

6280/1  
NREAD  
9 May 1985

From: Commanding General, Marine Corps Base, Camp Lejeune  
To: Commanding Officer, Naval Hospital, Marine Corps Base,  
Camp Lejeune

Subj: WATER QUALITY MONITORING AND RELATED ENVIRONMENTAL HEALTH  
CONSIDERATIONS FOR MARCH 1985

Ref: (a) CG MCB CLNC 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 Naval Hospital Ice Samples Bacteriological  
Analysis  
(4) Check Samples from 26 Mar 1985 Weekly Bacteriological  
Analysis  
(5) Bacteriological Analysis of Midway Park Water Laterals  
(6) Analysis of Complaints  
(7) Analysis of Water Samples from Military Units in the  
Field

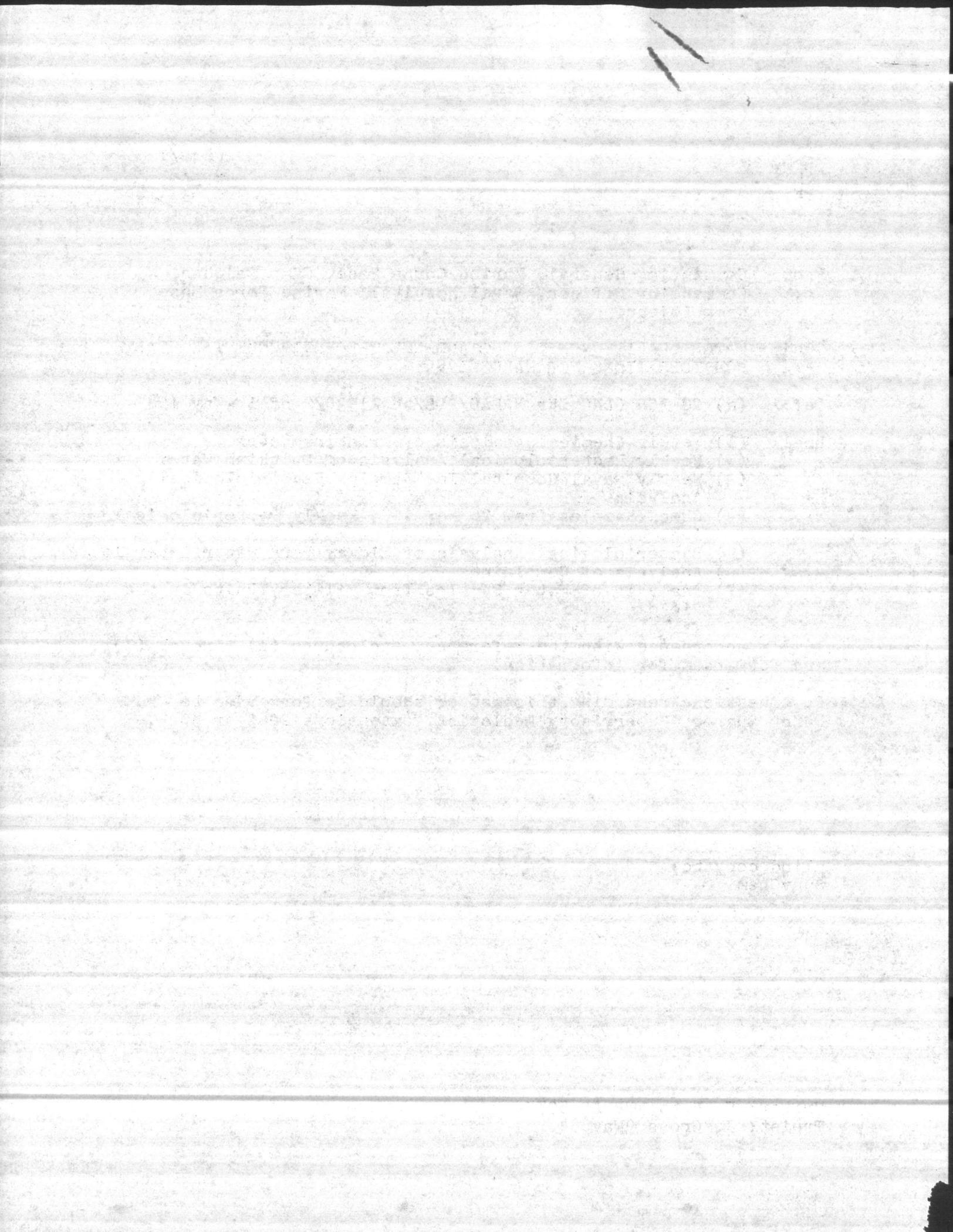
1. In accordance with the reference, enclosures (1) through (7)  
are forwarded for information.

2. Questions regarding this matter should be forwarded to Mr.  
Danny Sharpe, Supervisory Ecologist, extensions 2083 or 5003.

J. I. WOOTEN  
By direction

Blind copy to:  
SupvChem

Writer: E. Betz, NREAD 5977  
Typist: J. Cross 9May85



CHEMICAL ANALYSIS -- WATER TREATMENT PLANTS  
 MCBCL 11330.3 (REV 6-84)

DATE COLLECTED  
 3/5/85

DATE OF ANALYSIS  
 3/5/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.1	7.5	8.6	7.5	8.4	8.3	8.5	8.5		
PHENOLTHALEIN ALKALINITY	8	0	4	0	4	2	4	10		
METHYL ORANGE ALKALINITY	60	190	52	170	160	162	60	170		
CARBONATES AS CaCO <sub>3</sub>	16	0	8	0	8	4	8	20		
BICARBONATES AS CaCO <sub>3</sub>	44	190	44	170	152	158	52	150		
CHLORIDES AS Cl	10	40	10	24	12	30	14	170		
HARDNESS AS CaCO <sub>3</sub>	56	80	76	64	54	100	60	<del>62</del>		
IRON AS Fe	0.05	0.57	<0.04	0.17	0.07	0.08	0.06	0.09		
FLUORIDE	<del>A/P 1.04 1.06</del>	0.18	<del>0.97 0.98</del>	0.18	0.13	0.12	<del>1.00 1.00</del>	0.79		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.2	1.1	1.0	1.3	0.5		
TURBIDITY	<del>0.40 0.40</del>	1.5	<del>0.20 0.40</del>	0.70	0.40	0.60	<del>1.00 0.60</del>	0.6		
TOTAL PHOSPHATE		3.65			1.13					
ORTHO PHOSPHATE		1.13			0.25					
META PHOSPHATE		2.52			0.88					
STABILITY	+0.5	-0.5	+0.1	-0.5	+0.1	+0.3	+0.3	0.0		

REMARKS

COPY TO:

UTIL DIR     \_\_\_\_\_

WATER TREATMENT

PMU     MCAS PMU

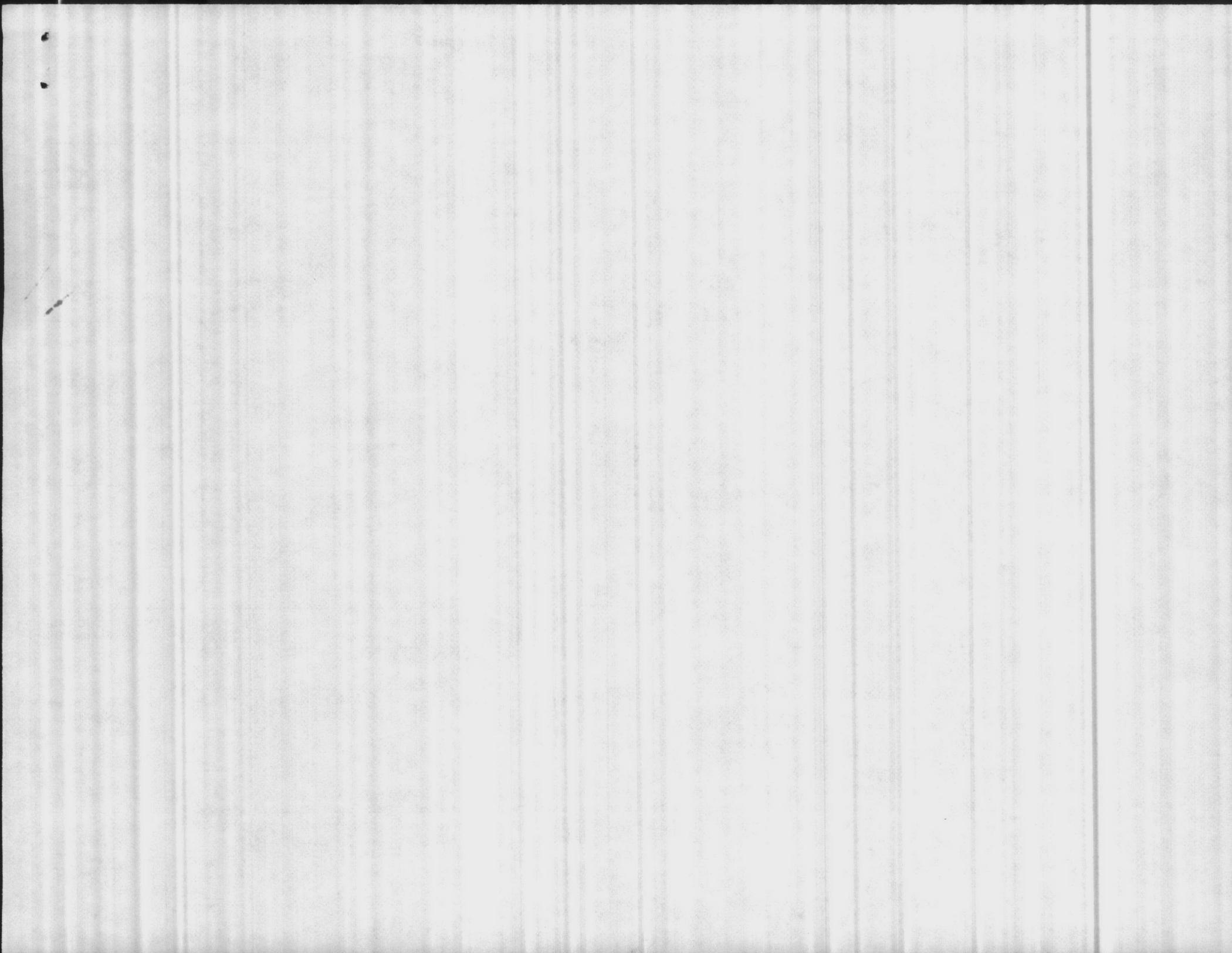
NREAD     FILE

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

16-D Burns & LaChapelle

ENCLOSURE (1)



12 MAR 85

12 MAR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ON SLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.5	7.3	8.8	7.4	8.4	8.2	8.5	8.7
PHENOLTHALEIN ALKALINITY	10	0	10	0	12	2	8	62
METHYL ORANGE ALKALINITY	60	196	46	164	176	170	88	220
CARBONATES AS CaCO <sub>3</sub>	20	0	20	0	24	4	16	124
BICARBONATES AS CaCO <sub>3</sub>	40	196	26	164	152	166	72	96
CHLORIDES AS Cl	30	36	10	18	14	14	10	110
HARDNESS AS CaCO <sub>3</sub>	60	86	68	68	84	74	80	54
IRON AS Fe	<0.04	0.63	<0.04	0.14	<0.04	<0.04	<0.04	<0.04
FLUORIDE	AM PM 1.01 1.05	0.15	<del>0.76</del> 0.67	0.17	0.12	0.09	0.93 0.99	0.74
CHLORINE RESIDUAL	1.0	1.4	1.0	1.0	1.5	1.0	1.0	1.4
TURBIDITY	AM PM 0.2 0.3	0.7	0.2 0.4	0.3	0.3	0.4	0.2 0.2	0.3
TOTAL PHOSPHATE		1.10			0.59			
ORTHO PHOSPHATE		1.04			0.25			
META PHOSPHATE		0.06			0.34			
STABILITY	+0.1	-0.6	+0.2	-0.7	+0.2	0.0	+0.2	0.0

REMARKS

COPY TO:

UTIL DIR     \_\_\_\_\_

WATER TREATMENT

PMU     MCAS PMU

NREAD     FILE

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

*Spencer* 12 MAR 85



19 Mar 1985

19 MAR 1985

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.6	7.3	8.6	7.5	8.4	8.3	8.7	8.8		
PHENOLTHALEIN ALKALINITY	6	0	4	0	8	4	4	12		
METHYL ORANGE ALKALINITY	80	192	58	164	166	150	62	172		
CARBONATES AS CaCO <sub>3</sub>	12	0	8	0	16	8	8	24		
BICARBONATES AS CaCO <sub>3</sub>	68	192	50	164	150	142	54	148		
CHLORIDES AS Cl	10	36	16	20	20	26	8	170		
HARDNESS AS CaCO <sub>3</sub>	86	84	78	66	68	70	62	56		
IRON AS Fe	20.04	0.50	20.04	0.12	20.04	20.04	20.04	20.04		
FLUORIDE	AM 1.05 PM 0.98	0.16	1.13 0.96	0.16	0.12	0.10	0.93 0.83	0.75		
CHLORINE RESIDUAL	1.0	1.2	1.0	1.2	1.2	0.7	0.9	1.3		
TURBIDITY	AM 0.2 PM 0.2	0.9	0.3 0.2	0.2	0.2	0.3	0.1 0.2	0.6		
TOTAL PHOSPHATE		1.84			1.26					
ORTHO PHOSPHATE		0.92			0.28					
META PHOSPHATE		0.92			0.98					
STABILITY	+0.4	-0.8	+0.4	-0.7	+0.1	0.0	+0.4	+0.2		

REMARKS

COPY TO:

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WATER TREATMENT

PMU  MCAS PMU

NREAD  FILE

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

*Lafayette T. Barber*

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both primary and secondary sources, as well as the specific techniques employed for data processing and statistical analysis.

The third section provides a detailed overview of the results obtained from the study. It includes a series of tables and graphs that illustrate the trends and patterns observed in the data. The author also discusses the implications of these findings and how they relate to the overall objectives of the research.

Finally, the document concludes with a summary of the key findings and a list of recommendations for future research. The author suggests that further studies should be conducted to explore the underlying causes of the observed trends and to develop more effective strategies for addressing the issues identified.

DATE COLLECTED  
 26 MAR 85

DATE OF ANALYSIS  
 26 MAR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.9	7.6	9.0	7.8	8.6	8.4	8.8	8.9
PHENOLTHALEIN ALKALINITY	6	0	6	0	2	6	2	12
METHYL ORANGE ALKALINITY	58	190	46	170	156	162	68	160
CARBONATES AS CaCO <sub>3</sub>	12	0	12	0	4	12	4	24
BICARBONATES AS CaCO <sub>3</sub>	46	190	34	170	152	150	64	134
CHLORIDES AS Cl	12	34	14	20	16	20	14	166
HARDNESS AS CaCO <sub>3</sub>	68	86	70	62	74	54	68	54
IRON AS Fe	<0.04	0.48	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
FLUORIDE AM/PM	0.96/0.96	0.17	0.92/0.93	0.15	0.10	0.08	0.93/0.92	0.71
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.5	1.0	0.9	1.4
TURBIDITY AM/PM	0.1/0.2	0.9	0.2/0.3	0.2	0.3	0.1	0.2/0.2	0.2
TOTAL PHOSPHATE		2.70			0.45			
ORTHO PHOSPHATE		1.04			0.16			
META PHOSPHATE		1.66			0.29			
STABILITY	+0.3	-0.3	+0.5	-0.7	0	-0.2	+0.3	0

REMARKS

pH O.B. FOUND = 8.6

COPY TO:

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WATER TREATMENT

PMU  MCAS PMU

NREAD  FILE

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

*Th. Barber*



BACTERIOLOGICAL ANALYSIS OF WATER  
 MCBCL 11330/4 (REV. 7-83)

DATE COLLECTED  
 3-5-85

REPORTABLE POINTS FOR SDWA

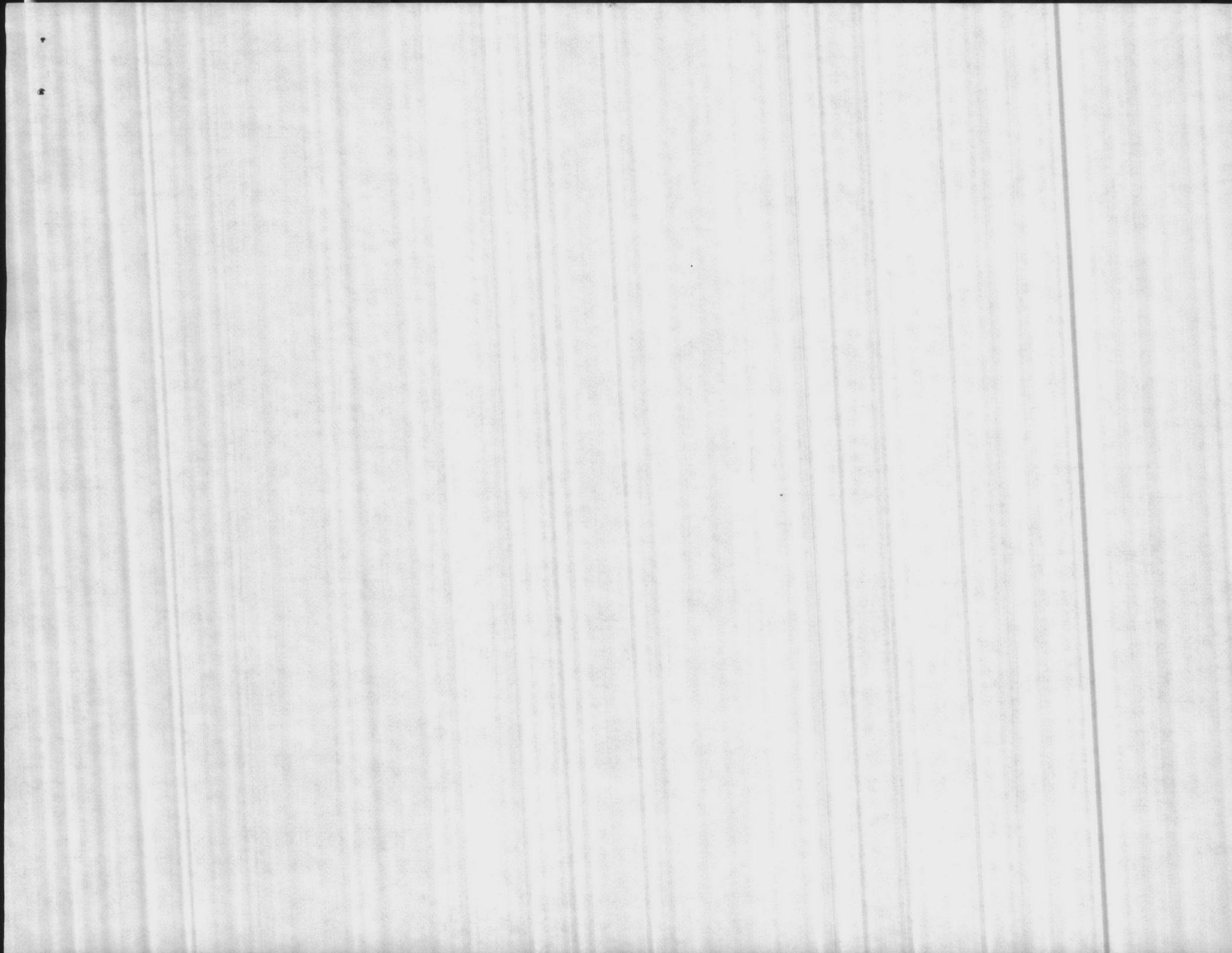
ENCLOSURE (2)

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	Ø	0.5	1100	MCAS - 3502	24	Ø	0.4	0935	TIME RECEIVED 1240
RR - 15	2		0.4	1105	MCAS - 2002	25		0.8	0945	DATE RECEIVED 3-5-85
RR - 10	3		0.5	1115	MCAS - 4157	26		1.5	0925	ACCEPTED BY Burns
	4				MCAS - 2076	27		1.0	0950	DATE ANALYZED 3-5-85
A-1	5		0.8	0930		28				ANALYSIS STARTED 1315
BB - 7	6		0.9	0830	NRMC - Food Service	29		0.7	1125	ANALYSIS FINISHED 1430
BB - 265	7		0.8	0840	PP - 2615	30		0.6	1105	INCUBATOR TEMP 35.5°C
BB - 245	8		0.8	0820	PP - 2613	31		0.7	1115	PROCESSED BY Lachapelle
	9				BM - 5400	32		0.5	0920	
BA - 103	10		1.0	1220	BM - 1985	33		0.5	0925	CUSTODY DATA
BA - 101	11		1.0	1230	LCH - 4022	34		0.6	1145	DATE
	12				LCH - 4000	35		0.8	1140	TIME
TT - 38	13		1.0	0830		36				SIGNATURE
TT - 43	14		0.9	0845	H - 1 Div. Sur. Off	37		1.0	0940	DATE
TT - 1040	15		0.9	0915	H - 18	38		0.5	0945	TIME
	16				FC - 303	39		1.0	1025	SIGNATURE
CK - 1204	17		0.7	1018	FC - 420	40		1.2	1015	
M - 139	18		1.1	1035	FC - 540	41	Ø	1.1	1010	COPY TO:
M - 124	19		1.2	1100	HP - 236	42	Closed			<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43	Ø	0.6	1000	<input type="checkbox"/> WATER TREATMENT
CG - 1	21		0.3	0915	HP - 4900/1400	44	Ø	1.2	0850	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22		1.5	0908	HP - 1407	45	Ø	0.9	0900	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - G-650	23	Ø	0.6	0855		46				<input type="checkbox"/>

