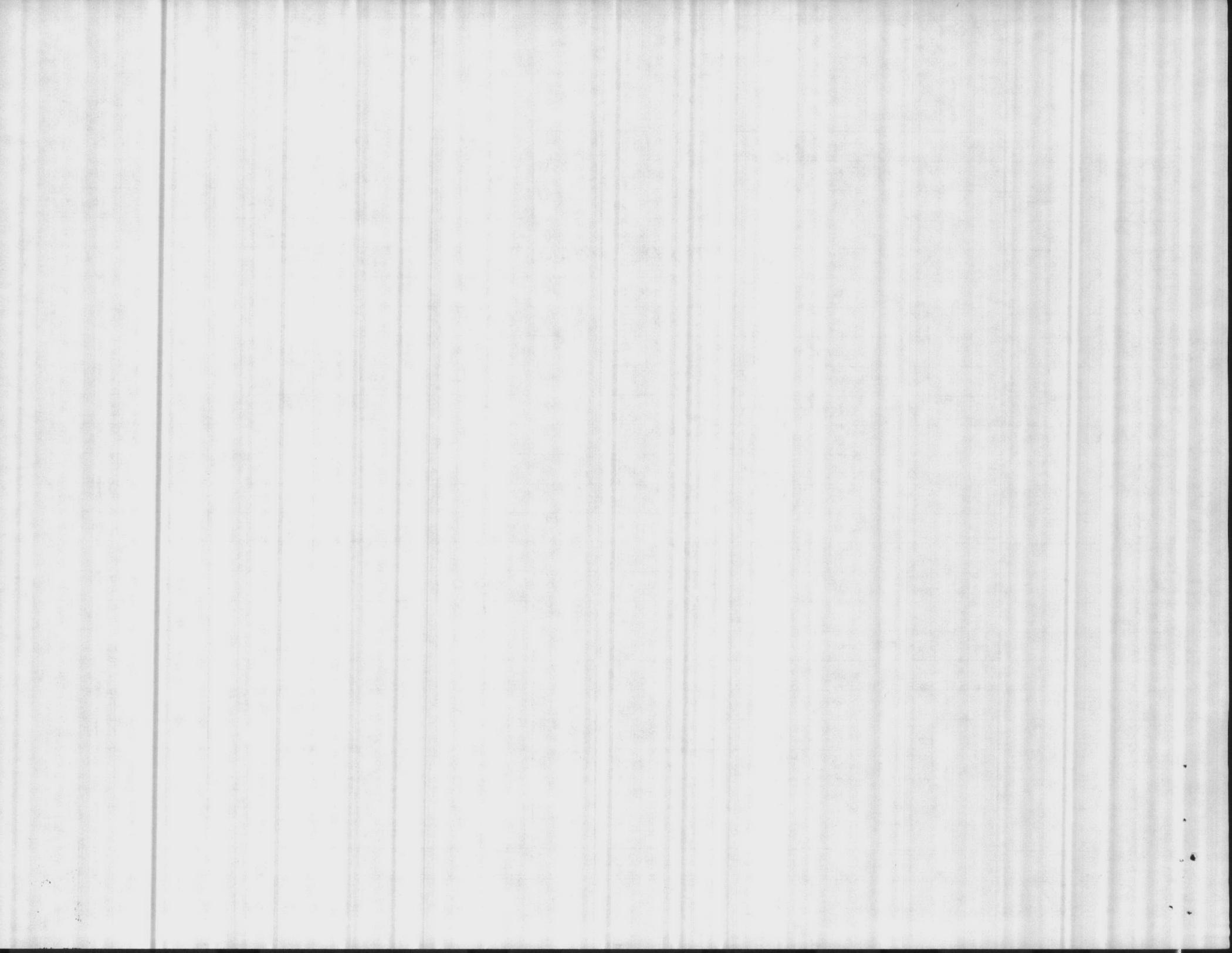
REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	TIME
RR - 3	1	φ	1.2	0955	MCAS - 3502	24	φ	1.2	0820
RR - 15	2	φ	0.8	0945	MCAS - 4012	25	φ	1.1	0830
RR - 12	3	φ	1.0	1000	MCAS - 2002	26	φ	1.0	0950
	4	φ			MCAS - 4158	27	φ	1.1	0839
A-1	5	φ	0.8	0915	MCAS -	28	φ		
BB - 7	6	φ	1.0	0815	MCAS -	29	φ		
BB - 49	7	φ	0.4	0845	NEW HOSPITAL 2nd Floor HEAD	30	φ	0.8	1134
BB - 245	8	φ	0.8	0825	PP - 2615	31	φ	0.5	1100
	9	φ			PP - 2611	32	φ	0.5	1105
BA - 103	10	φ	1.0	1110	BM - 5400	33	φ	0.6	1110
BA - 101	11	φ	0.7	1120	BM - 5082	34	φ	0.6	1118
	12	φ			LCH - 4022	35	φ	0.7	1200
TT - 38	13	φ	1.0	0850	LCH - 4025	36	φ	0.7	1206
TT - 43	14	φ	1.0	1005	NEW HOSPITAL Food Service	37	φ	0.8	1130
TT - 313	15	φ	1.0	1015	H - OLD HOSPITAL 1st Floor HEAD	38	φ	0.7	1044
	16	φ			H - OLD HOSPITAL 2nd Floor HEAD	39	φ	0.7	1048
CK - 1206	17	φ	0.5	0957	FC - 303	40	φ	0.8	0941
M - 139	18	φ	1.0	0930	FC - 420	41	φ	0.8	0734
M - 128	19	φ	1.0	0940	FC - 400	42	∇	0.8	0926
CG - 1	20	φ			HP - 236	43	φ	0.6	1037
G - 650	21	φ	0.3	1010	HP - 540	44	Checked	—	—
TC - 832	22	∇	0.4	1020	HP - 1300	45	φ	0.8	0907
TC - 830	23	φ	0.4	1031	HP - 1203	46	φ	0.8	0915

REMARKS

SIGNATURE

H. J. Burns
 7/13/83



BACTERIOLOGICAL ANALYSIS OF WATER
MCBCL 11330/4 (REV. 3-82)