REMARKS

SIGNATURE

*Robert J. Lachapelle*



BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		Ø	0.5		0910
FC-19					
SH-8		Ø	0.6		1035
M.P. POOL		Ø	0.3	7.4	1048
#2 POOL		Closed			
#5 POOL		Ø	0.5	7.6	1000
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					

REMARKS

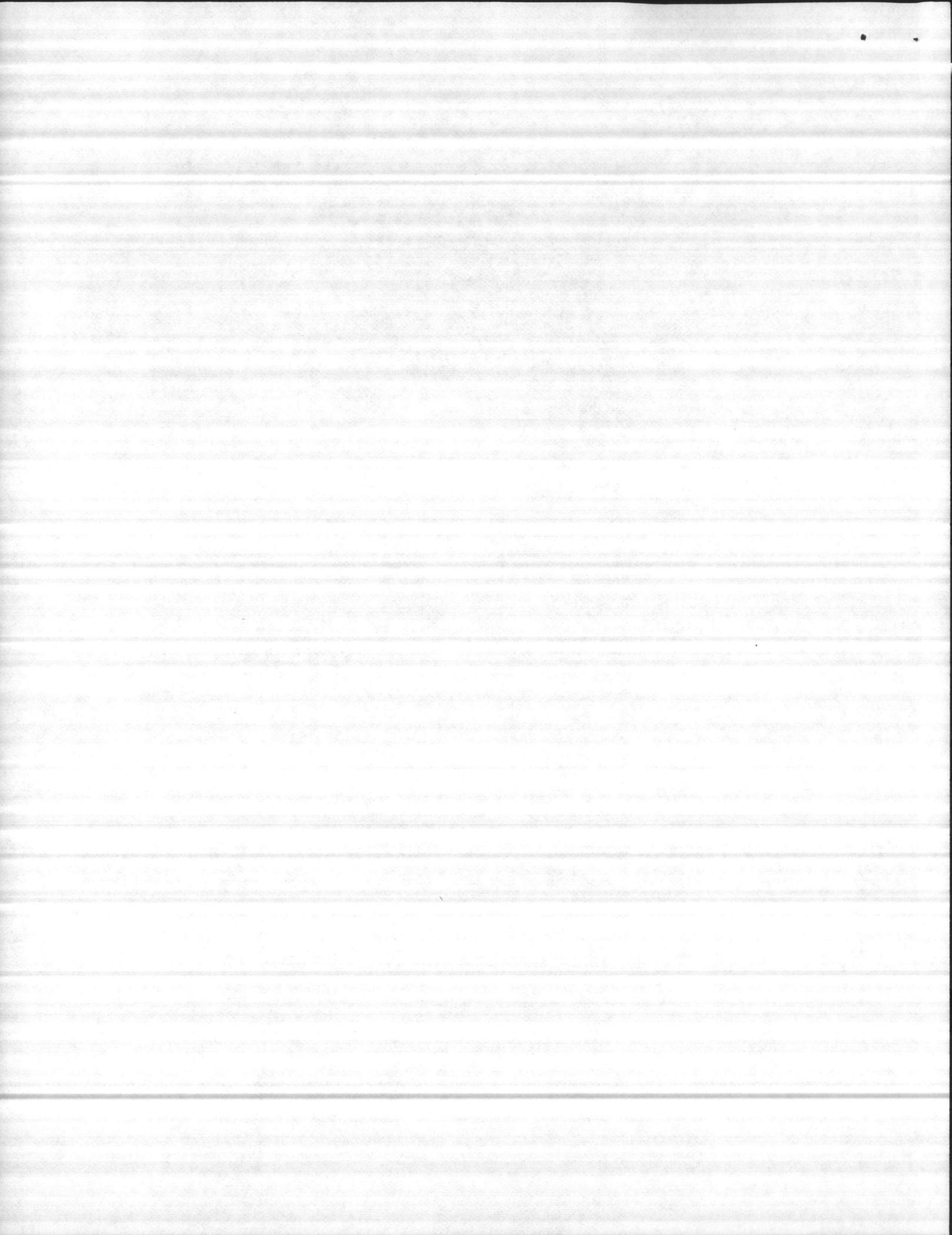
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3-12-85

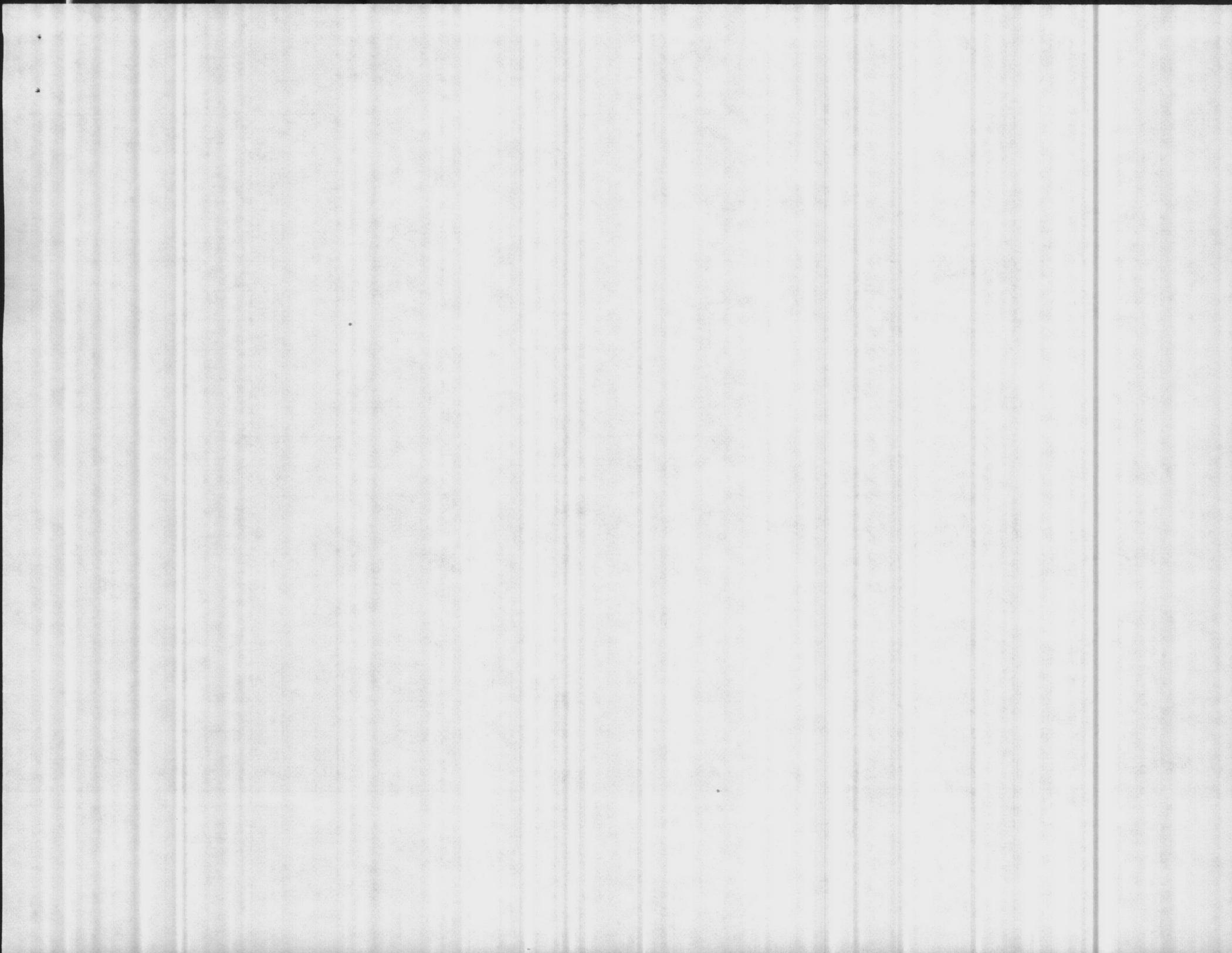
REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	∅	1.0	0950	MCAS - 3502	24	∅	0.4	0940	TIME RECEIVED 1130-1305
RR - 15	2		1.0	0943	MCAS - 2002	25		0.8	0950	DATE RECEIVED 3/12/85
RR - 6	3		1.0	0955	MCAS - 4157	26		0.6	0930	ACCEPTED BY Burns
	4				MCAS - 1135	27		1.0	1000	DATE ANALYZED 3/12/85
A-1	5		1.2	0925		28				ANALYSIS STARTED 1230
BB - 7	6		1.3	0853	NRMC - FOOD SERVICE	29		1.0	1045	ANALYSIS FINISHED 1400
BB - 270	7		1.3	0915	PP - 2615	30		0.7	1025	INCUBATOR TEMP 35°
BB - 45	8		1.3	0846	PP - 2600	31		0.8	1035	PROCESSED BY Burns
	9				BM - 5400	32		0.8	1055	
BA - 103	10		1.2	1030	BM - 1985	33		0.7	1100	CUSTODY DATA
BA - 101	11		1.2	1035	LCH - 4022	34		0.7	1110	DATE
	12				LCH - 4002	35		0.7	1120	TIME
TT - 38	13		1.0	0930		36				SIGNATURE
TT - 43	14		0.9	0945	H - 1	37		0.8	1010	DATE
TT - 2101	15		0.9	1010	H - 16	38		0.8	1015	TIME
	16				FC - 303	39		1.0	0910	SIGNATURE
CK - 1601	17		0.8	1045	FC - 420	40	∅	1.0	0920	
M - 139	18		1.1	1100	FC - 540	41	∅	1.0	0930	COPY TO:
M - 424	19		1.1	1115	HP - 236	42	CLOSED			<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43	∅	0.9	0855	<input type="checkbox"/> WATER TREATMENT
CG - 1	21		0.3	0920	HP - 1400	44	∅	1.1	0840	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	∇	1.5	0910	HP - 20	45	∅	0.9	0955	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - G-650	23	∅	1.0	0855		46				<input type="checkbox"/>

REMARKS

SIGNATURE

3/13/85 K.J. Burns



BACTERIOLOGICAL ANALYSIS OF WATER

NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		ϕ	0.8		0905
FC-19					
SH-8		ϕ	0.5		0945
M.P. POOL		ϕ	1.0	7.4	1050
#2 POOL		Closed			
#5 POOL		ϕ	0.5	7.6	0855
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					

REMARKS

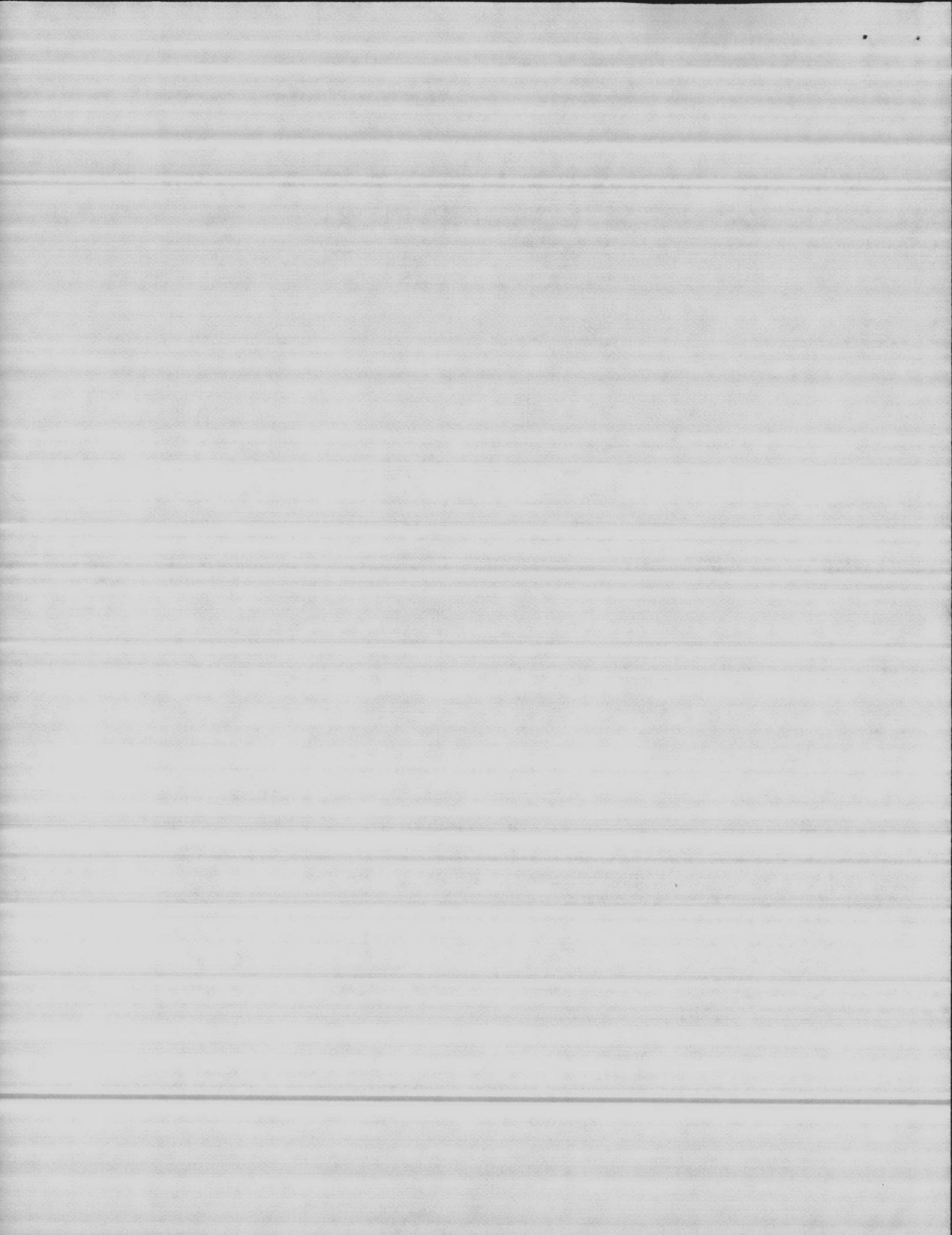
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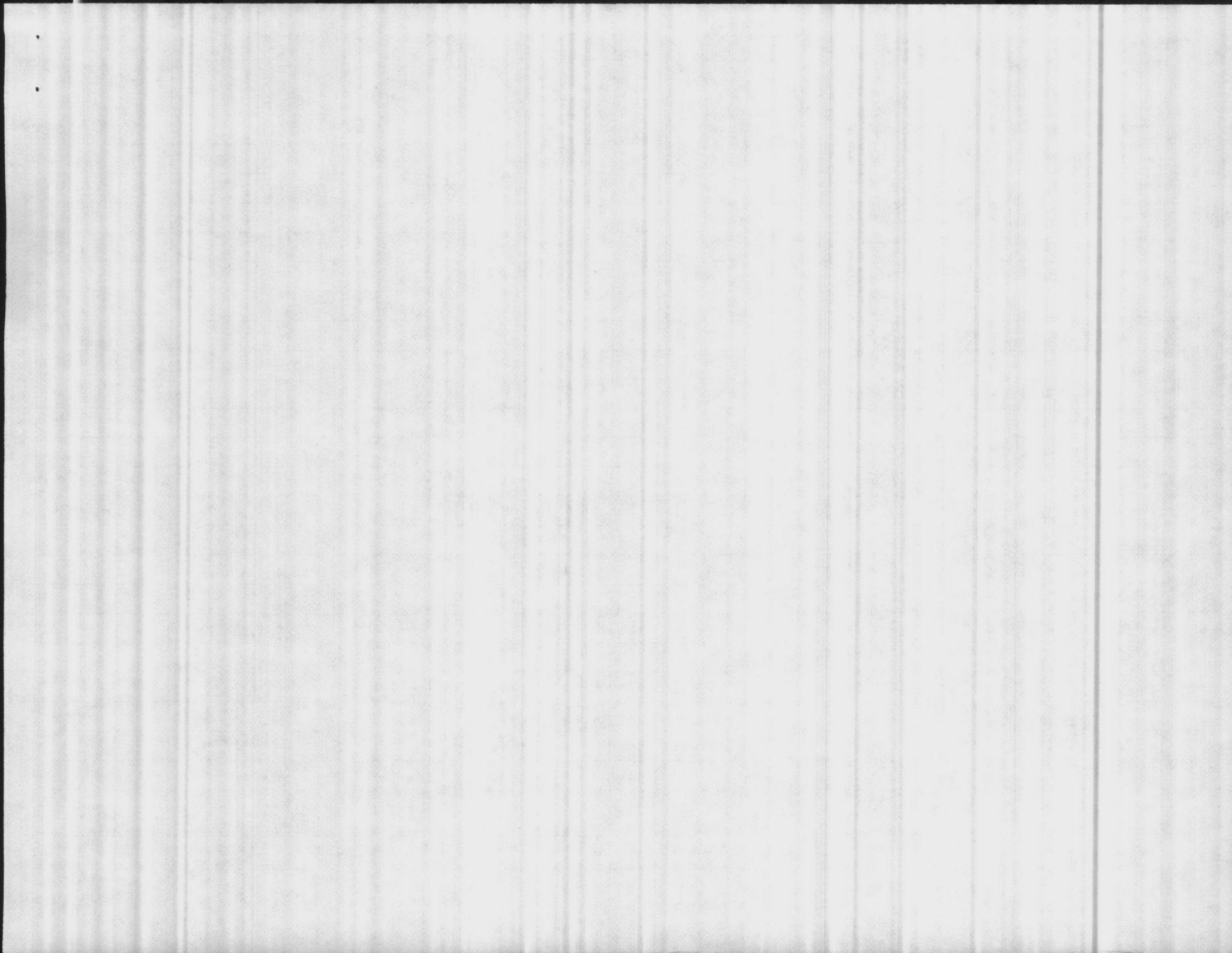
REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	∅	0.8	1020	MCAS - 3502	24	∅	0.3	0940	TIME RECEIVED 1220 - 1330
RR - 15	2	∅	0.9	1030	MCAS - 2002	25	∅	0.6	0950	DATE RECEIVED 3/19/85
RR - 10	3	∅	0.7	1040	MCAS - 4157	26	∅	0.4	0930	ACCEPTED BY Burns
	4	∅			MCAS - 2076	27	∅	0.5	1000	DATE ANALYZED 3/19/85
A-1	5	∅	0.7	1000		28	∅			ANALYSIS STARTED 1245
BB - 7	6	∅	0.8	0845	NRMC - FOOD SERVICE	29	∅	0.8	1106	ANALYSIS FINISHED 1430
BB - 49	7	∅	0.8	0910	PP - 2615	30	∅	0.7	1050	INCUBATOR TEMP 35°
BB - 54	8	∅	0.8	0920	PP - 2617	31	∅	0.8	1056	PROCESSED BY Burns
	9	∅			BM - 5400	32	∅	0.8	1120	
BA - 103	10	∅	0.7	1130	BM - 1985	33	∅	0.7	1130	CUSTODY DATA
BA - 144	11	∅	0.6	1148	LCH - 4022	34	∅	0.7	1145	DATE
	12	∅			LCH - 4000	35	∅	0.7	1150	TIME
TT - 38	13	∅	1.0	0830		36	∅			SIGNATURE
TT - 43	14	∅	1.0	0845	H - 1 WARD 12 - A	37	∅	0.8	1030	DATE
TT - 3847	15	∅	0.9	1255	H - 24	38	∅	0.9	1037	TIME
	16	∅			FC - 303	39	∅	0.9	0920	SIGNATURE
CK - 1612	17	∅	0.9	1000	FC - 420	40	∅	1.0	0928	
M - 139	18	∅	1.1	1030	FC - 400	41	∅	0.8	0934	COPY TO:
M - 19	19	∅	1.2	1045	HP - 236	42	Chosen	—		<input checked="" type="checkbox"/> UTIL DIR
	20	∅			HP - 540	43	∅	0.9	0900	<input type="checkbox"/> WATER TREATMENT
CG - 1	21	∅	0.3	0920	HP - 1400	44	∅	1.0	0847	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	∅	1.0	0910	HP - 1500	45	∅	0.8	0855	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - G-650	23	∅	0.6	0900		46	∅			<input type="checkbox"/>

REMARKS

SIGNATURE

Burns 3/20/85



**BACTERIOLOGICAL ANALYSIS OF WATER**

**NON-REPORTABLE**

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		ϕ	0.4		0930
FC-19					
SH-8		ϕ	0.8		1000
M.P. POOL		ϕ	1.0	7.6	1015
#2 POOL		CLOSED			
#5 POOL		ϕ	0.8	7.8	0900
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					