File
DATE COLLECTED
19 July 83

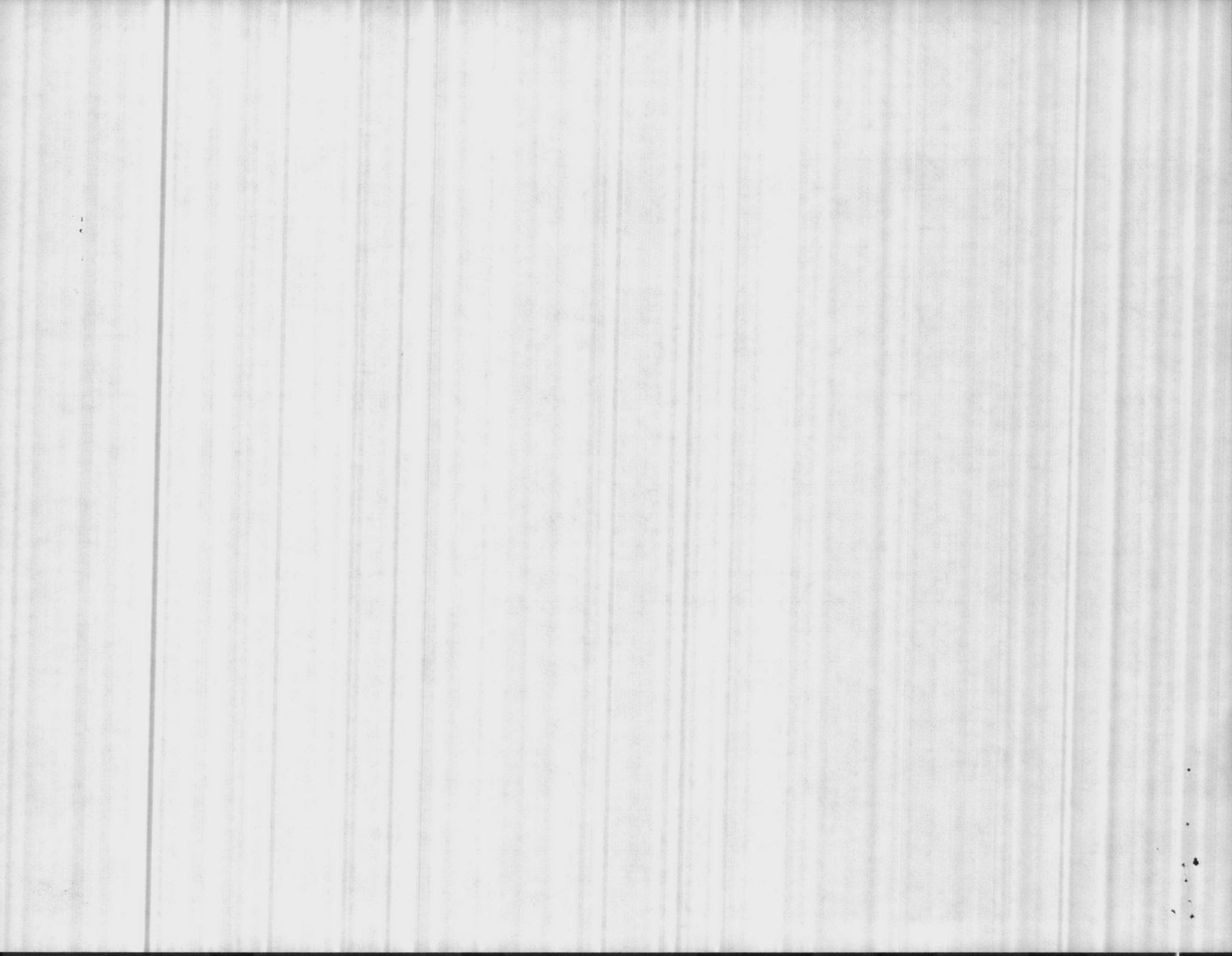
REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	TIME
RR - 3	1	∅	1.0	0925	MCAS - 3502	24	∅	0.3	0942
RR - 15	2	I	1.0	0920	MCAS - 4012 4157	25	I	0.7	0930
RR - 10	3	I	1.0	0935	MCAS - 2002	26	I	0.8	0955
	4				MCAS MEQ 1284	27	I	0.9	1030
A-1	5	∅	1.0	0840	MCAS -	28			
BB - 7	6	I	1.2	0825	MCAS -	29			
BB - 49	7	I	0.8	0840	New Hospital Food Services	30	∅	0.7	1137
BB - 15	8	I	1.2	0830	PP - 2615	31	I	0.7	1045
	9				PP - 2603	32	I	0.7	1052
BA - 103	10	∅	0.8	1105	BM - 5400	33	I	0.7	1100
BA - 104	11	∅	0.8	1115	BM - 5333	34	I	0.7	1110
	12				LCH - 4022	35	I	0.6	1145
TT - 38	13	∅	1.0	0845	LCH 4014A	36	I	0.6	1200
TT - 43	14	I	1.0	0900	New Hospital 2 nd Floor Head	37	I	0.7	1130
TT - 1127	15	I	0.8	0915	Old Hospital 2 nd Floor Head	38	I	0.6	1030
	16				H - Old Hospital 1 st Floor Head	39	I	0.6	1035
CK - 1607	17	∅	0.7	0945	FC - 303	40	I	0.6	0932
M - 139	18	I	1.0	1015	FC - 420	41	I	0.5	0925
M - 103	19	I	0.9	1000	FC Snack Bar	42	I	0.5	0916
CG - 1	20				HP - 236	43	I	0.8	1015
G - 650	21	∅	0.8	0830	HP - 540	44			
TC - 832 830	22	I	0.7	0841	HP - 1300	45	∅	0.7	0840
TC - 4040	23	I	0.3	1040	HP - 1403	46	∅	0.7	0900

REMARKS

SIGNATURE

James R. Bennett 20 July 83



QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/76)

INFECTION CONTROL Naval Hosp

WATER TYPE	LOCATION	SAMPLE COLLECTED BY	DATE COLLECTED	
			TOTAL	FECAL
Ice		Michael W. Buet	5 July	
	ER	0856	Φ	
	4A	out of order		
	4W	0900	Φ	
	3W	0903	Φ	
	3E	0904	Φ	
	CCU	0905	Φ	
	ICU	0906	Φ	
	2E	0907	Φ	
	2W	0908	Φ	
	LED	0910	Φ	
	RER	0912	Φ	
	/			

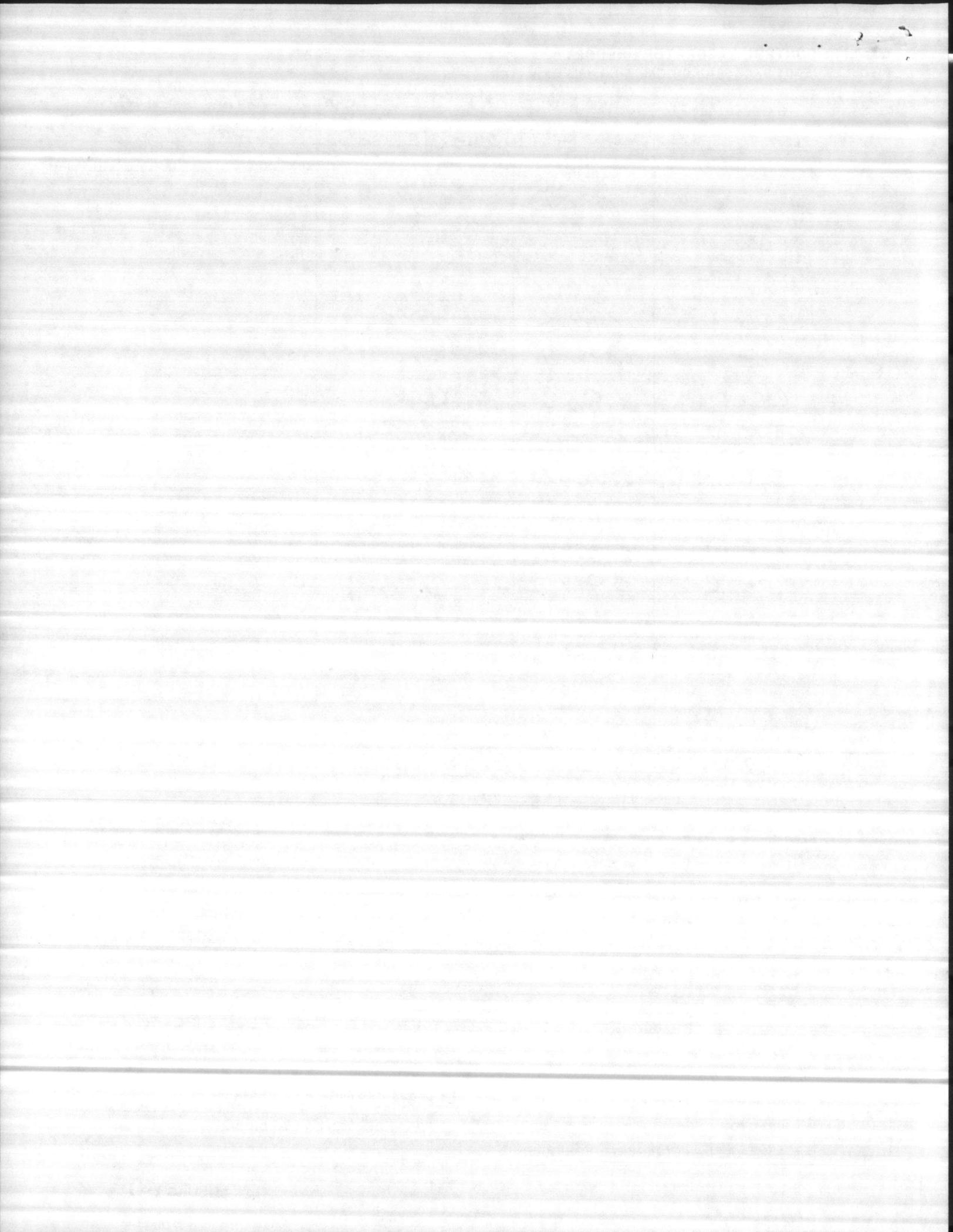
REMARKS Recd LAB 1510 7/5/83
 SAMPLES SET UP 1000 7/6/83

NOTE: R.R. 26 non-coli-form colonies

SIGNATURE *H. J. Bunn* DATE 7 July 83

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 - MCAS PREVENTIVE MEDICINE

ENCLOSURE (3)



QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11390/8 (REV. 4/78)

Infection Control Naval Hosp.

WATER TYPE <i>ICE</i>		SAMPLE COLLECTED BY <i>HM2 M. Burt</i>		DATE COLLECTED <i>13 July 83</i>	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
<i>ER</i>	<i>0834</i>	<i>∅</i>			
<i>4A</i>	<i>Out of ORDER</i>				
<i>4W</i>	<i>0839</i>	<i>∅</i>			
<i>3W</i>	<i>0849</i>	<i>∅</i>			
<i>3E</i>	<i>0853</i>	<i>∅</i>			
<i>CCU</i>	<i>0855</i>	<i>∅</i>			
<i>ICU</i>	<i>0856</i>	<i>∅</i>			
<i>2E</i>	<i>0907</i>	<i>∅</i>			
<i>2W</i>	<i>0909</i>	<i>∅</i>			
<i>L:D</i>	<i>0914</i>	<i>∅</i>			
<i>R:R</i>	<i>0917</i>	<i>∅</i>			