REMARKS

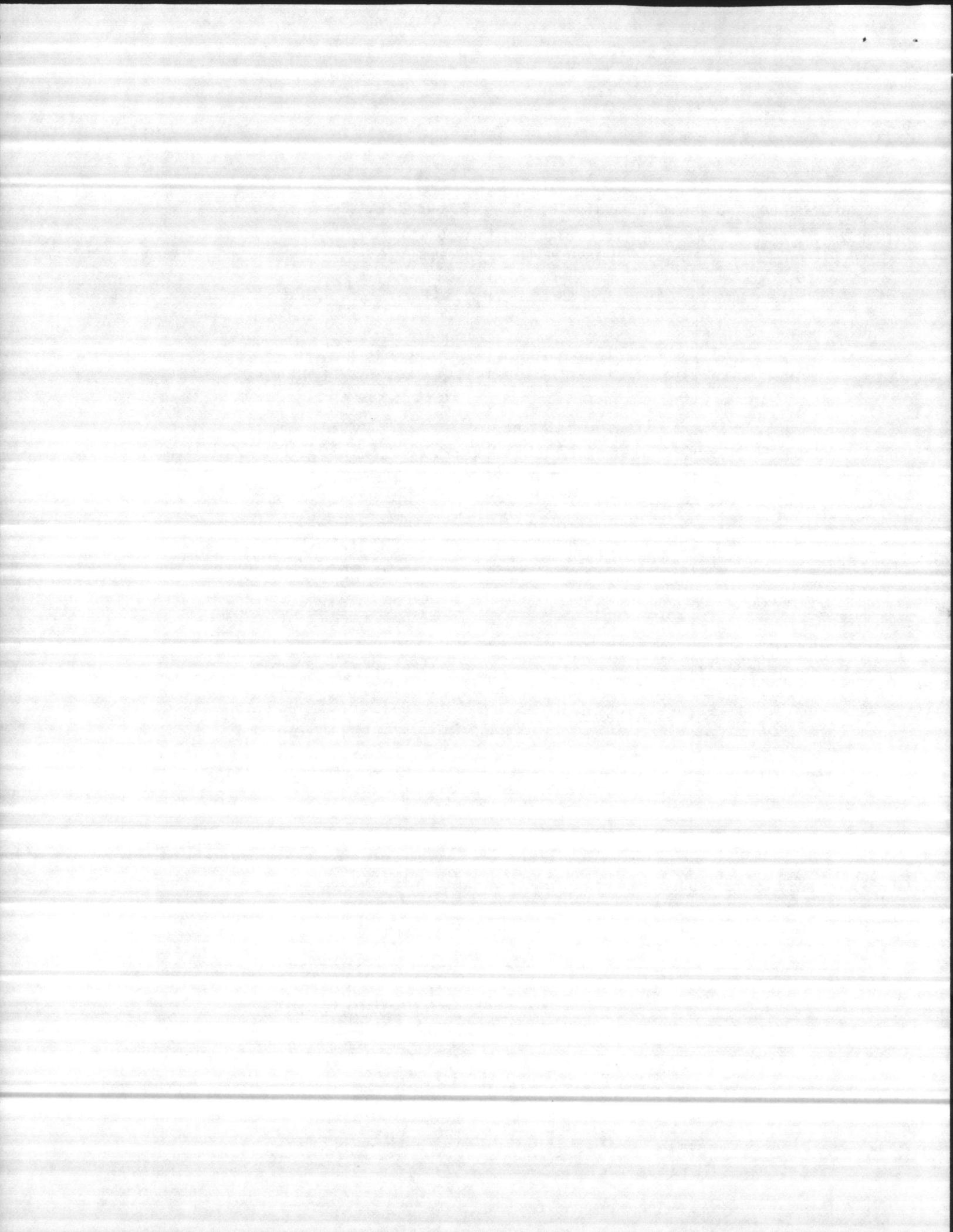
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DATE RECEIVED  
 3/26/85

REPORTABLE POINTS FOR SDWA

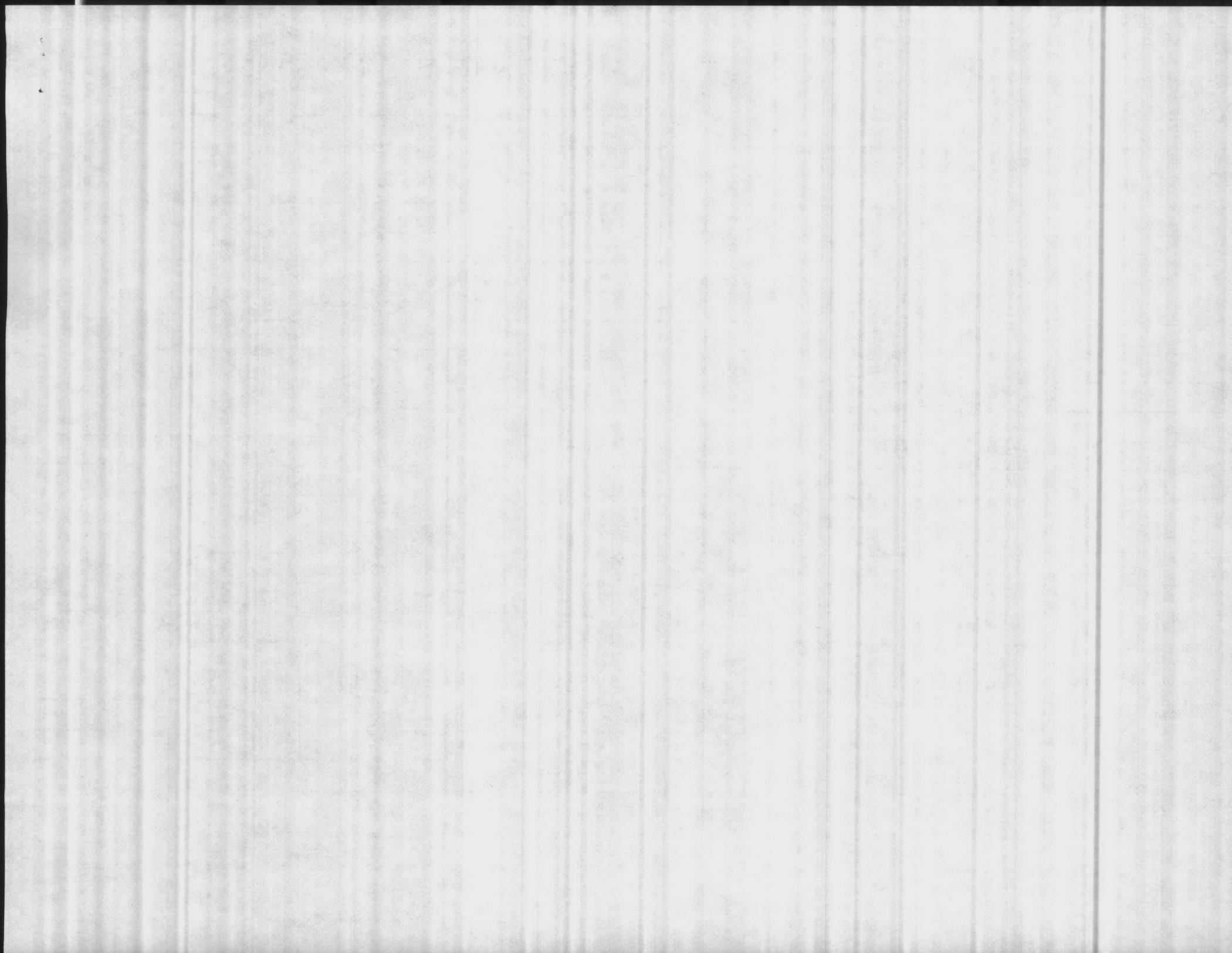
WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	LABORATORY DATA
RR - 3	1	0	0.8	0900	MCAS - 3502	24	0	0.4	0930	TIME RECEIVED 1120-1330
RR - 15	2		0.9	0900	MCAS - 2002	25		0.3	0940	DATE RECEIVED 3-26-85
RR - 6	3		0.9	0920	MCAS - 4157	26		0.3	0920	ACCEPTED BY 13URNS
	4				MCAS - 1014	27		1.0	0950	DATE ANALYZED 3-26-85
A-1	5		1.5	0945		28				ANALYSIS STARTED 1220
BB - 7	6		1.3	1000	NRMC - FOOD SERVICE	29		0.7	1105	ANALYSIS FINISHED 1440
BB - 49	7		1.5	1015	PP - 2615	30		0.8	1040	INCUBATOR TEMP 35
BB - 9	8		1.4	1030	PP - 2600	31		0.5	1055	PROCESSED BY 13URNS
	9				BM - 5400	32				
BA - 103	10		1.3	1100	BM - 1985	33		0.5	1120	CUSTODY DATA
BA - 101	11		1.2	1120	LCH - 4022	34		0.7	1140	DATE
	12				LCH - 4014C	35		0.8	1145	TIME
TT - 38	13		1.0	0945		36				SIGNATURE
TT - 43	14		1.0	1000	H - 1 OFF. DIV. SERGEANT'S	37		0.9	1020	DATE
TT - 2265	15	Y	1.0	1045	H - 16	38		0.9	1025	TIME
	16	0			FC - 303	39		1.0	0920	SIGNATURE
CK - 1110	17	TNTC	0.8	1030	FC - 420	40	Y	1.0	0910	
M - 139	18	0	1.2	1115	FC - 540	41	0	1.2	0905	COPY TO:
M - 103	19		1.1	1130	HP - 236	42	CLOSED			<input checked="" type="checkbox"/> UTIL DIR
	20				HP - 540	43	0	0.8	0855	<input type="checkbox"/> WATER TREATMENT
CG - 1	21		0.3	0910	HP - 4888 1400	44	↓	0.8	0835	<input type="checkbox"/> PMU <input type="checkbox"/> MCAS PMO
TC - 830	22	Y	1.5	0900	HP - 1202	45	0	0.9	0955	<input type="checkbox"/> NREAD <input type="checkbox"/> FILE
TC - G-650	23	0	1.0	0845		46				<input type="checkbox"/>

REMARKS

NOTED: RESAMPLE #17 CK 1110 (X2)

SIGNATURE

3/27/85 HJ Burns



**BACTERIOLOGICAL ANALYSIS OF WATER**

**NON-REPORTABLE**

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		∅	0.6		1050
FC-19					
SH-8		∅	2.0		0935
M.P. POOL		∅	0.7	7.8	1115
#2 POOL		CLOSED			
#5 POOL		∅	0.4	7.4	0855
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					

REMARKS

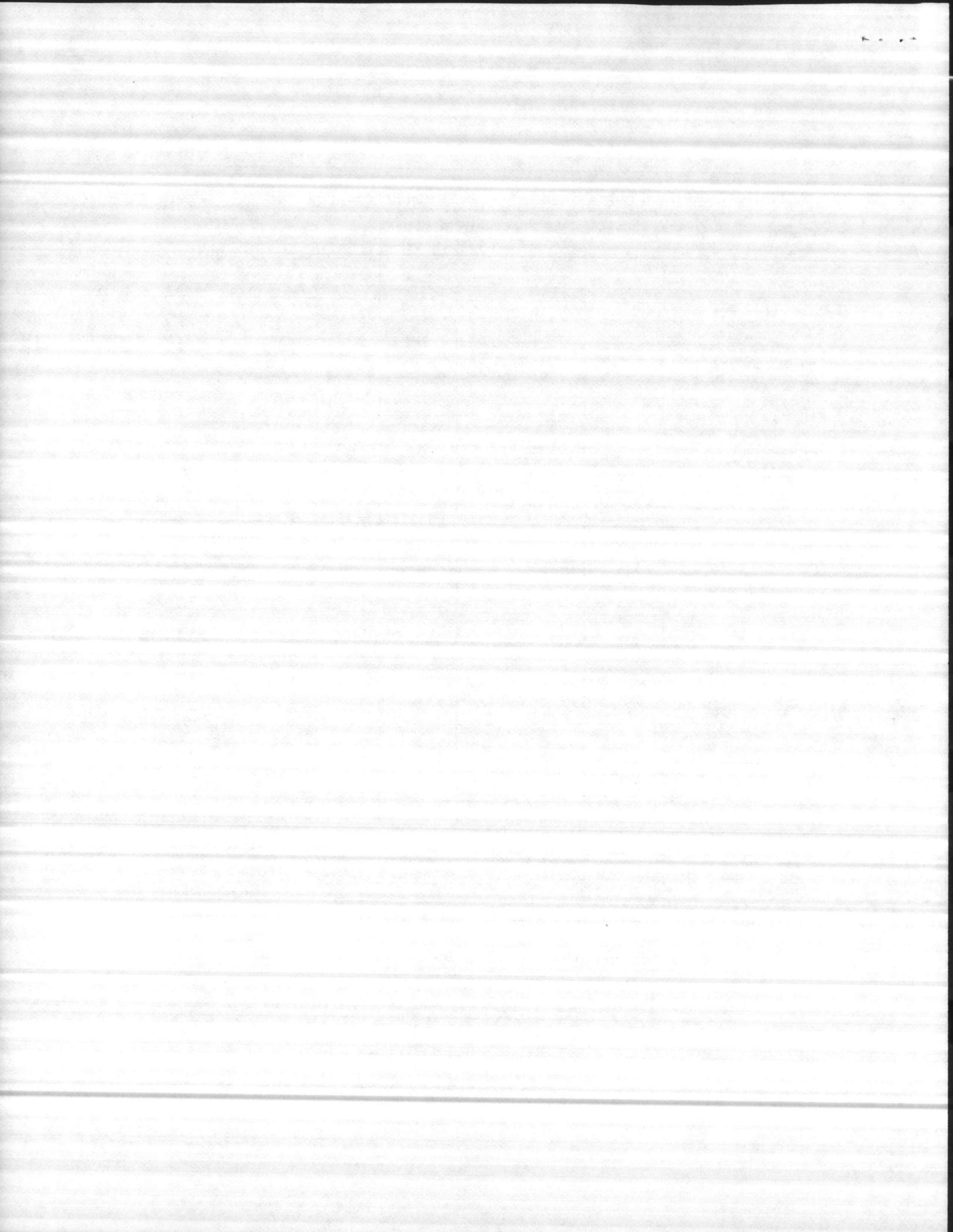
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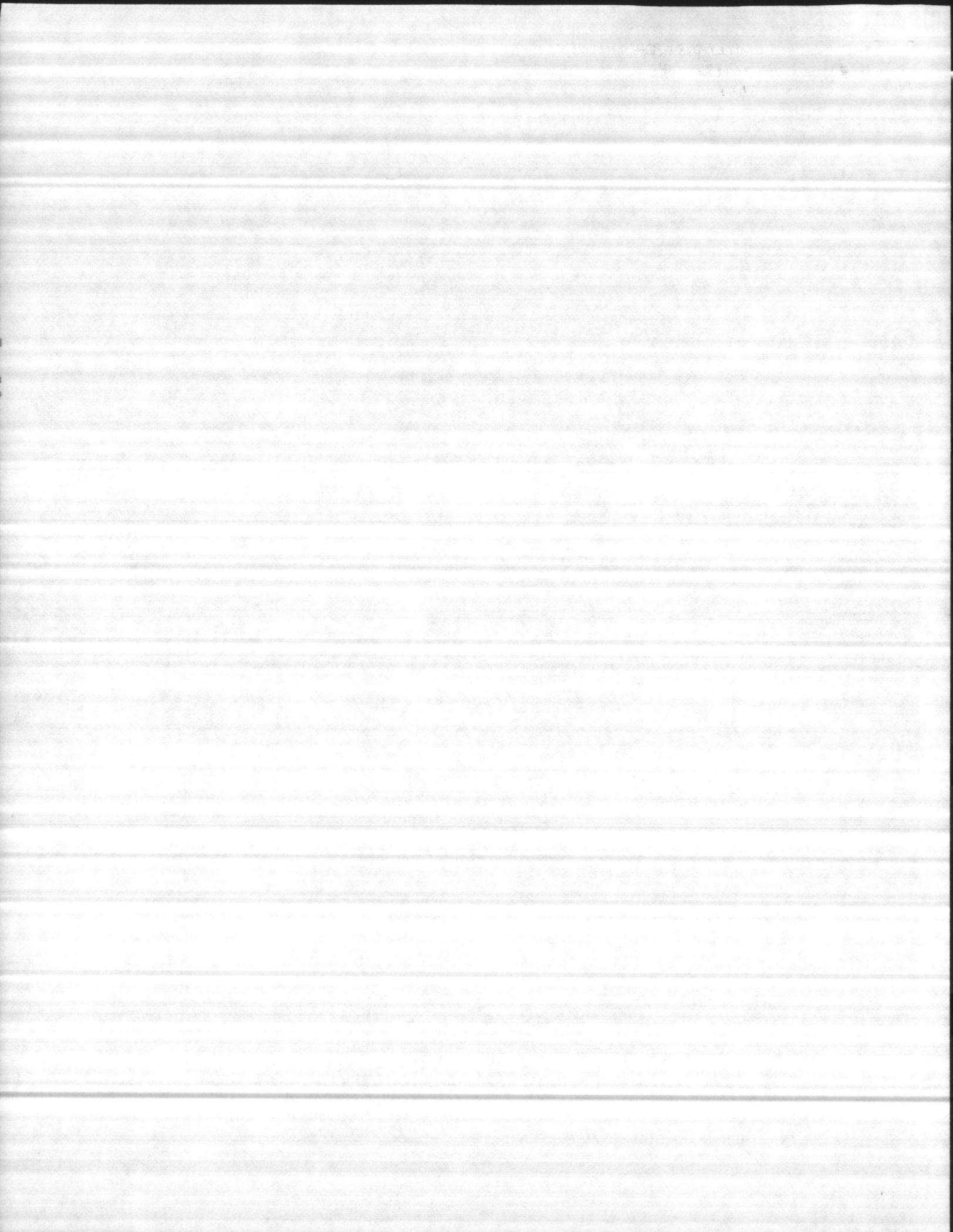
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**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**

MCBCL 11330/8 (REV. 4/78)

*file*

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
POTABLE		KEN HUGHES		1 APR 85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
1405 MIDWAY PARK	CL <sub>2</sub> 0.4	0			
1413	↓	0			
1415		0			
1419		0			
1420		0			
1432		0			
1435		0			

REMARKS

*Reid lot 1401, 1 APR 85, by THB*

*KEN HUGHES NOTIFIED VERBALLY*

SIGNATURE

*H. J. Burns*

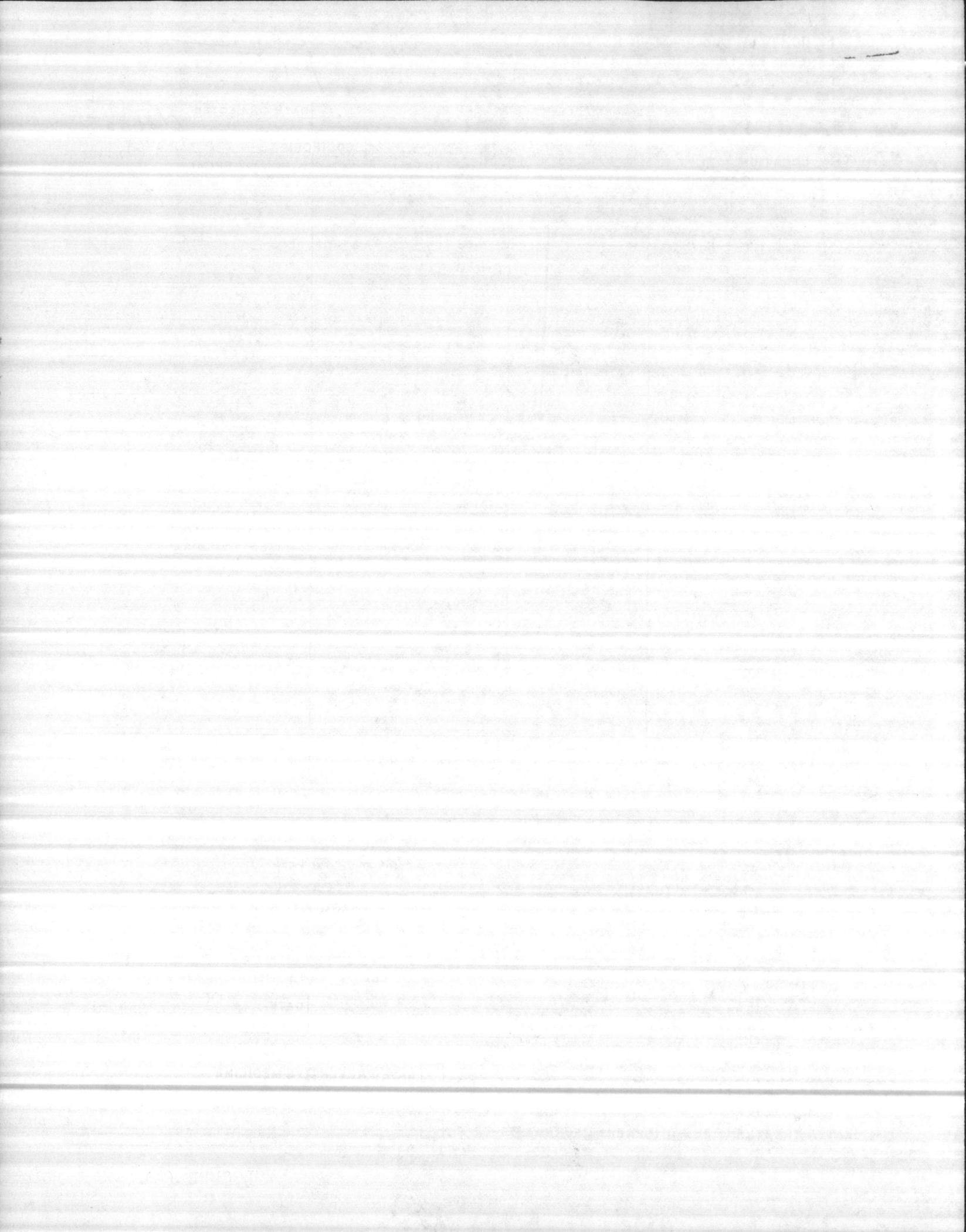
DATE

*2 APR 85*

COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE



QUALITY CONTROL LABORATORY REPORT  
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER  
 MCBCL 11330/6 (REV. 4/78)

FILE

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
POTABLE		WATER PLANT		27 MAR 85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
CK 1110		0			
<del>XXXXXXXXXX</del>					
REPEAT (#1)					
POSITIVE WATER					
SAMPLED 27 MAR 85					

CK 1110 0.8  
 1110 10:00

REMARKS

Rec'd lab 1515, Thurs. started analysis at 1522.