REMARKS

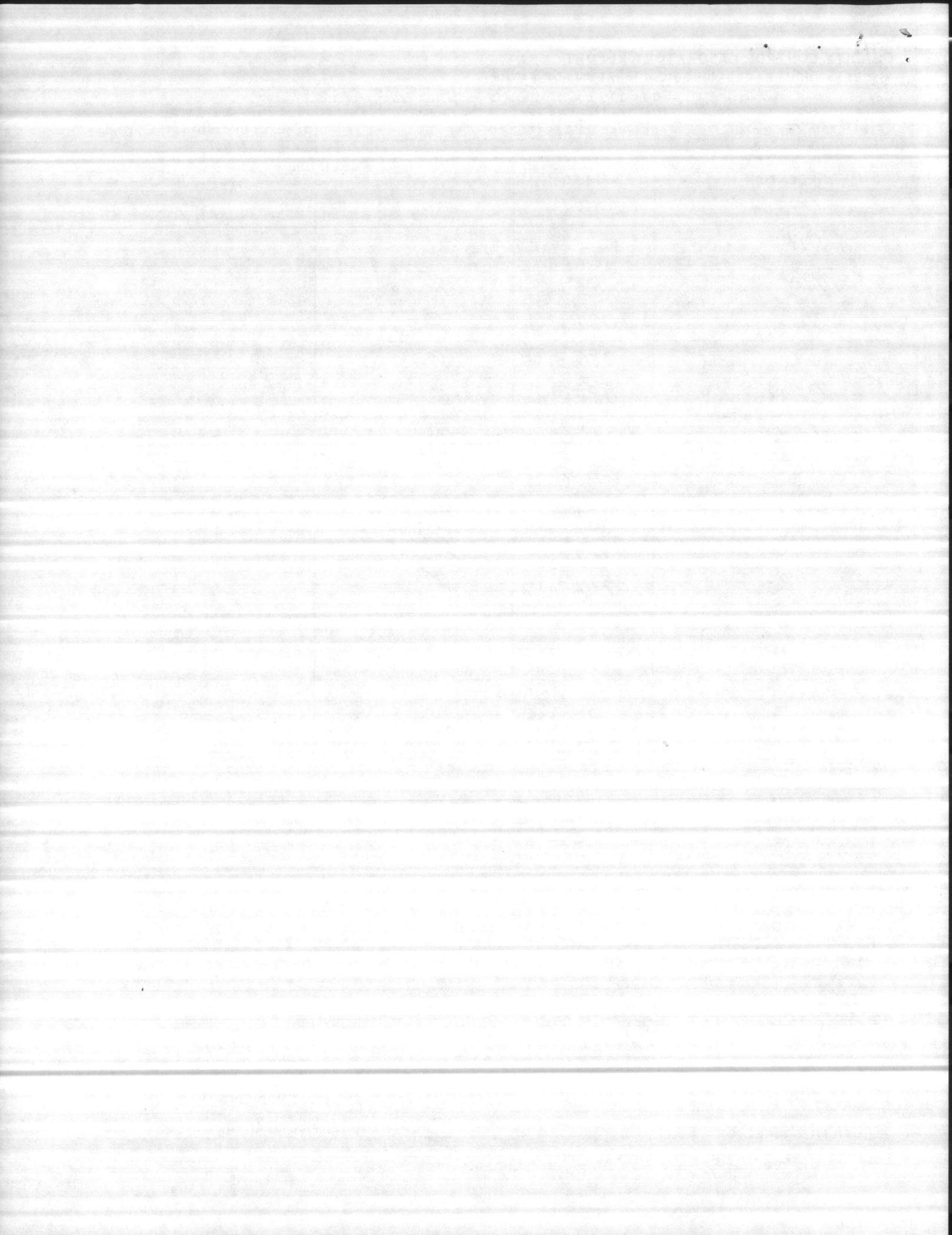
SIGNATURE *[Handwritten Signature]*

DATE *14 July 83*

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QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/78)

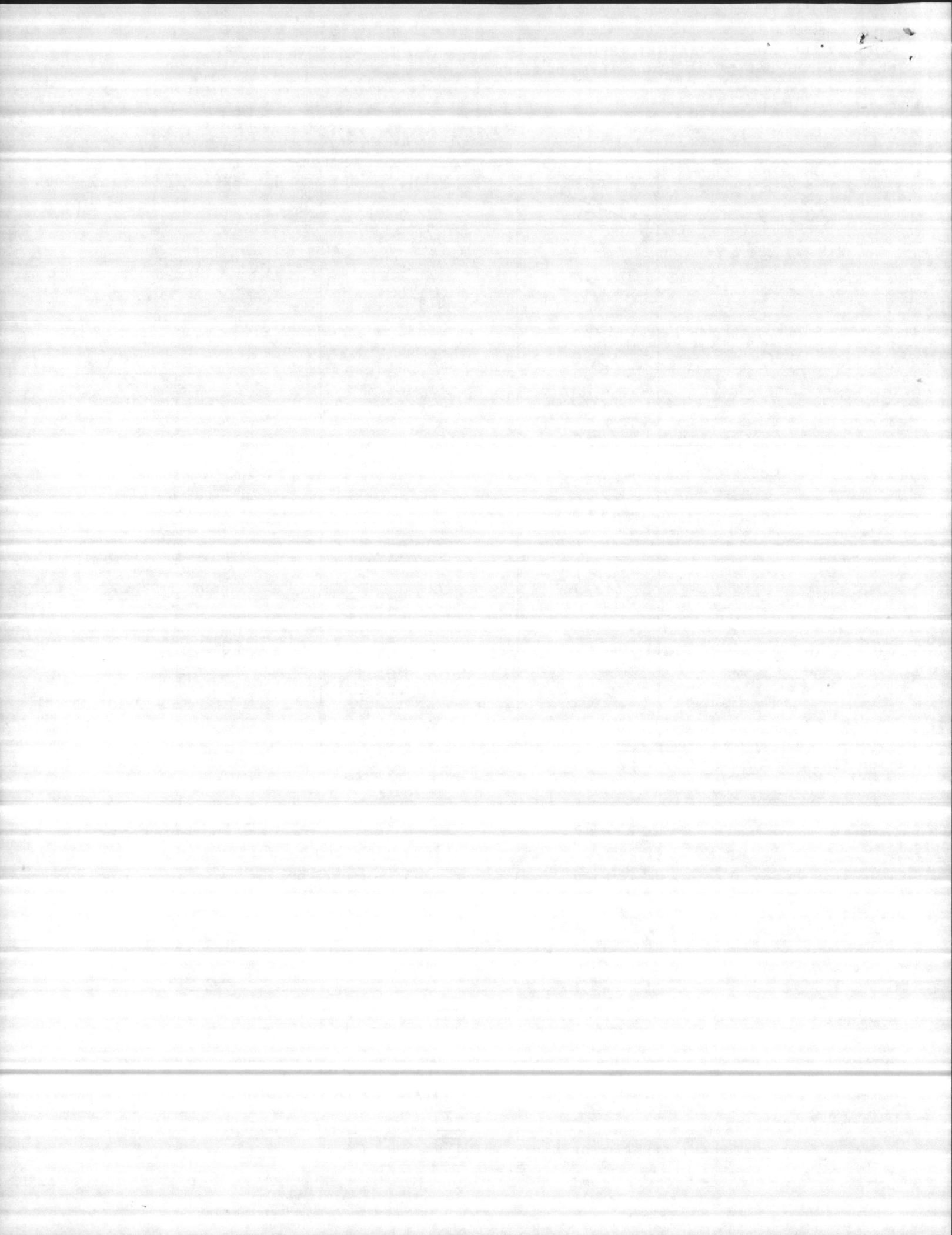
WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
ICE SAMPLES		INF. CONT. G. SNYDER LCWA		26 July 83	
LOCATION	TIME MARKED	COLIFORM			
		TOTAL	FECAL		
4A N-P	1002	0			
4W PWS	1002	0			
3W ORTHO	1003	0			
3E MED	1006	0			
3A CCU	1008	0			
2A ICU	1011	0			
2E SUPR	1013	0			
2W OB	1025	0			
L+D	1026	0			
RR	1032	0			
ER	0957	0			