SIGNATURE

H. J. Burns

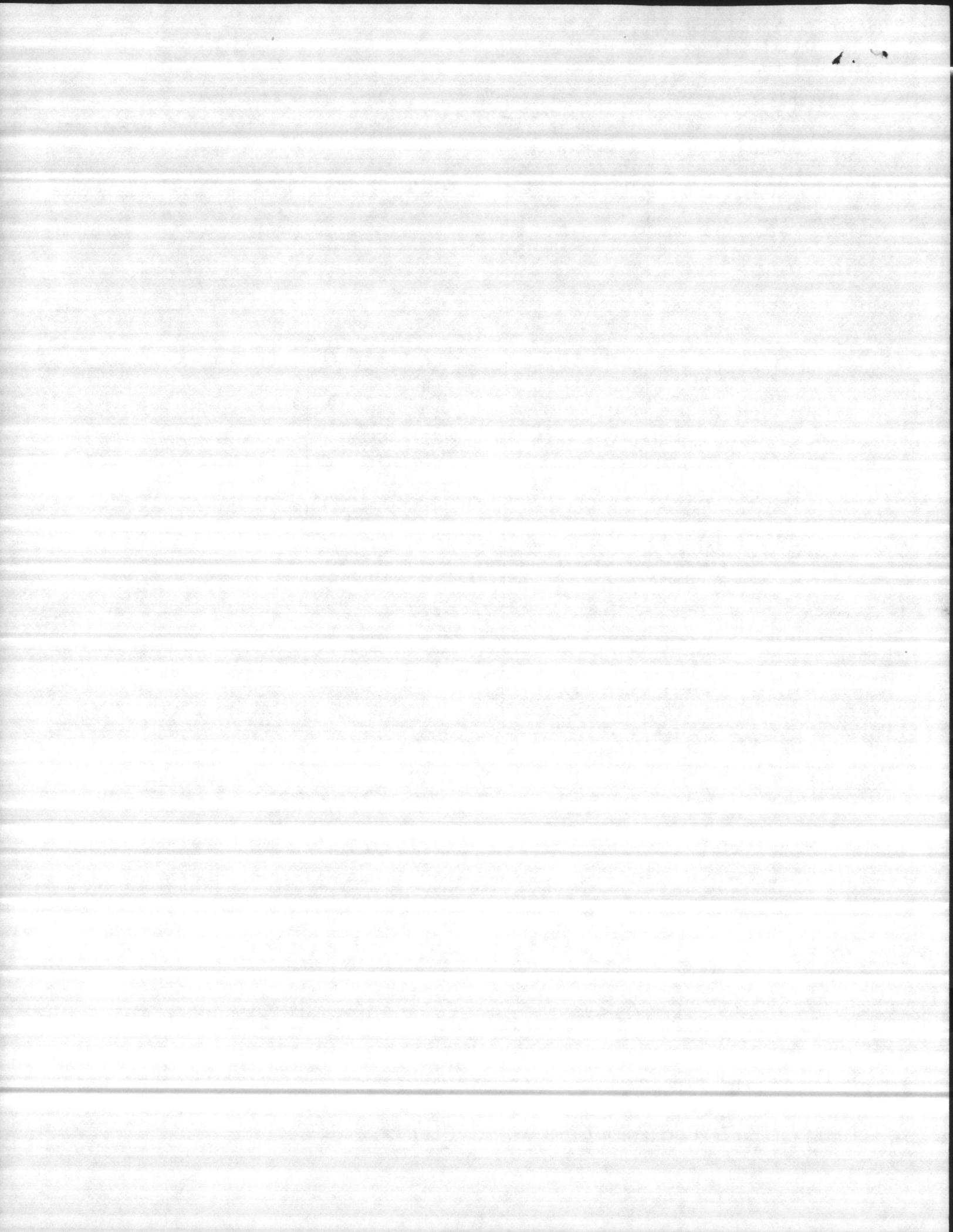
DATE

28 MAR 85

COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE



QUALITY CONTROL LABORATORY REPORT  
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER  
 MCBCL 11230/8 (REV. 4/78)

*File*

WATER TYPE <i>POTABLE</i>	SAMPLE COLLECTED BY <i>W.T.P.</i>	DATE COLLECTED <i>3/28/85</i>			
		LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL		
<del>CK 1110</del>		$\phi$			
CK 1110 <sup>2ND</sup> (RISAMPLE)					
POSITIVE SAMPLE					
OF 27 MAR 85					

REMARKS  
*Rec'd LAB 1005 3/28/85*  
*SET UP 1015 3/28/85*

SIGNATURE *H. J. Burns* DATE *3/29/85*

- COPY TO
- NREAD
  - UTILITIES DIRECTOR
  - WATER TREATMENT PLANT (GENERAL FOREMAN)
  - BASE PREVENTIVE MEDICINE
  - MCAS PREVENTIVE MEDICINE



QUALITY CONTROL LABORATORY REPORT  
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

*F. v. e.*

MCBCL 11230/8 (REV. 4/78)

WATER TYPE: *Portable - Midway Park*      SAMPLE COLLECTED BY: *Ken Hughes - Public Works*      DATE COLLECTED: *3/1/85*

LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
<i>Midway Park 608</i>	<i>Cl<sub>2</sub> 0.6</i>	<i>Φ</i>	
<i>614</i>	<i>Cl<sub>2</sub> 0.6</i>	<i>Φ</i>	
<i>606</i>	<i>Cl<sub>2</sub> 0.6</i>	<i>Φ</i>	
<i>610</i>	<i>Cl<sub>2</sub> 0.6</i>	<i>Φ</i>	
<i>604</i>	<i>Cl<sub>2</sub> 0.6</i>	<i>Φ</i>	
<i>600</i>	<i>Cl<sub>2</sub> 0.6</i>	<i>Φ</i>	
<i>612</i>	<i>Cl<sub>2</sub> 0.6</i>	<i>Φ</i>	

*612 - .6*      *610 - .6*  
*604 - .6*      *614 - .6*  
*1:57*

REMARKS

*Samplers taken between 1250-1330*  
*Recd. 3/1/85 1330*

*600 Cl<sub>2</sub> - .6*  
*608 - .6*

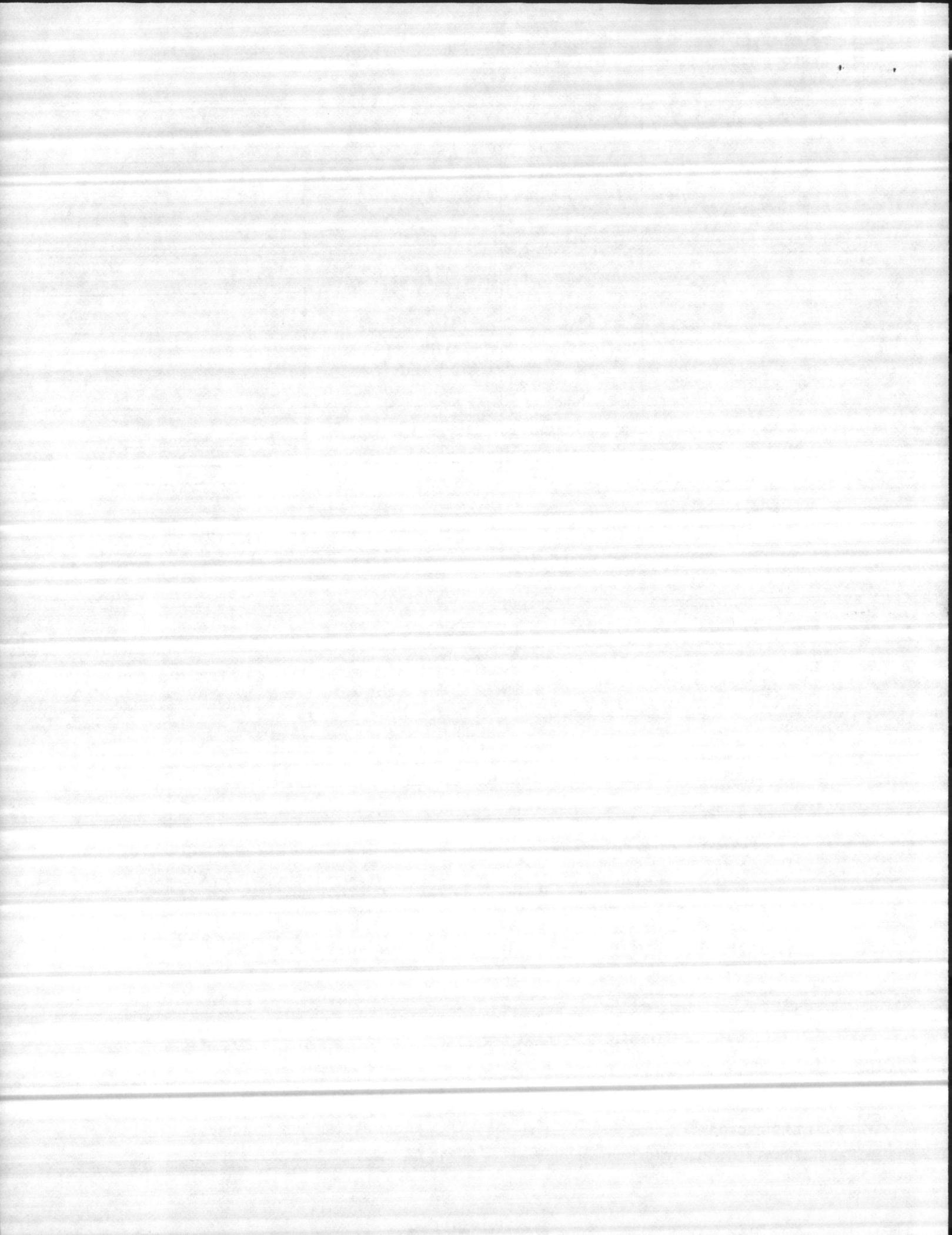
*606 - .6*  
*Vacant - Outside Tap*

*Ken Hughes  
 Verifying Notifying*

SIGNATURE: *H. J. Burns*      DATE: *3/2/85*

COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)
- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE



**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**  
 MCBCL 11330/8 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTED BY		DATE COLLECTED	
POTABLE	KEN HUGHES		3/5/85	
LOCATION	MARKED	COLIFORM		
		TOTAL	FECAL	
MIDWAY PARK	1001	Ø		
	1010			
	1020			
ALL SAMPLES	1000			
Tank 130 Turb. 1	1024			
0800 - 1000	1016			
3/5/85	1012			
	1014			
Ch2 - 0.46	1022			
	1006			
	1018			
	1002			
	1025			
	1004			
	1007			

REMARKS

1008

Need log 1130 3/5/85

Called 1130 3/6/85 to discuss

SIGNATURE

*Robert J. ...*

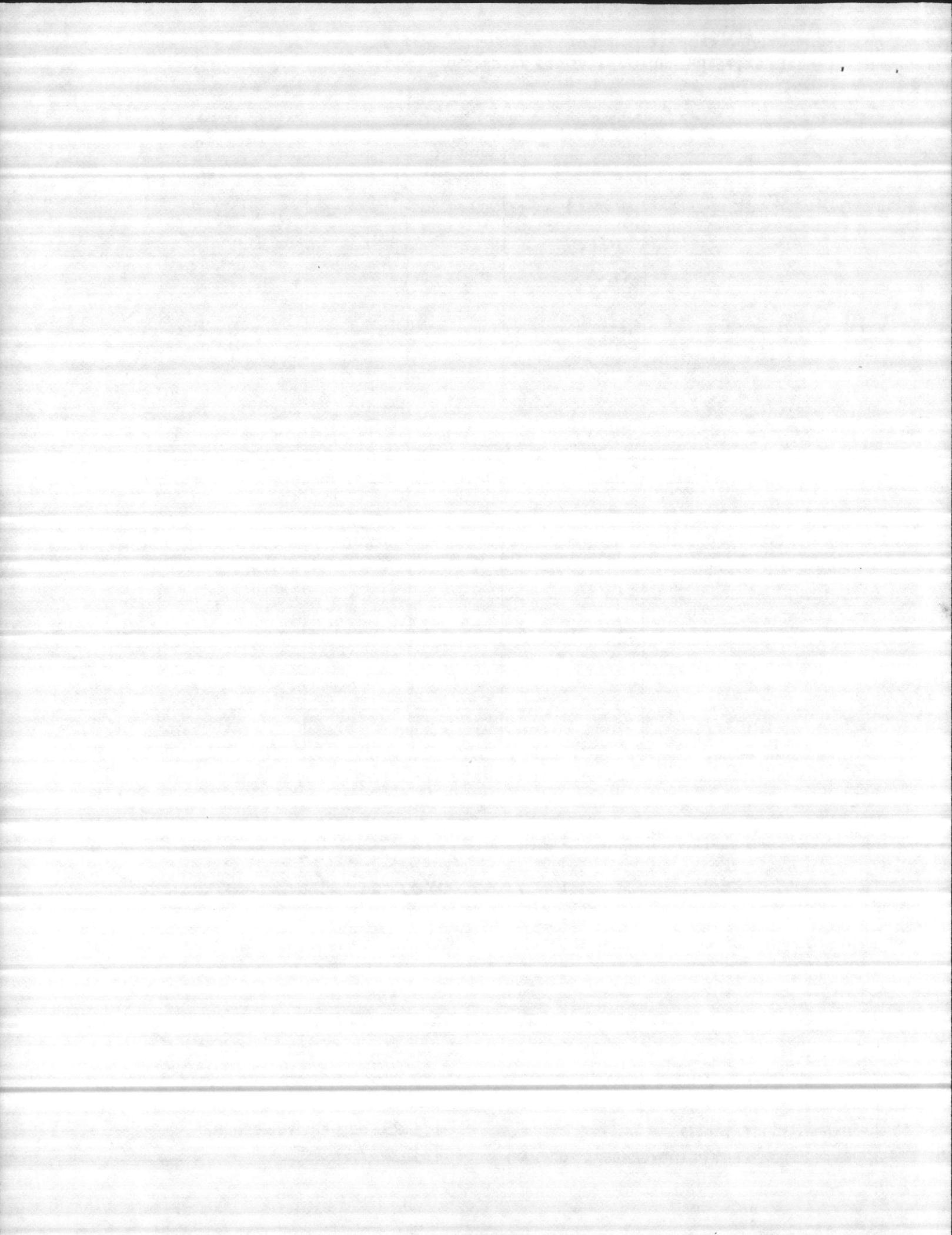
DATE

3-6-85

COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- File



QUALITY CONTROL LABORATORY REPORT  
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11320/8 (REV. 4/78)

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
POTABLE		KEN HUGHES		3/5/85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
Midway Park	1201	0			
	1205				
ALL SAMPLES	1213				
TAKEN BETWEEN	1214				
0800 - 1000	1212				
3/5/85	1211				
	1210				
Ch - 0.4	1200				
	1208				
	1204				
	1202				
	1206				
	1207				

REMARKS

Reco Lms 1130 3/5/85

SIGNATURE

*Robert J. Tuberville*

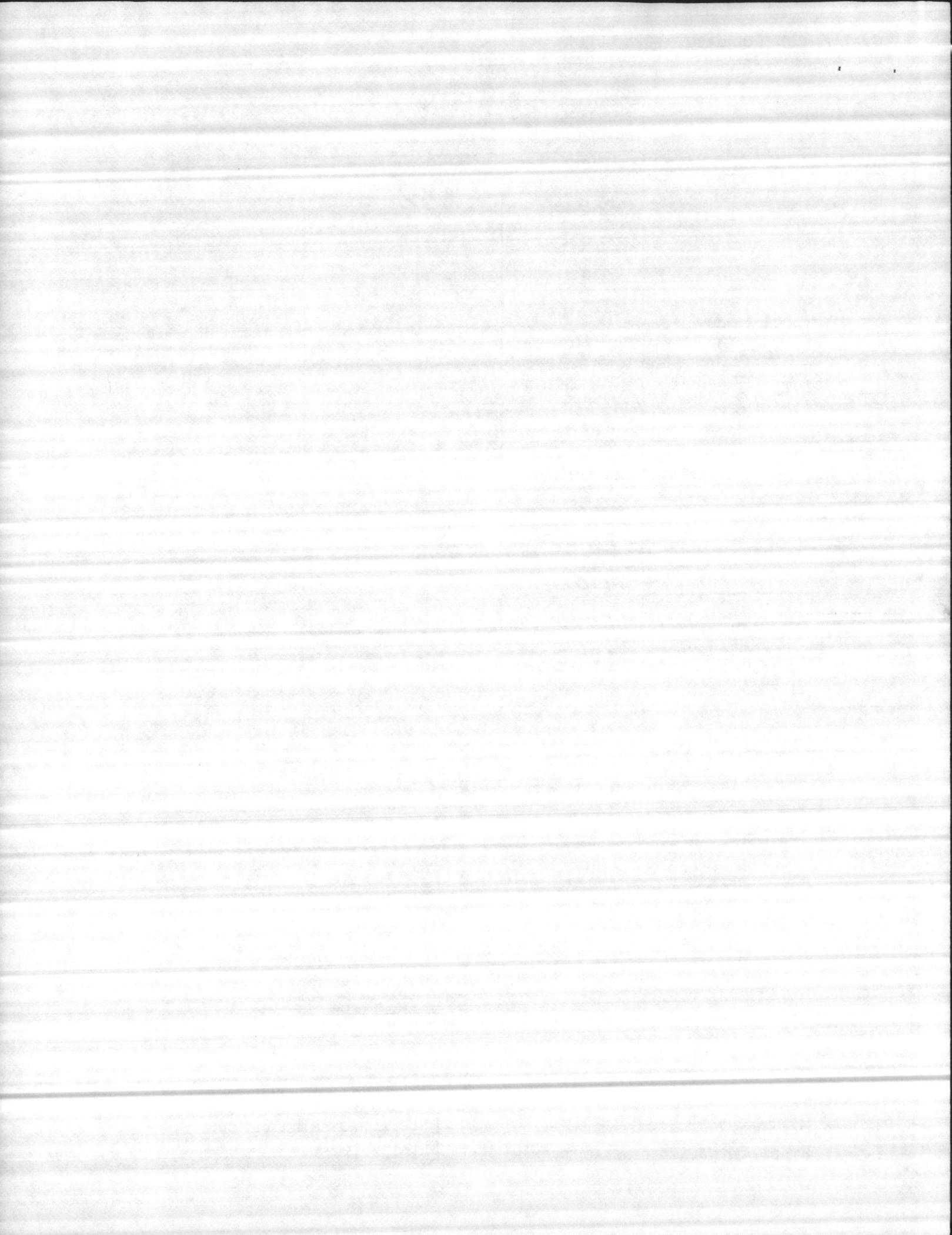
DATE

3-6-85

COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE



**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**

*file*

MCBCL 11390/8 (REV. 4/78)

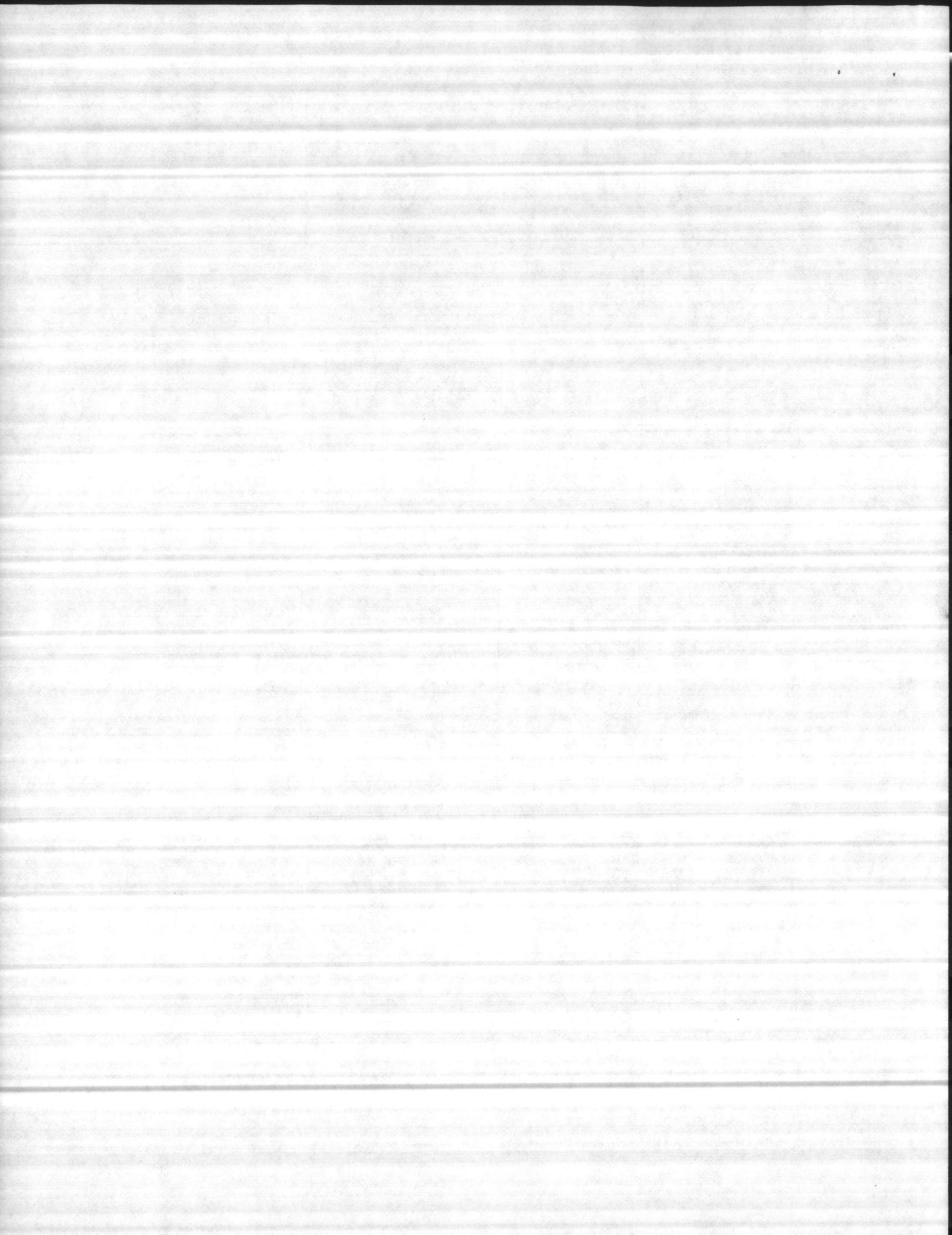
WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
<i>Table</i>		<i>Ken Hughes / PW.</i>		<i>3-7-85</i>	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
<i>1028</i>	<i>1400 0.6</i>	<i>0</i>			
<i>1129</i>	<i>1442 0.6</i>	<i>0</i>			
<i>1133</i>	<i>1438 0.6</i>	<i>0</i>			
<i>1135</i>	<i>1338 0.6</i>	<i>0</i>			
<i>1137</i>	<i>1453 0.6</i>	<i>0</i>			
<i>1140</i>	<i>1404 0.6</i>	<i>0</i>			
<i>1141</i>	<i>1417 0.6</i>	<i>0</i>			
<i>1042</i>	<i>1410 0.6</i>	<i>0</i>			
<i>1044</i>	<i>1355 0.6</i>	<i>0</i>			
<i>1045</i>	<i>1410 0.6</i>	<i>0</i>			
<i>1047</i>	<i>1414 0.6</i>	<i>0</i>			
<i>1056</i>	<i>1410 0.6</i>	<i>0</i>			
<i>1215</i>	<i>1334 0.6</i>	<i>0</i>			