REMARKS
 Rec 1110 7-26-83 J

NOTE
 Recovery Room 12 now - Coliform

SIGNATURE H. J. Burns DATE 27 July 83

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QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/78)

F.V.R.

WATER TYPE RICKIA TIOJAL	SAMPLE COLLECTED BY HM2 SHAW		DATE COLLECTED 7/7/83	
LOCATION	MARKED	COLIFORM		
		TOTAL	FECAL	
MCAS MARINA				
BEACH	1 1000	40	40	
MCAS MARINA				
BEACH	2 1000	20	44	
ONSHOW BEACH				
SUEF	3 0900	∅	∅	
ONSHOW BEACH				
SNCO	4 0900	∅	∅	
ONSHOW BEACH				
OFFICERS	5 0900	∅	∅	
ONSHOW BEACH				
ENTHISTEN	6 0900	4	∅	

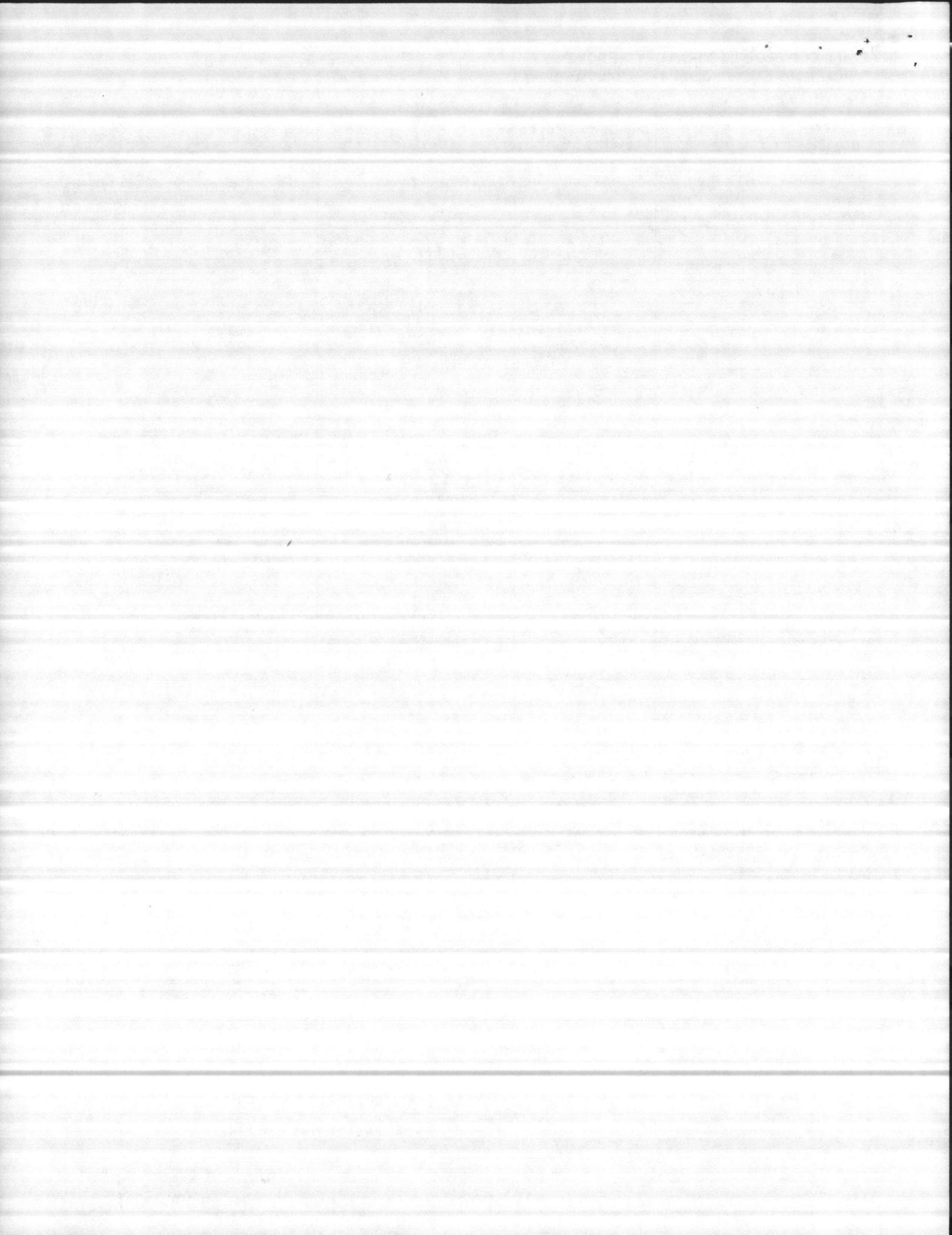
REMARKS
 Recd. Lab 1355 7/7/83
 SET UP 1400 7/7/83
 SAMPLES RECD 1315 7/8/83