REMARKS *Rec 1515 3-7-85*

NOTE: 1028 12 coliforms - notified - No sample  
 called Public Works - no answer 3/8/85  
 called Public Works 0855 no answer 3/11/85  
 Public Works notified to 3/12/85  
 no sample

SIGNATURE *H. J. Burns* DATE *3/8/85*

- COPY TO
- NREAD
  - UTILITIES DIRECTOR
  - WATER TREATMENT PLANT (GENERAL FOREMAN)
  - BASE PREVENTIVE MEDICINE
  - MCAS PREVENTIVE MEDICINE



**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**  
 MCBCL 11330/8 (REV. 4/78)

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
Potable		K. Hughes / Public Works		12 MAR 85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
1061		Ø			
1049		Ø			
1068		Ø			
1078		Ø			
1039		Ø			
1062		Ø			
1043		Ø			
1080		Ø			
1074		Ø			
1069		Ø			
1082		Ø			
1057		Ø			
1062		Ø			
1063		Ø			
1060		Ø			

REMARKS

10 MAR 85 1540  
 13 MAR 85 0845  
 5006 14 MAR 85 0815 and reported negative.

SIGNATURE

*[Handwritten Signature]*

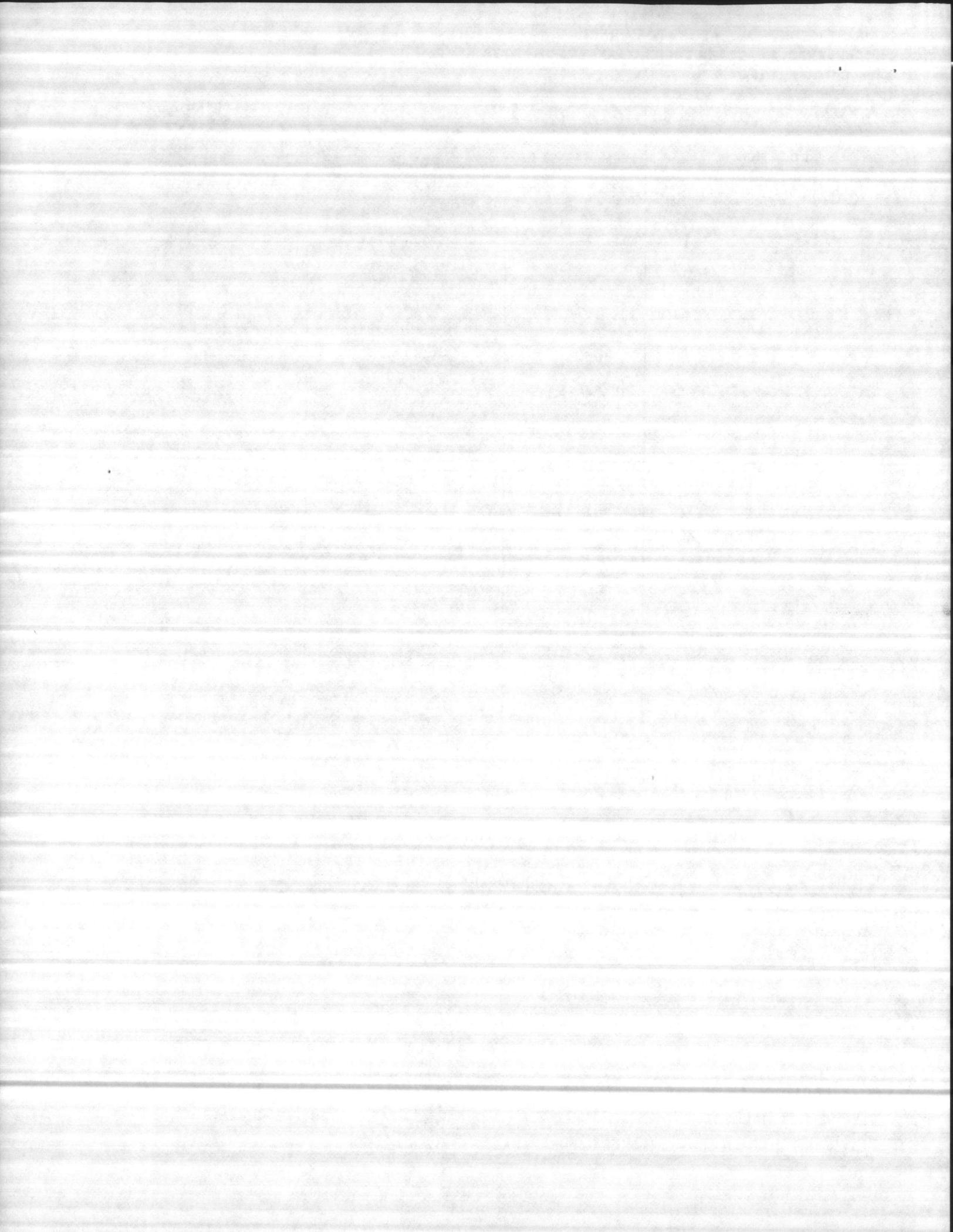
DATE

14 MAR 85

COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- File



**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**

MCBCL 11230/8 (REV. 4/78)

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
Potable		K. Hughes / Public Works		12 MAR 85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
Swamp Creek	1075	Ø			
	1046	Ø			
	1084	Ø			
	1083	Ø			
	1070	Ø			
	1076	Ø			
	1067	Ø			
	1077	Ø			
	1064	Ø			
	1037	Ø			
	1085	Ø			
	1073	Ø			
	1072	Ø			
	1050	Ø			
	1048	Ø			

REMARKS

Col. 12 MAR 85 1540

1 up 13 MAR 85 0845

Col. 5006 14 MAR 85 and reported negative

SIGNATURE

*[Handwritten Signature]*

DATE

14 MAR 85

COPY TO

NREAD

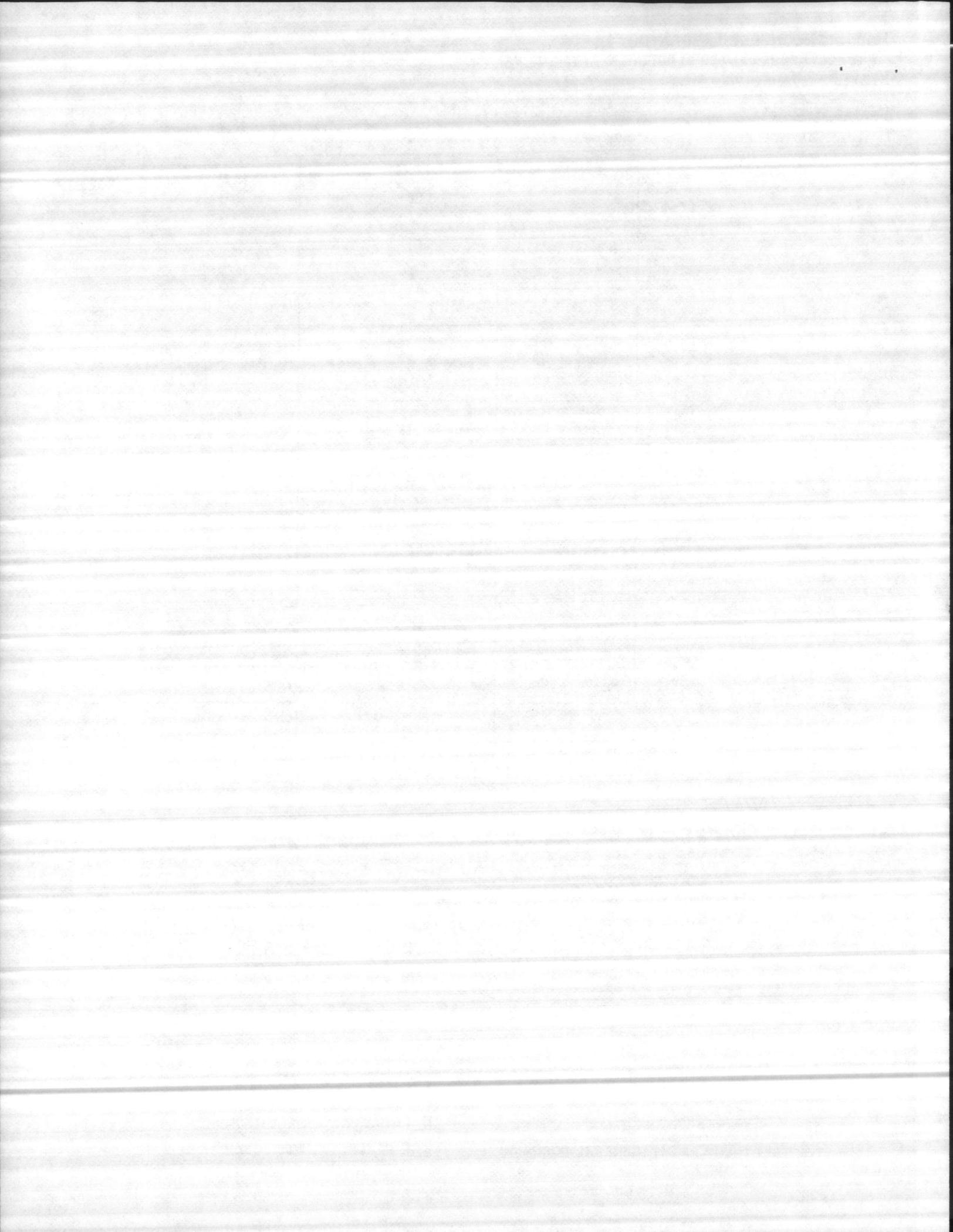
UTILITIES DIRECTOR

WATER TREATMENT PLANT (GENERAL FOREMAN)

BASE PREVENTIVE MEDICINE

MCAS PREVENTIVE MEDICINE

6



**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**

MCBCL 11220/6 (REV. 4/78)

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
Potable		K. Hughes / Public Works		12 MAR 85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
away Park	1055	Ø			
	1036	Ø			
	1058	Ø			
	1052	Ø			
	1032	Ø			
	1030	Ø			
	1057	Ø			
	1079	Ø			
	1071	Ø			
	1051	Ø			
	1054	Ø			
	1053	Ø			
	1031	Ø			
	1034	Ø			
	1028	Ø			
	Resample				

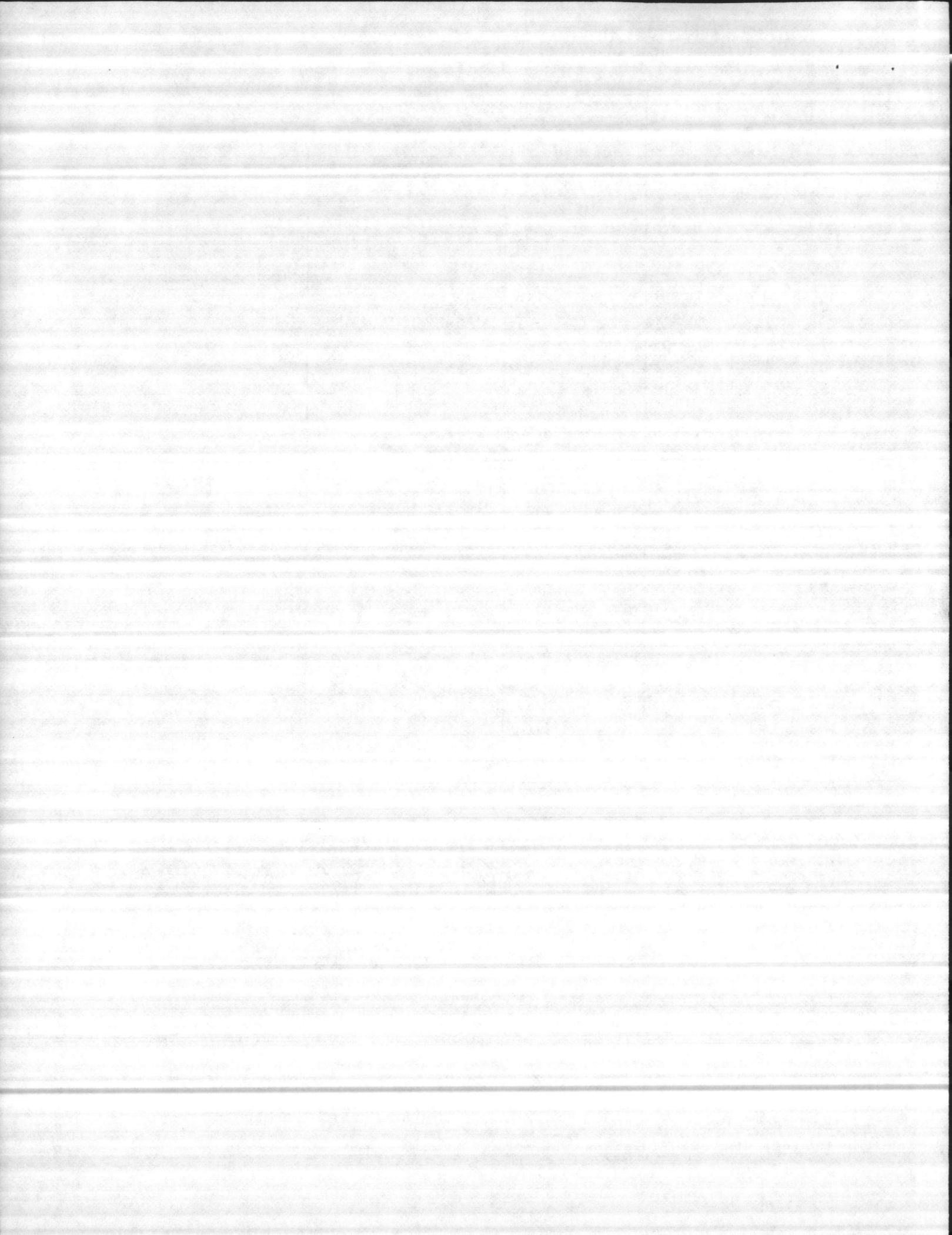
REMARKS

col 12 MAR 85 1540  
 col 13 MAR 85 0815  
 col 5.006 14 MAR 85 0815 and reported negative

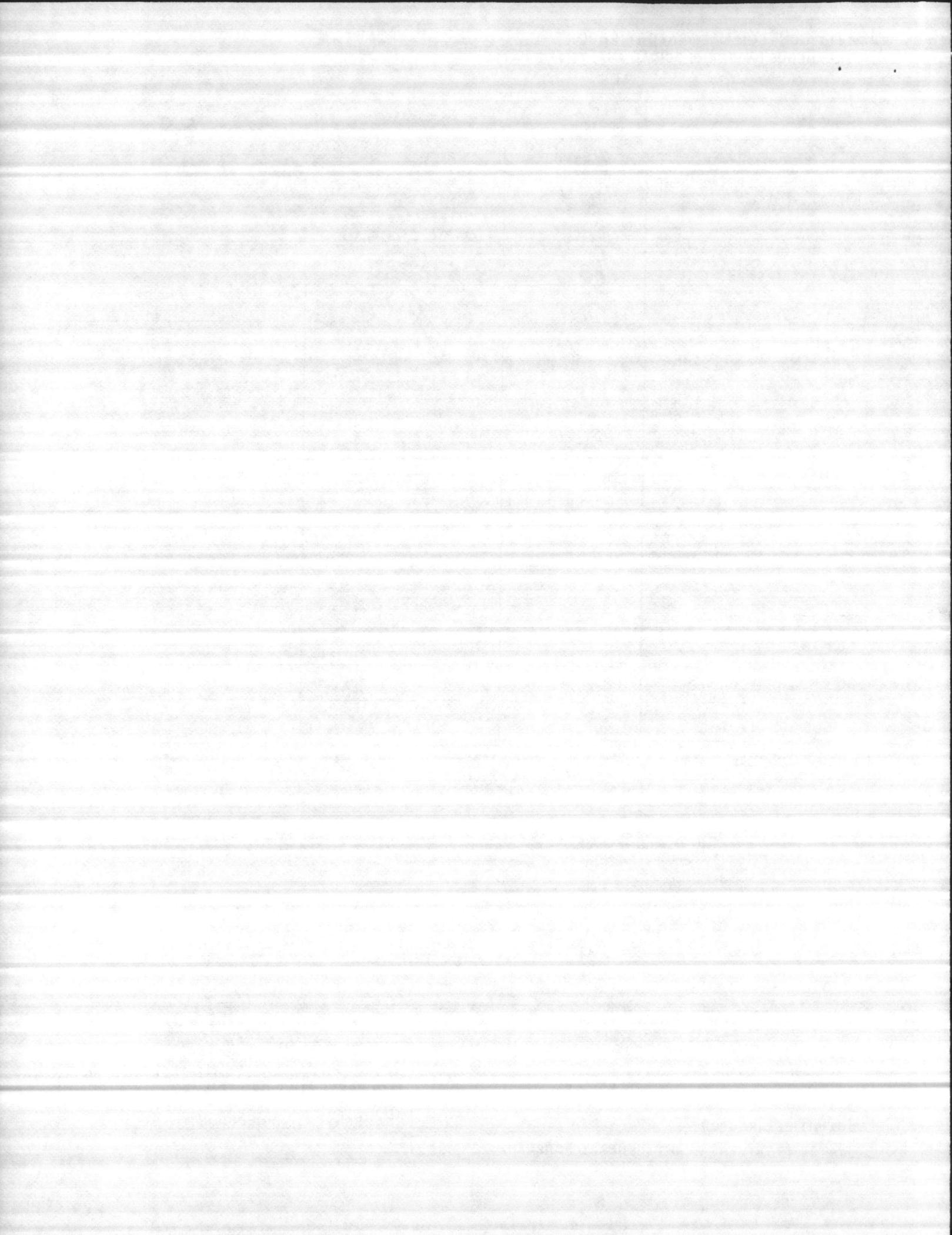
SIGNATURE *[Signature]* DATE 14 MAR 85

COPY TO

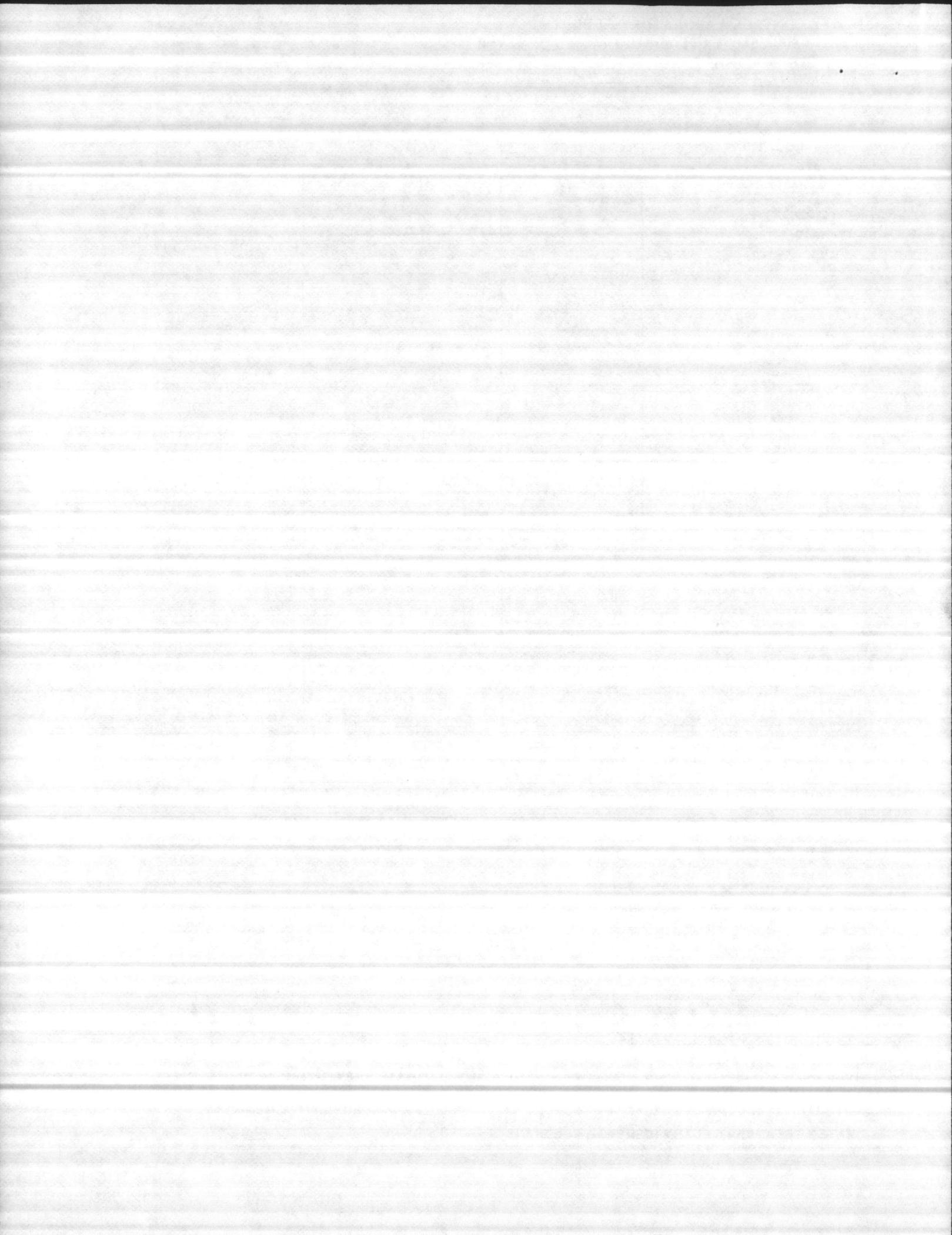
- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)
- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE











**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**

MCBCL 11330/8 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED	
		3/15/85	
LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
POTABLE	KEN HUGHES		
Midway Park	604 Repeat	Ø	
1: = 0.6	605 Repeat	Ø	
	1123	Ø	
	1118	Ø	
	1108	Ø	
	1114	Ø	
	1112	Ø	
	1113	1	
	1117	Ø	
	1180	Ø	
	1111	Ø	
	1113	Ø	
	1121	Ø	
	1116	Ø	
	1109	Ø	

REMARKS

1110 Ø Recn  
 1122 Ø Lab  
 1119 Ø 1130 3/15/85  
 1120 Ø SET UP  
 1102 Ø 1200 3/15/85

Reported to  
 Ken Hughes + Bill Wicks  
 A.T 1000 16 MAR 85

SIGNATURE

*Robert J. Bachell*

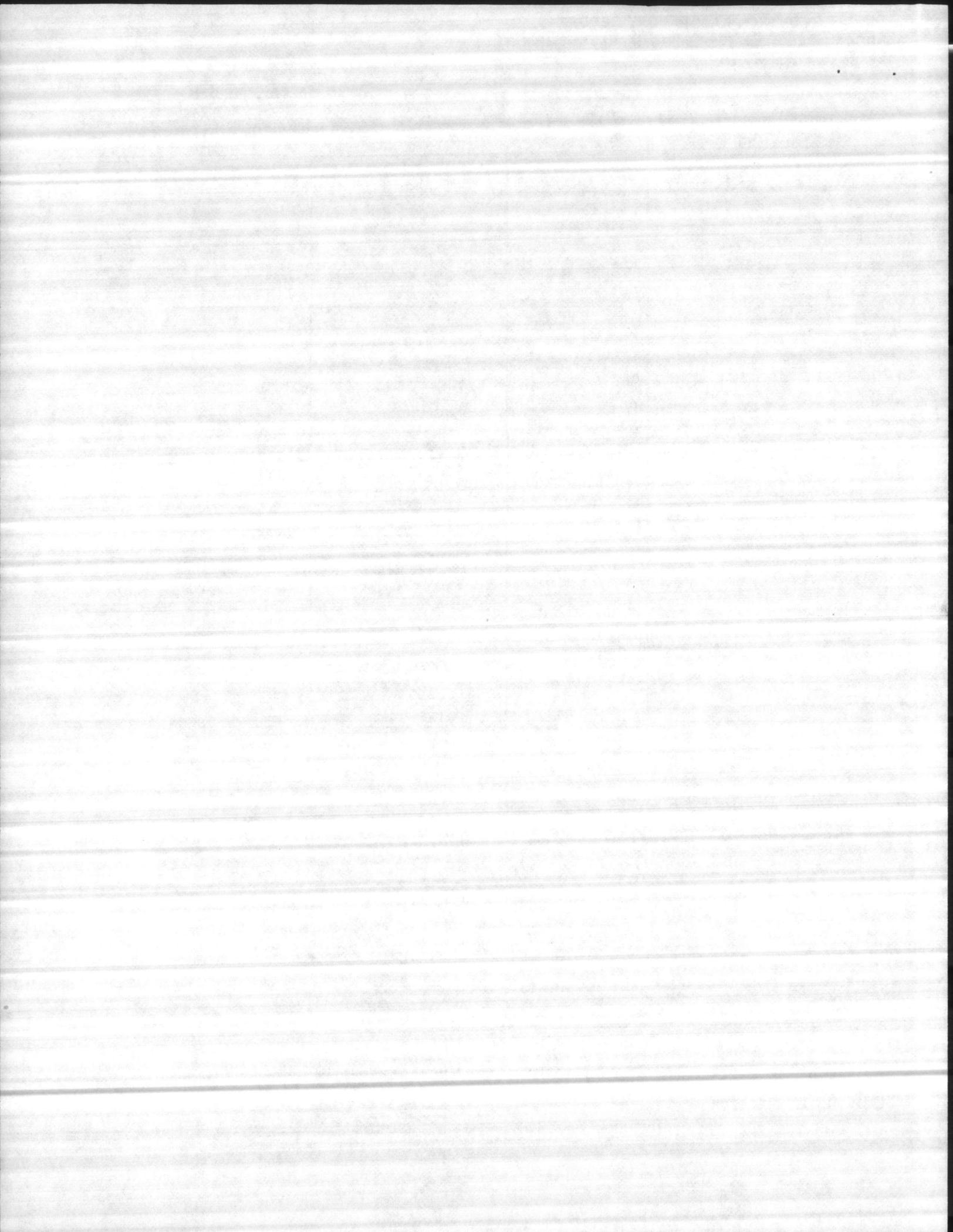
DATE

16 MAR 85

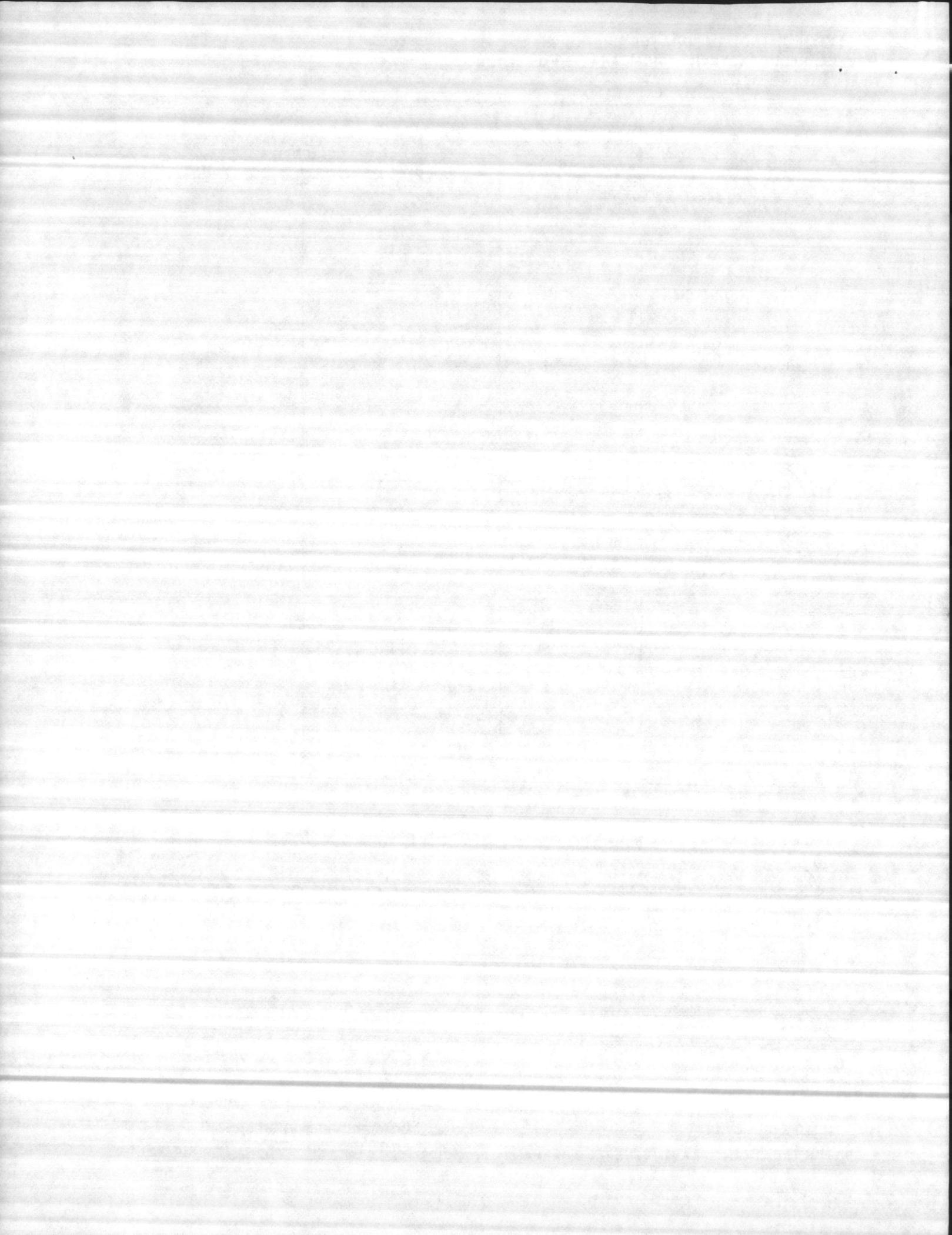
COPY TO

- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

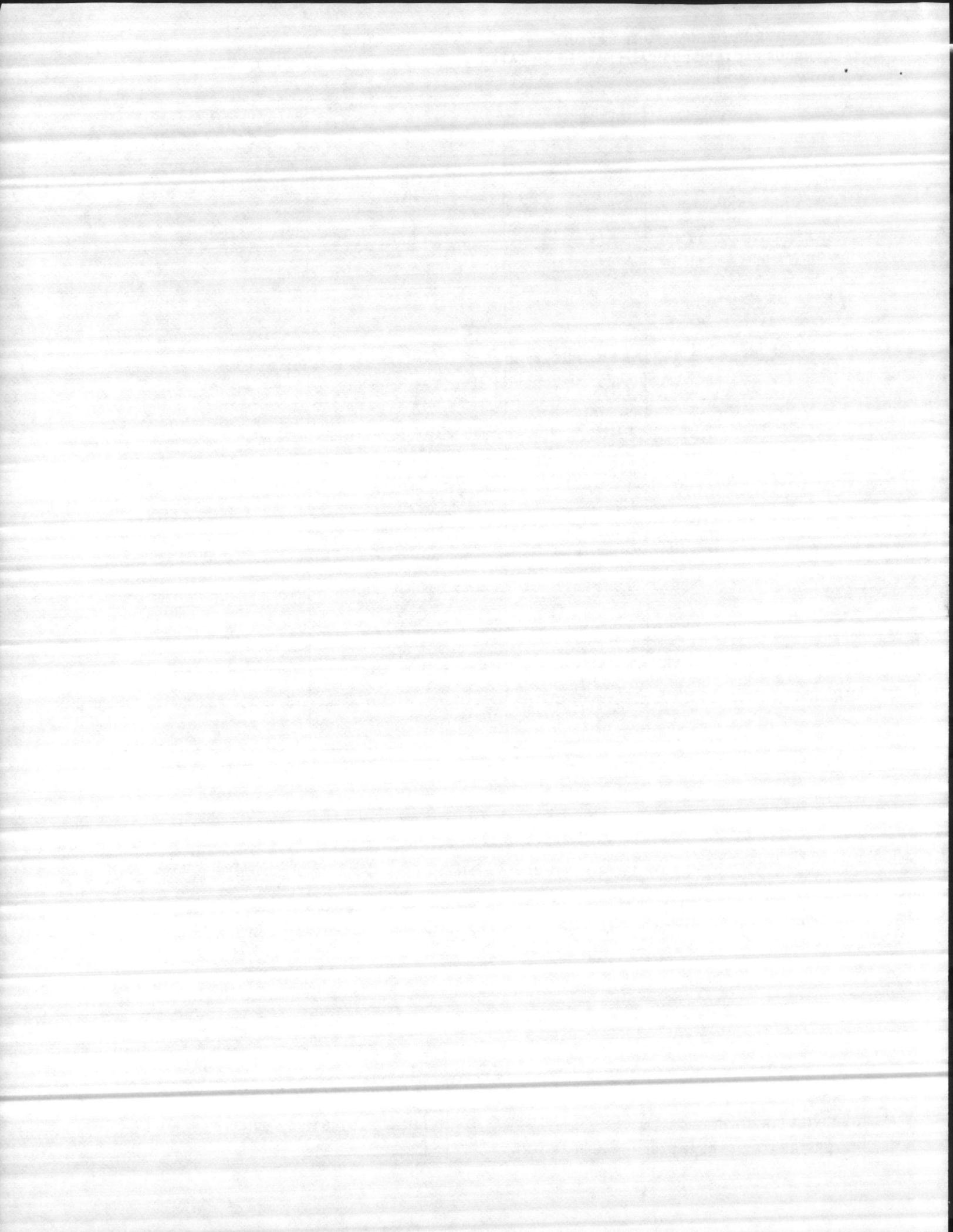
- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- FILE



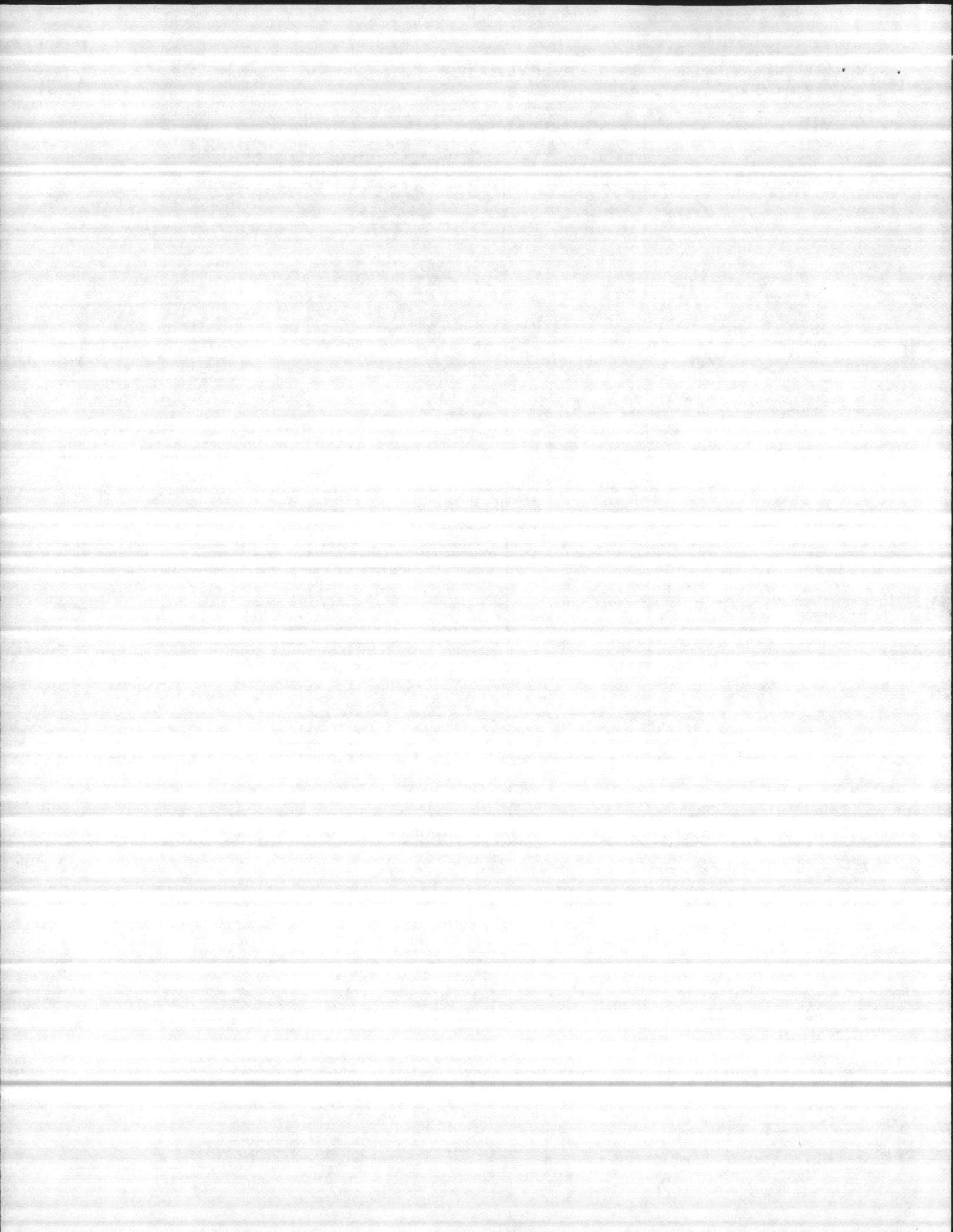




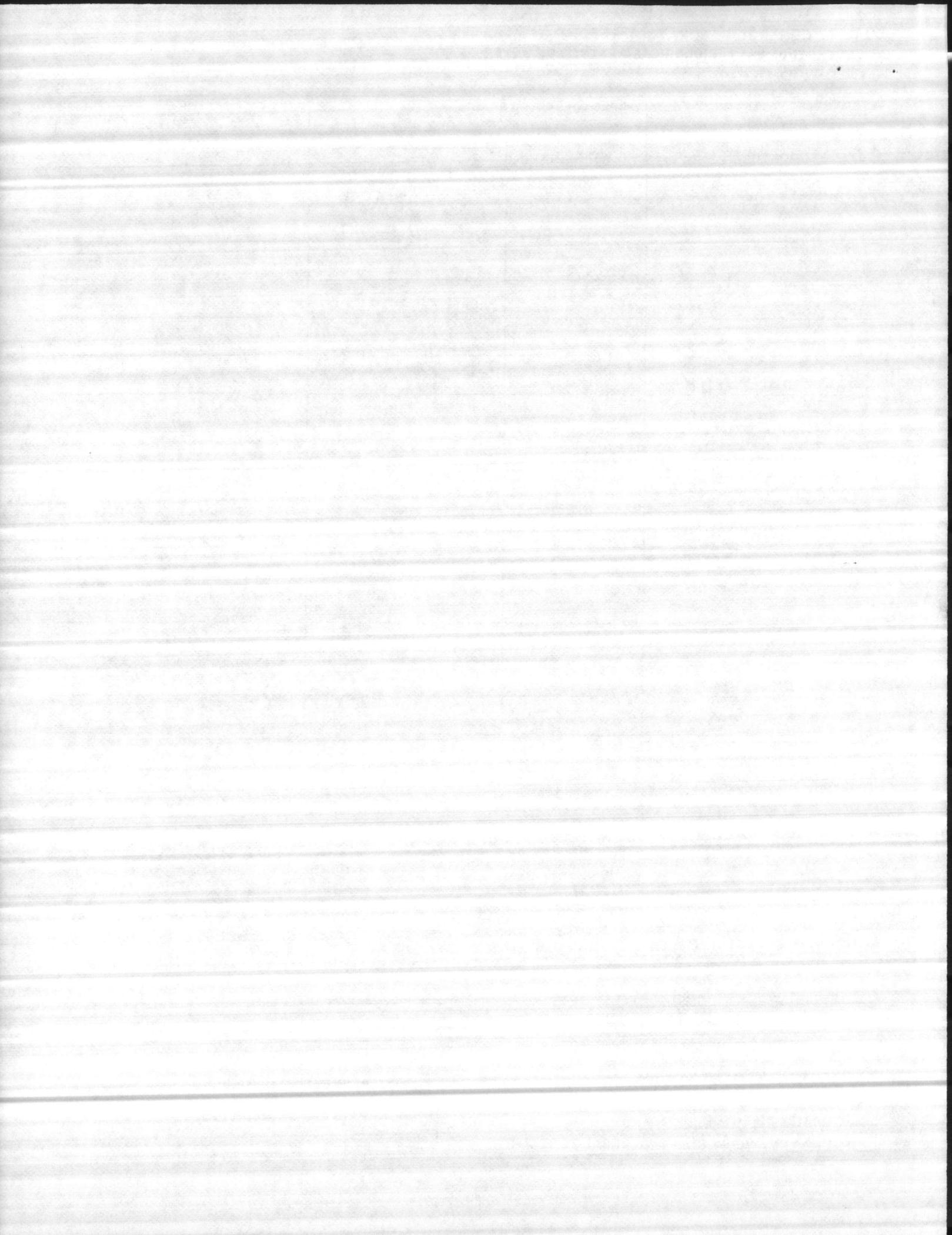












QUALITY CONTROL LABORATORY REPORT  
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11230/8 (REV. 4/78)

File

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
POTABLE		KEN HUGHES		19 MAR 85	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
1136 MIDWAY PARK	CL <sub>2</sub> 0.6	0			
1145	↓	0			
1147		0			
1148		0			
1155		0			
1156		0			
1152		0			
1143		0			
1149		0			
1150		0			
1124		0			

REMARKS

Rec'd Lab 1521, THB

collected 1257-1458 hr, 19 MAR 85

SET UP 1530 19 MAR 85 - B

KEN HUGHES NOTIFIED VERBALLY.