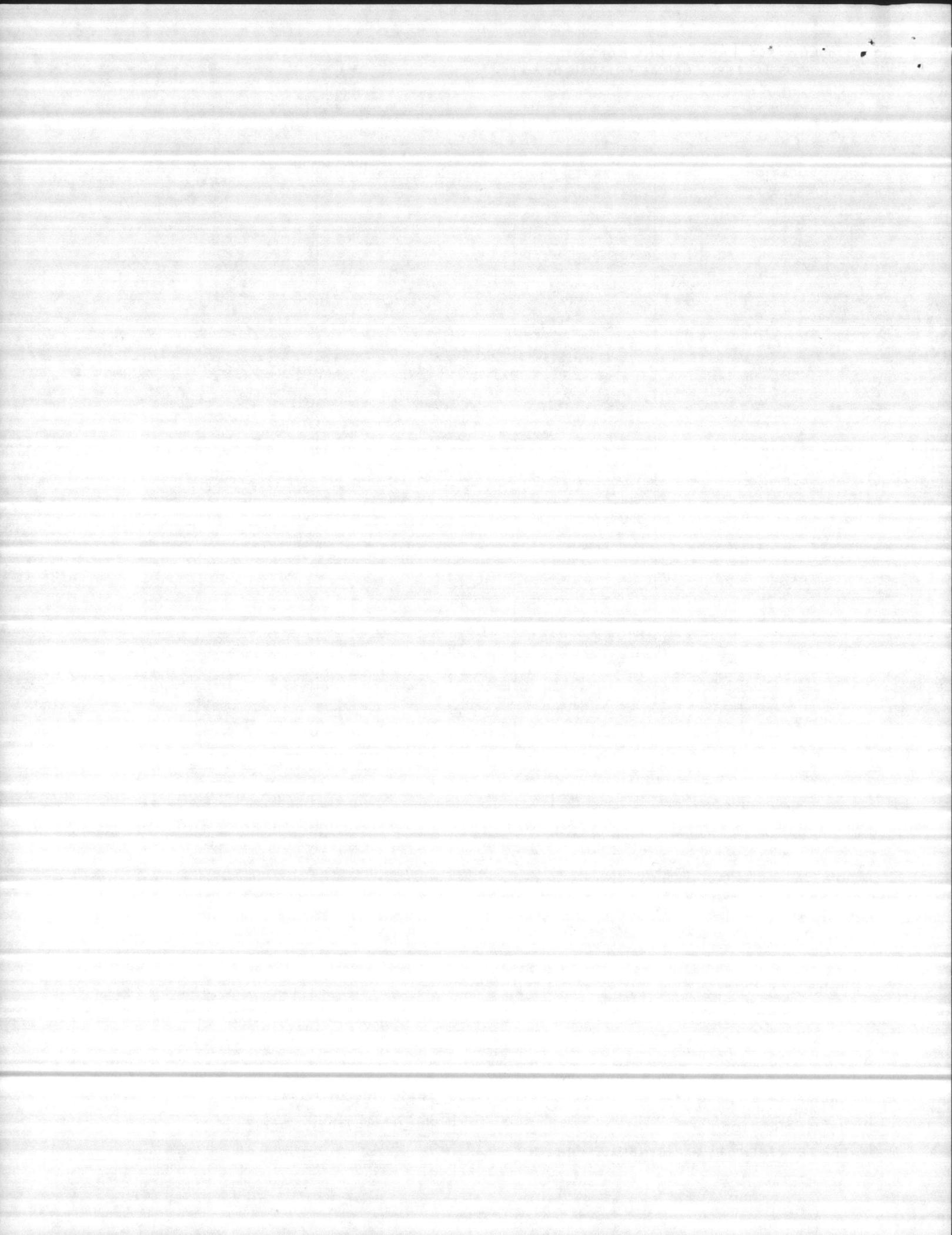
SIGNATURE *H.J. Burns* DATE 8 JULY 83

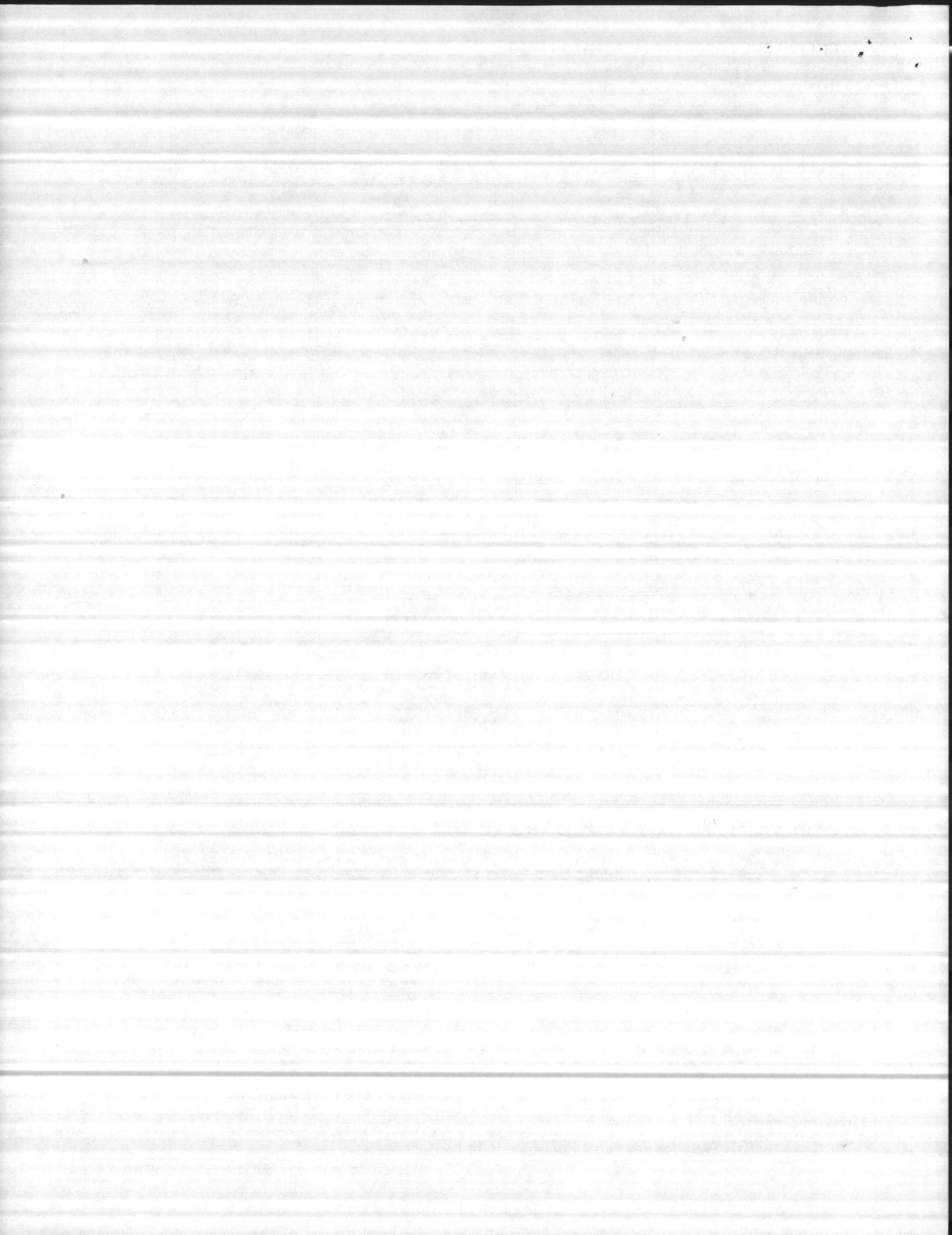
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ENCLOSURE (4)







QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

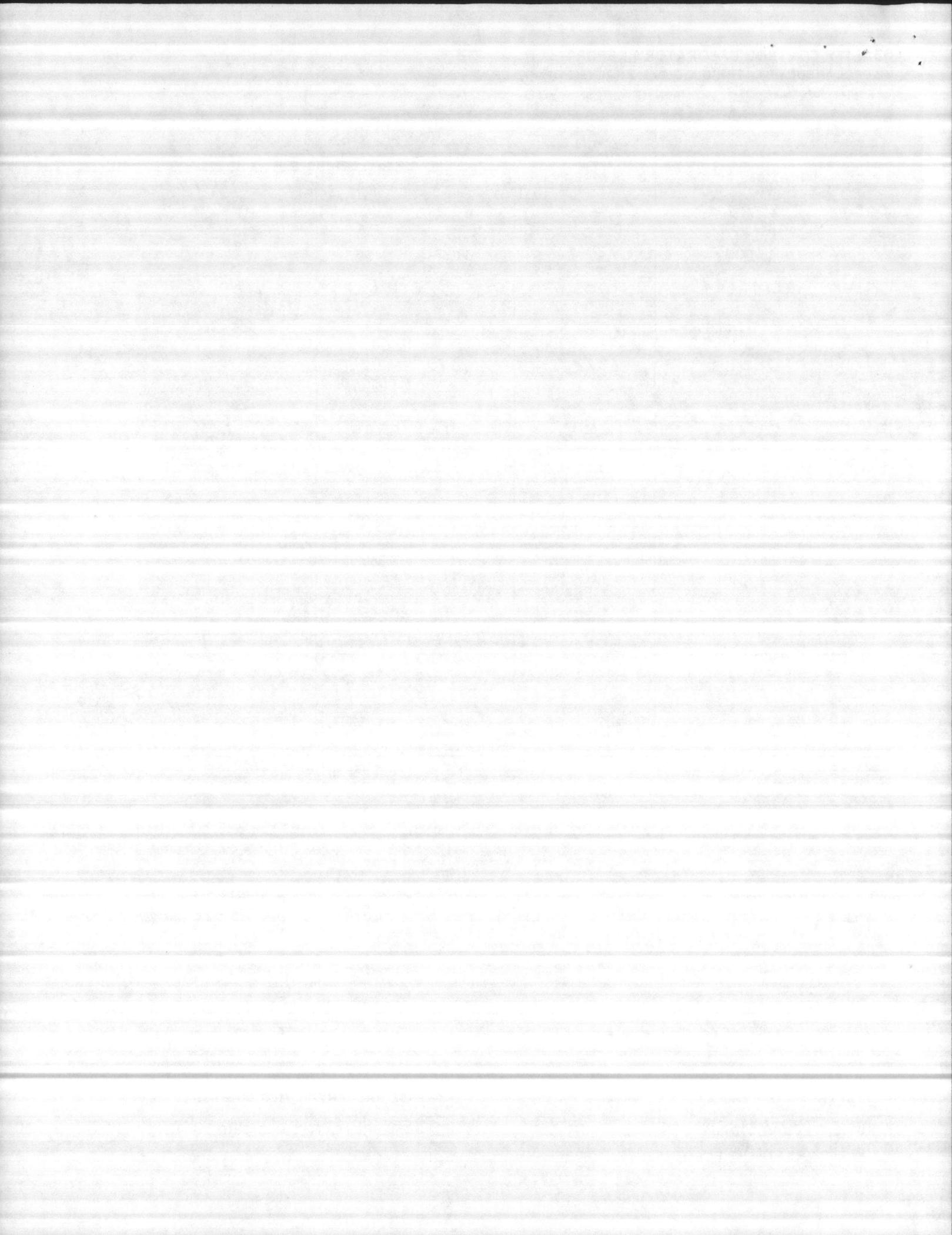
MCBCL 11330/8 (REV. 4/78)

WATER TYPE <i>Recreation</i>	SAMPLE COLLECTED BY <i>HMI FARMER</i>		DATE COLLECTED <i>14 July 83</i>	
LOCATION	TIME MARKED	COLIFORM		
		TOTAL	FECAL	
<i>MCAS MARINA</i>	<i>1045</i>			
<i>#1 Boat Dock</i>	<i>1045</i>	<i>200</i>	<i>4</i>	
<i>#2 1st Bouy</i>	<i>1045</i>	<i>30</i>	<i>4</i>	
<i>#3 Diving Platform</i>	<i>1045</i>	<i>50</i>	<i>0</i>	
<i>#4 Last Bouy</i>	<i>1045</i>	<i>20</i>	<i>4</i>	
	<i>+</i>	<i>+</i>	<i>+</i>	
	<i>-</i>	<i>-</i>	<i>-</i>	

REMARKS
Received in LAB 1450 14 July 83
Set up at 1500 14 July 83

SIGNATURE *James B. Henegrett* DATE *15 July 83*
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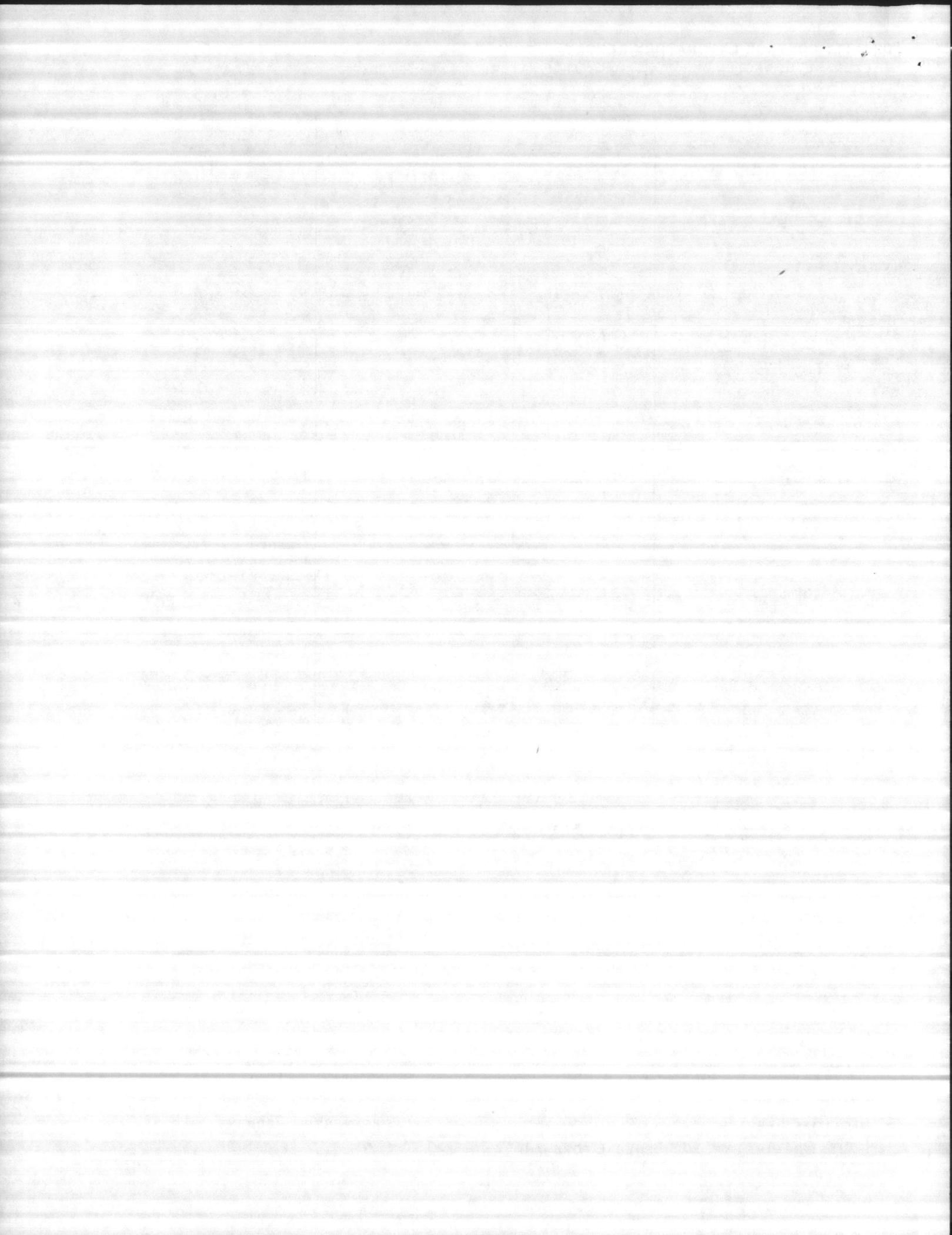
QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
 MCBCL 11330/8 (REV. 4/78)

WATER TYPE <i>Recreation</i>	SAMPLE COLLECTED BY <i>NM2 Shaw</i>	DATE COLLECTED <i>19 July 83</i>			
		LOCATION	MARKED	TOTAL	FECAL
<i>Onslow Beach</i>					
<i>O Beach</i>	<i>0900</i>		<i>∅</i>	<i>∅</i>	
<i>E- Beach</i>	<i>0900</i>		<i>∅</i>	<i>∅</i>	
<i>Surf Beach</i>	<i>0900</i>		<i>∅</i>	<i>∅</i>	
<i>SANCO Beach</i>	<i>0900</i>		<i>∅</i>	<i>∅</i>	

REMARKS
Samples received 1430 19 July 83
" Set up 1500 19 July 83

SIGNATURE *James B. Hargrett* DATE *20 July 83*

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QUALITY CONTROL LABORATORY REPORT
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/8 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTED BY		DATE COLLECTED	
RECREATIONAL	T.M. SHAW		7/26/83	
LOCATION	TIME MARKED	COLIFORM		
		TOTAL	FECAL	
ONSLow BEACH				
OFFICES	0900	φ	φ	
ONSLow BEACH				
SNCO	0900	φ	φ	
ONSLow BEACH				
SURF	0900	φ	φ	
ONSLow BEACH				
INWHISTERS	0900	φ	φ	
MCAS SWIM BEACH	1300	100	4	
MCAS MARINA	1300	100	4	

REMARKS Read LMS 1400 7/26/83

SIGNATURE H. J. Burns DATE 7/27/83

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 - WATER TREATMENT PLANT (GENERAL FOREMAN)
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