SIGNATURE

H. J. Burns

DATE

20 MAR 85

COPY TO

NREAD

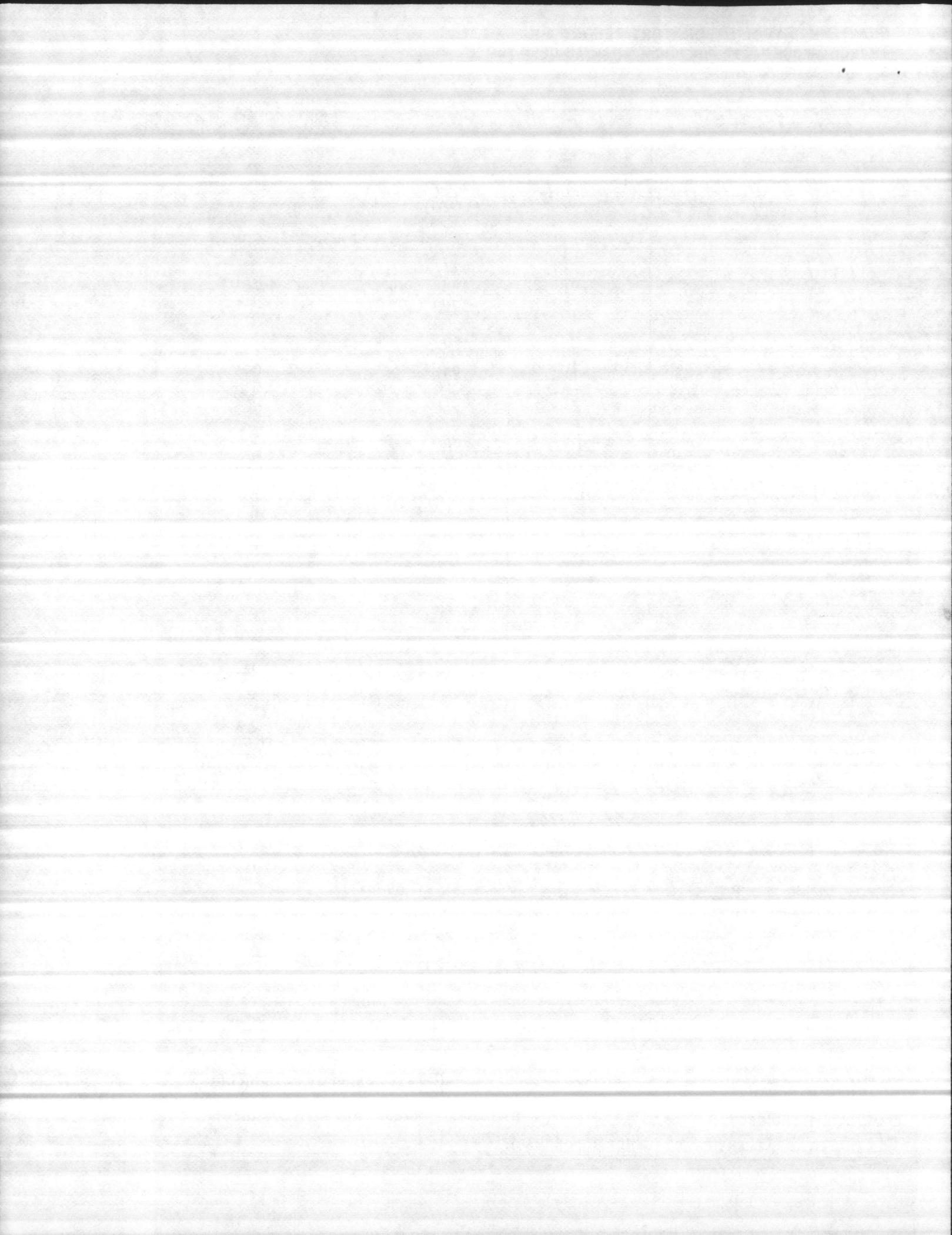
UTILITIES DIRECTOR

WATER TREATMENT PLANT (GENERAL FOREMAN)

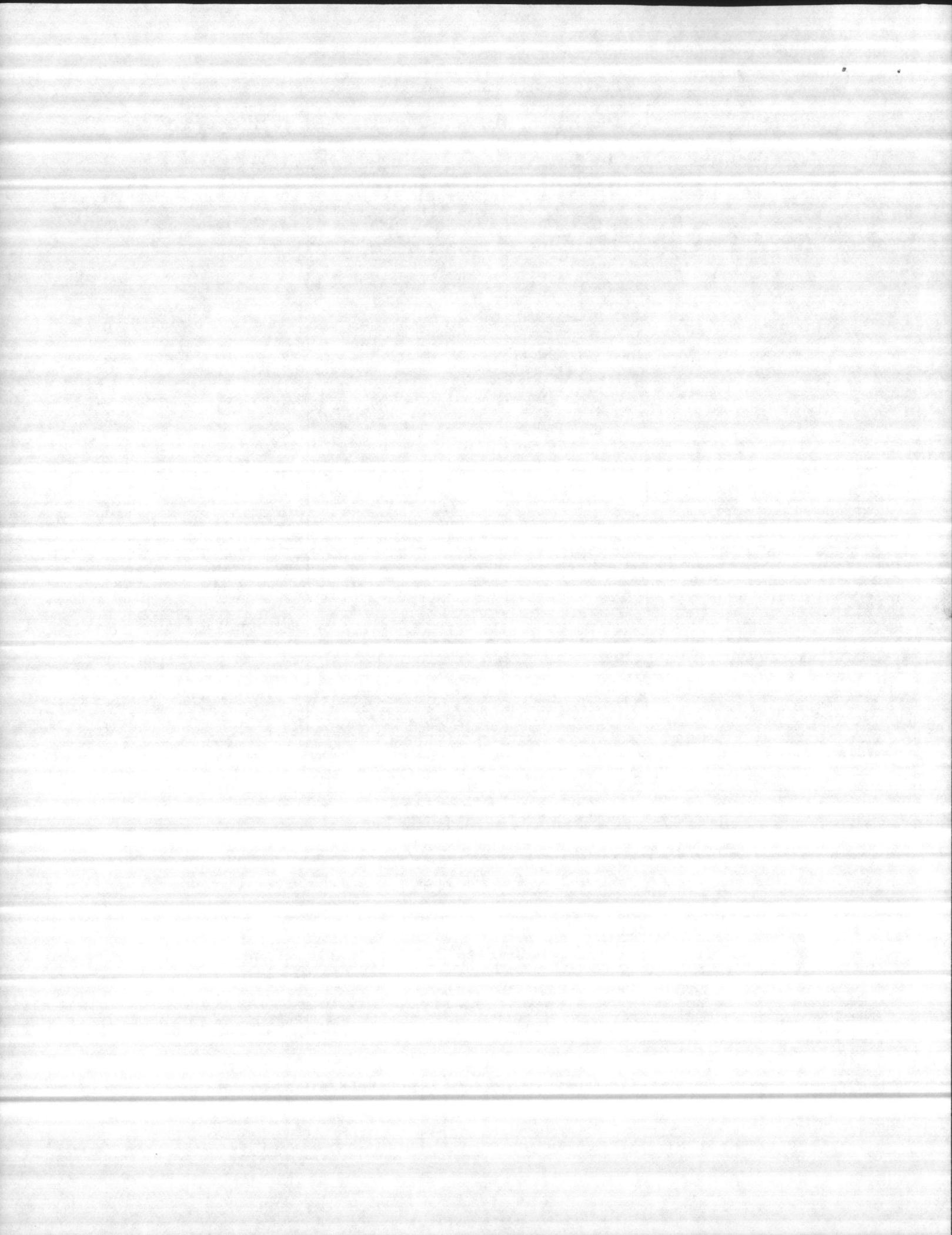
BASE PREVENTIVE MEDICINE

MCAS PREVENTIVE MEDICINE

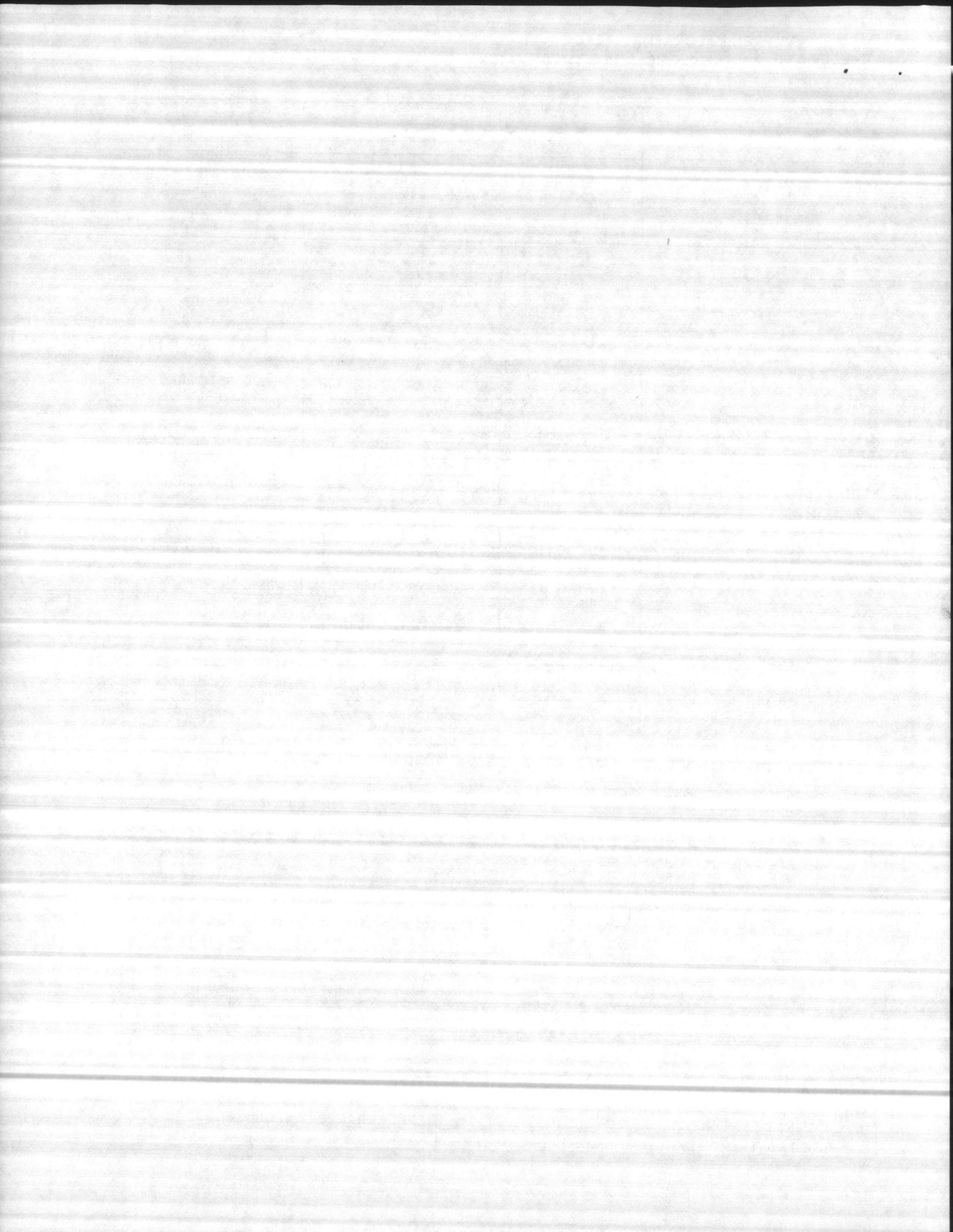
15











QUALITY CONTROL LABORATORY REPORT  
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

*Fhr*

MCBCL 11330/6 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED	
		TOTAL	FECAL
POTABLE	KEN HUONG	3/21/85	
LOCATION	MARKED	COLIFORM	FECAL
Midway Park	1173	0	
Ch 2: 0.2	1177	0	
T. 112 1100-1400	1178	0	
	1171	0	
	1172	2	
	1174	TNTC	
	1164	0	
	1176	0	
	1169	0	
	1169	0	
	1170	0	

REMARKS

Recd 1530 3/21/85  
 Set up 1530 3/21/85

\* NOTE: RESAMPLE 1172 + 1174

Called Gary Horne  
 on 3/22/85

SIGNATURE

*H.J. Burns*

DATE

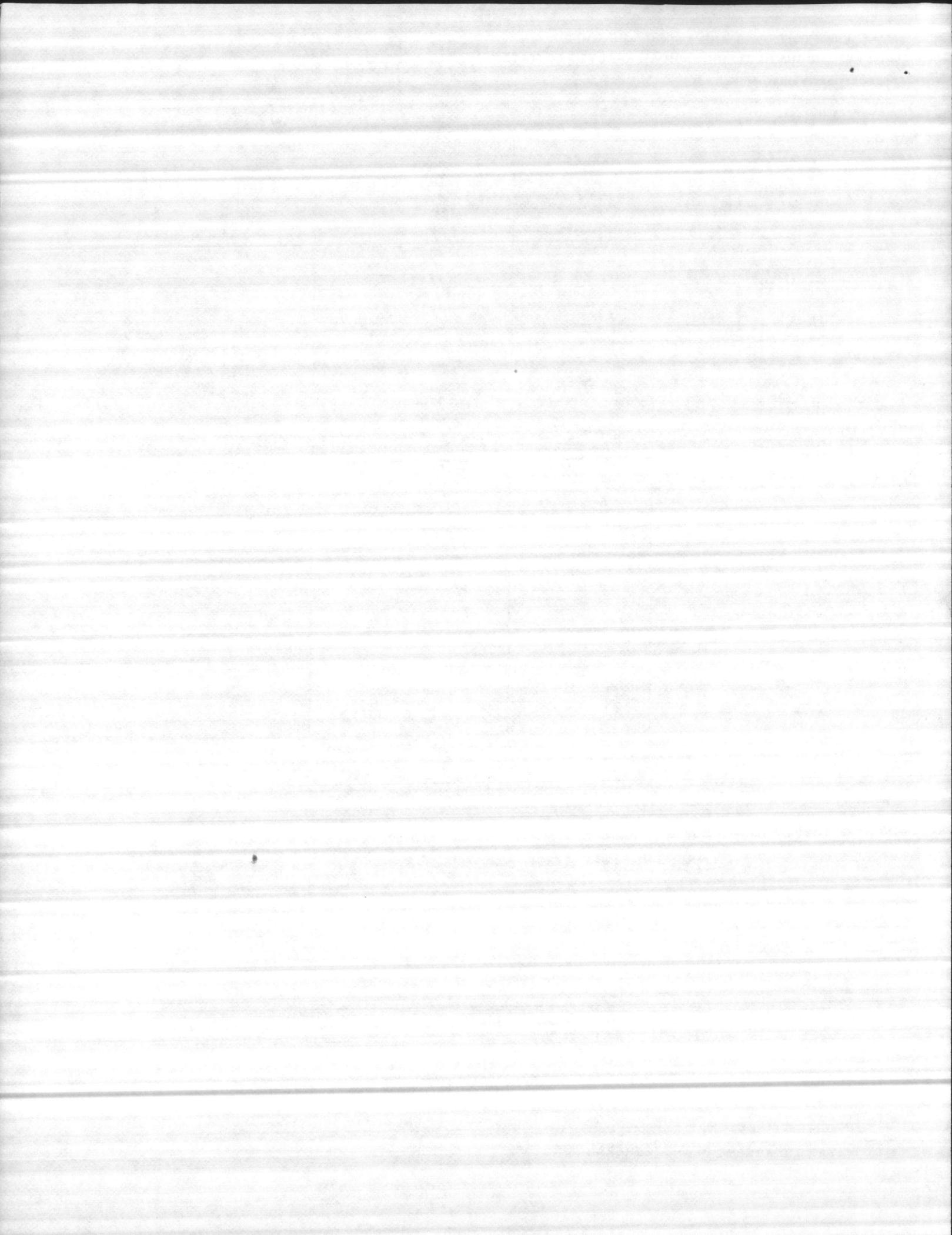
3/22/85

COPY TO

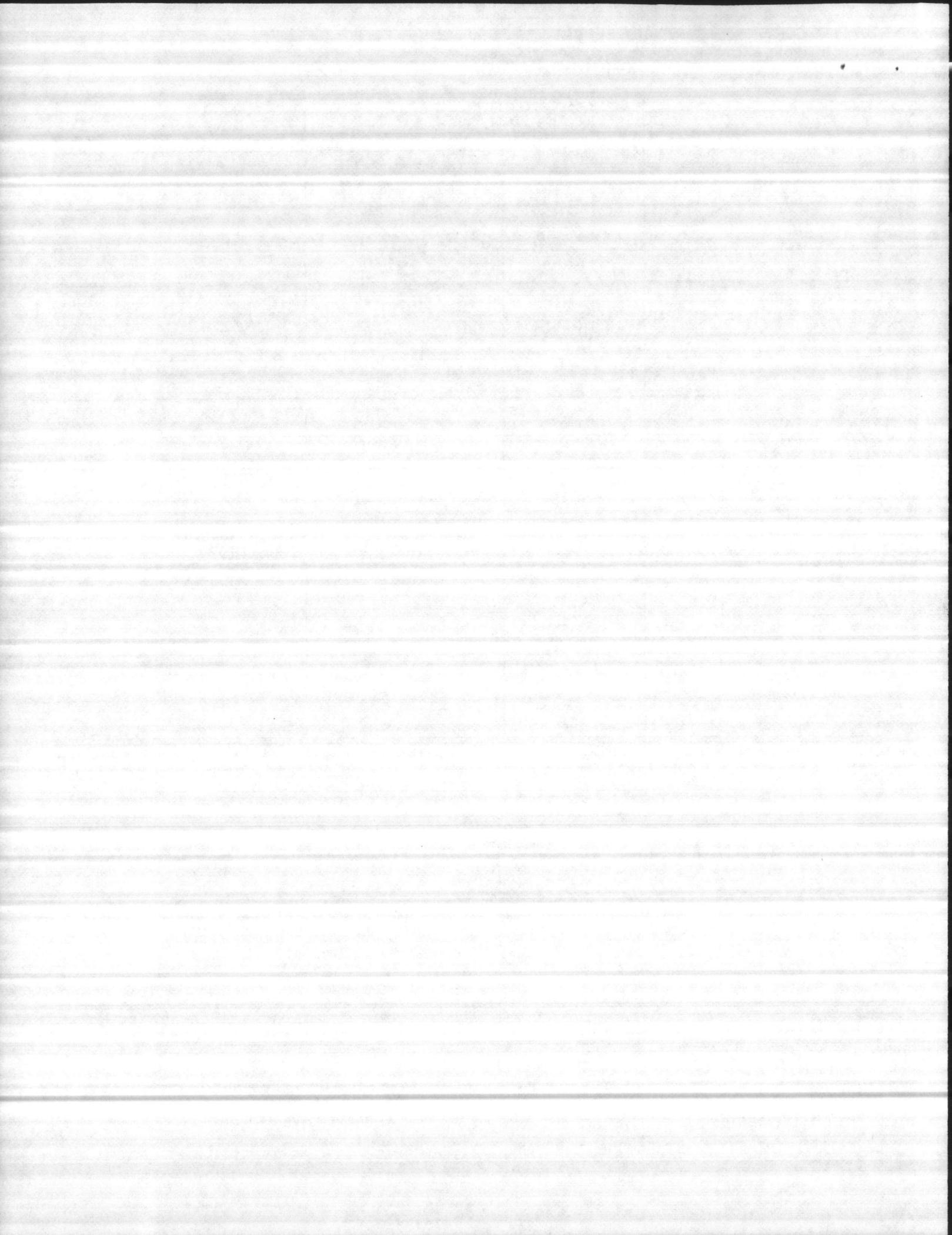
- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE

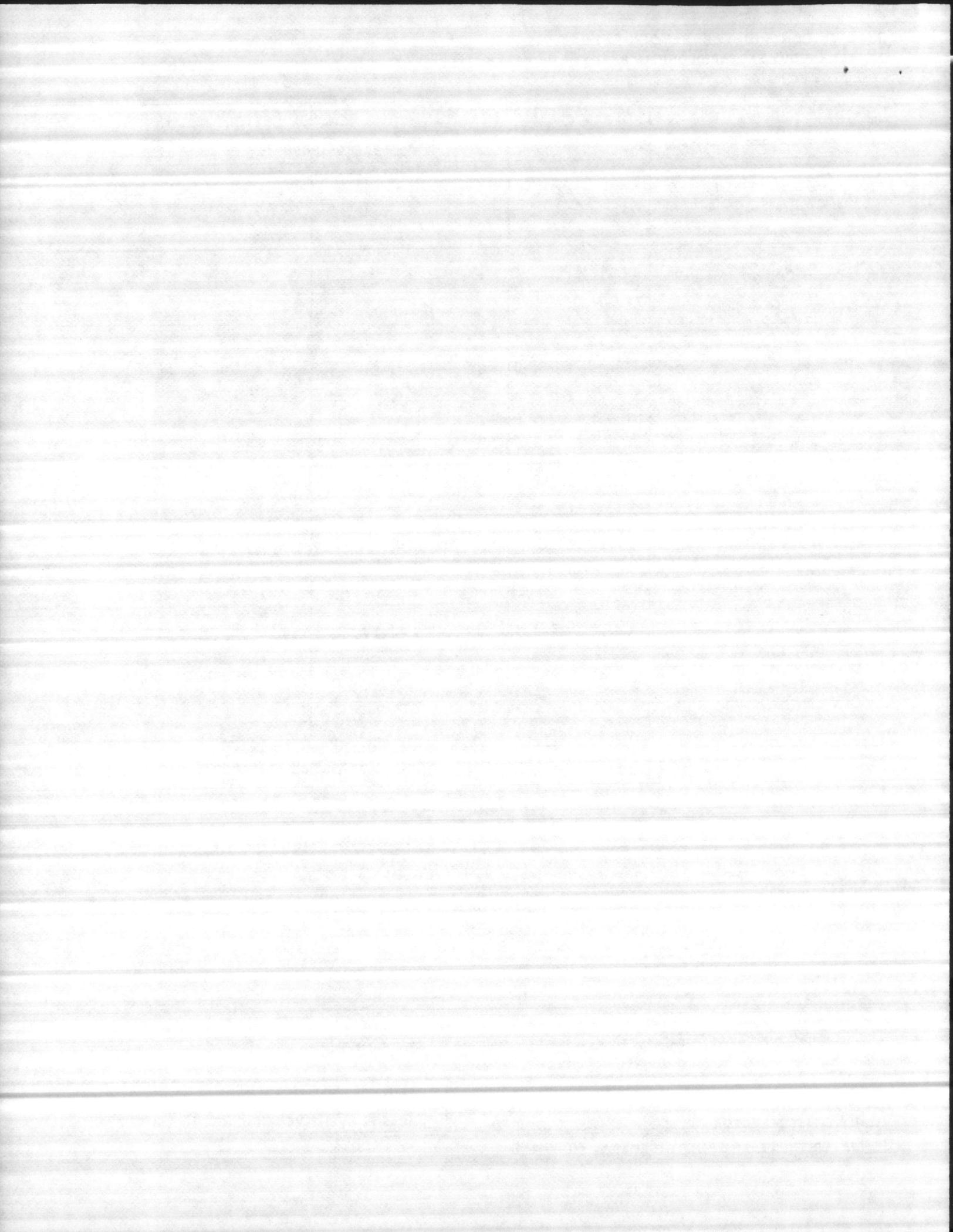
18



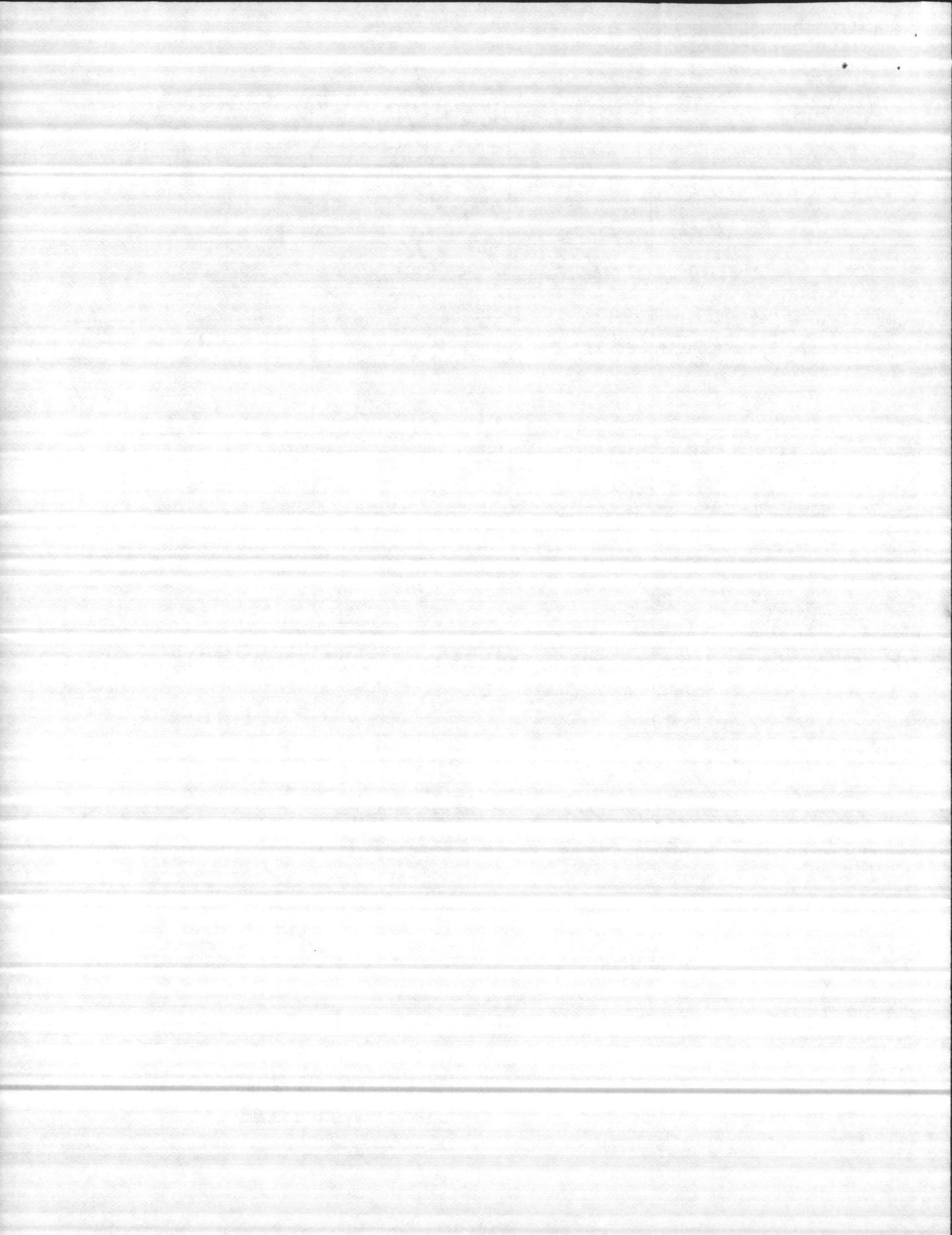




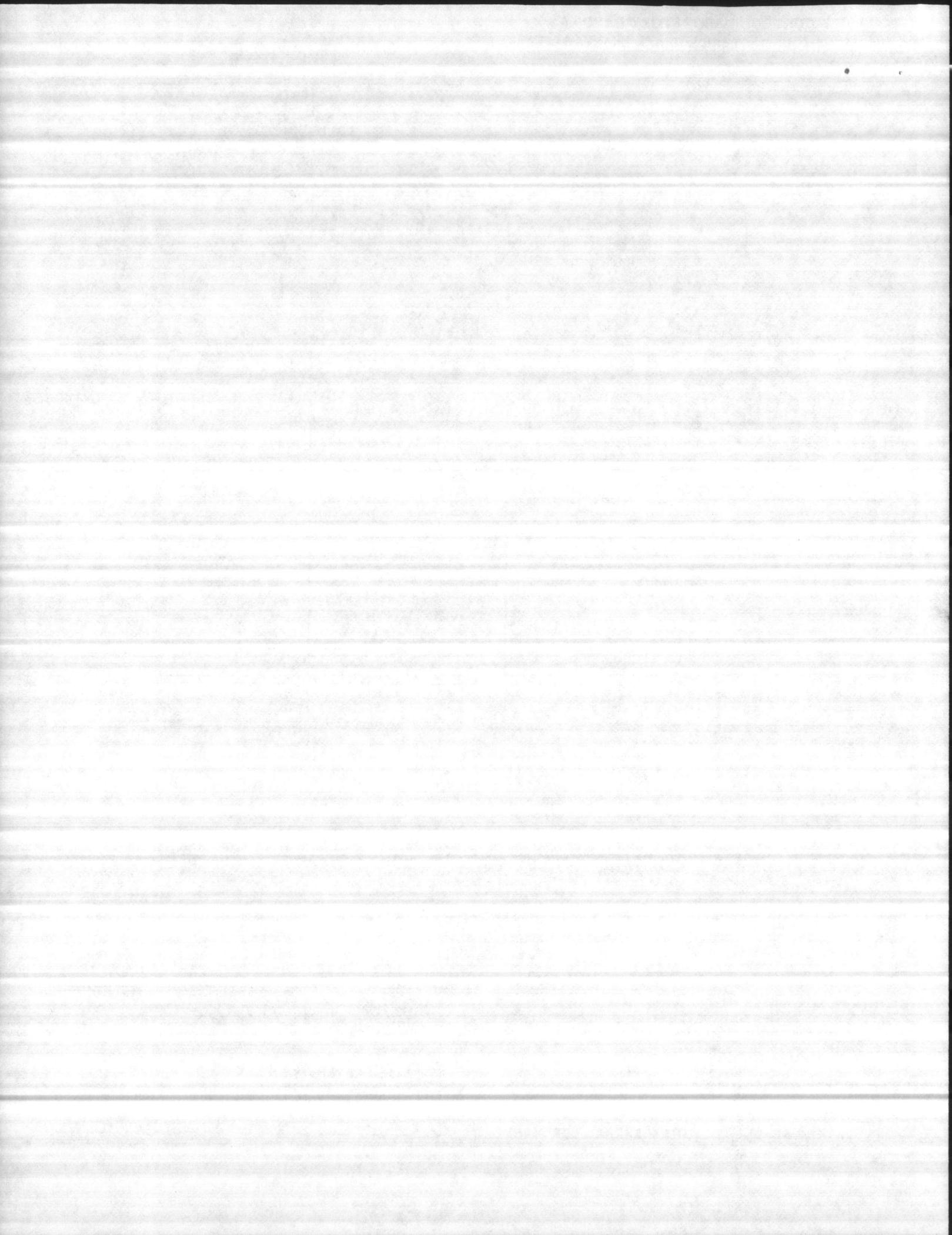




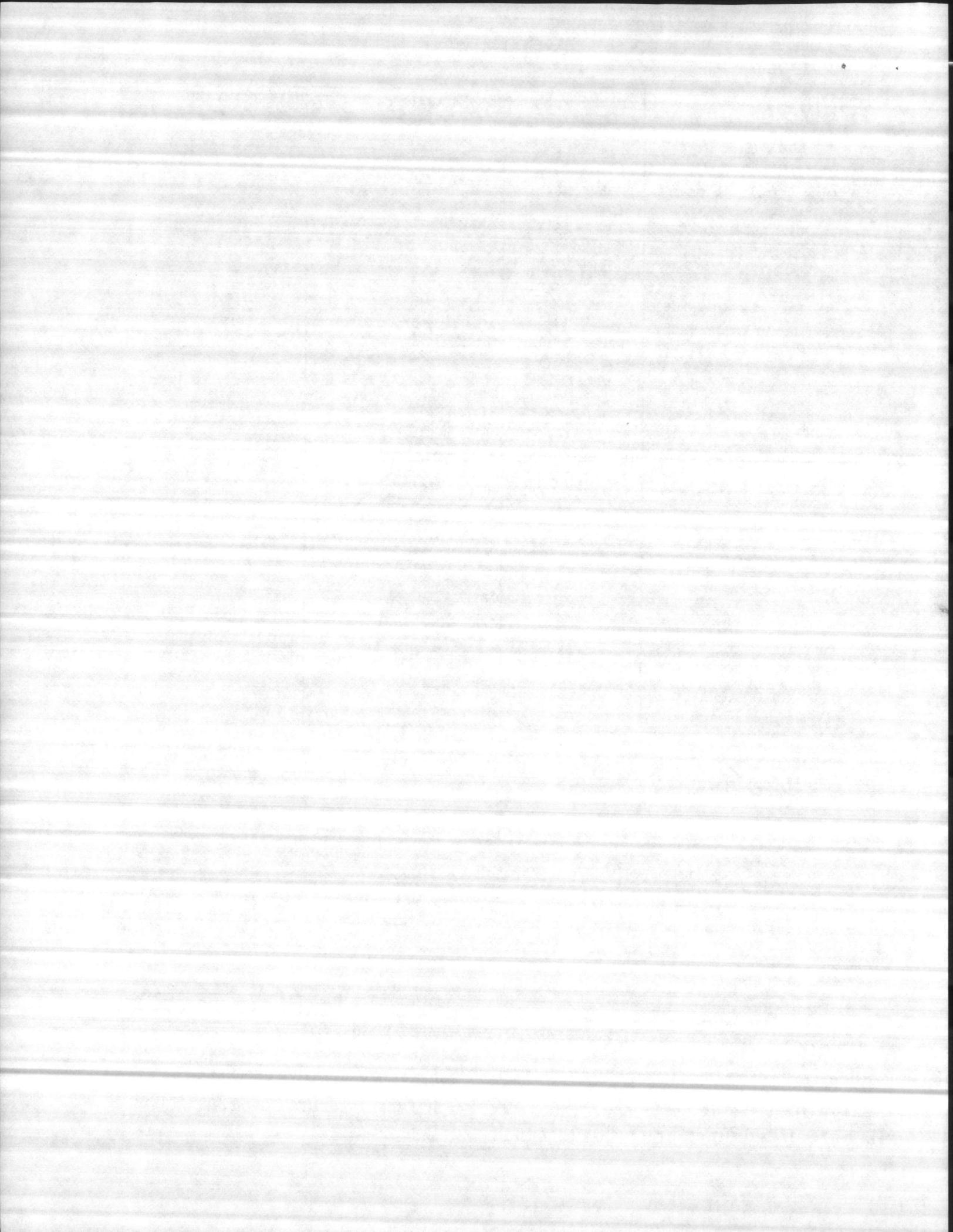












**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**

MCBCL 11330/6 (REV. 4/78)

WATER TYPE		SAMPLE COLLECTED BY		DATE COLLECTED	
Potable		KEN HUGHES		25 MAR 1985	
LOCATION	MARKED	COLIFORM			
		TOTAL	FECAL		
Midway Park 1223	10:21 0.6	∅			
1220	10:12 0.6	∅			
1225	10:39 0.6	∅			
* SAMPLES OF					
Midway Park 1172	10:43 0.6	∅	1		
1168	10:57 0.6	∅			

REMARKS

RECEIVED IN LAB @ 1115 3/25/85 ECR ;  
 ① 2 non-coliform colonies also.

SIGNATURE

*Steven Spengert*

DATE

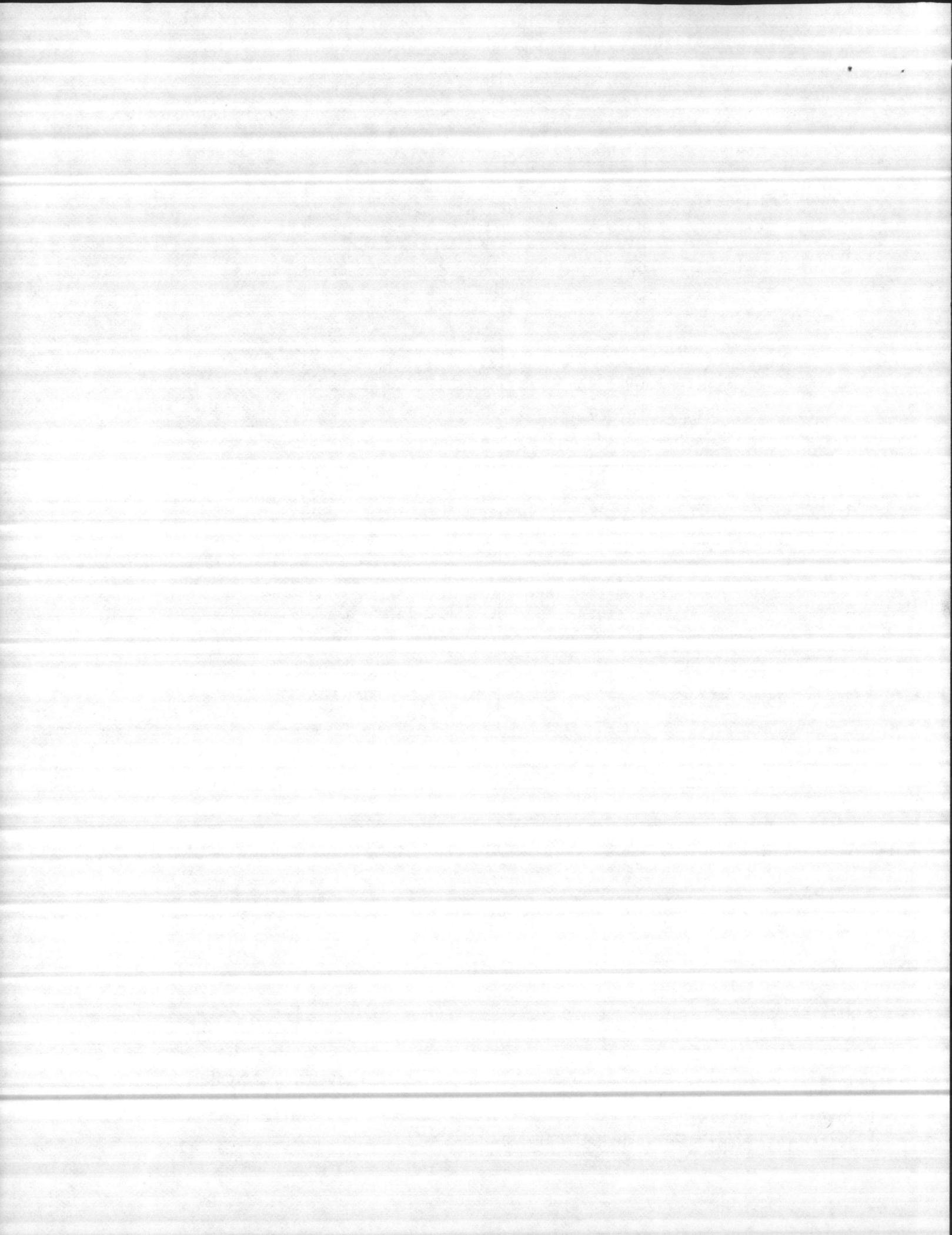
3/26/85

COPY TO

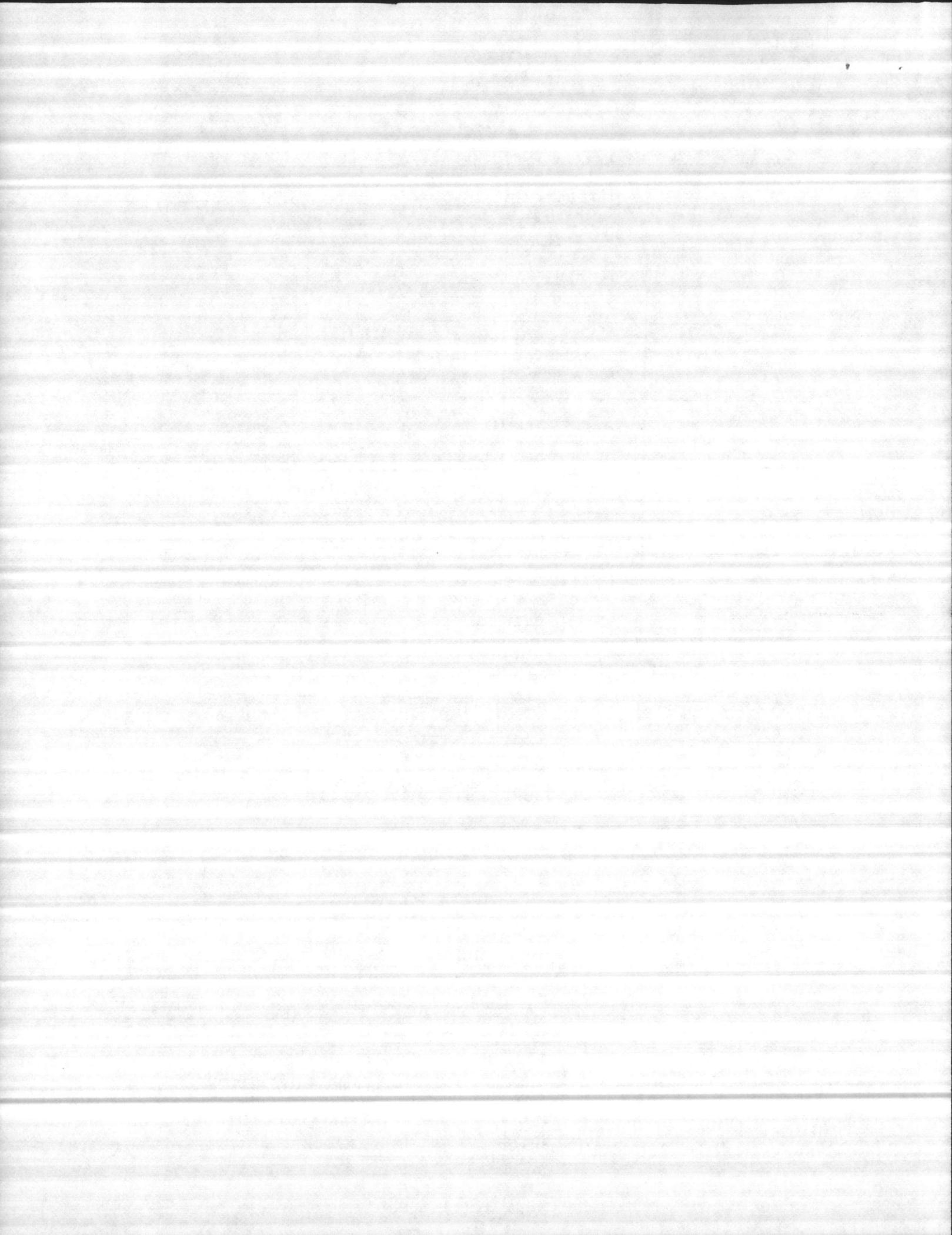
- NREAD
- UTILITIES DIRECTOR
- WATER TREATMENT PLANT (GENERAL FOREMAN)

- BASE PREVENTIVE MEDICINE
- MCAS PREVENTIVE MEDICINE
- File*

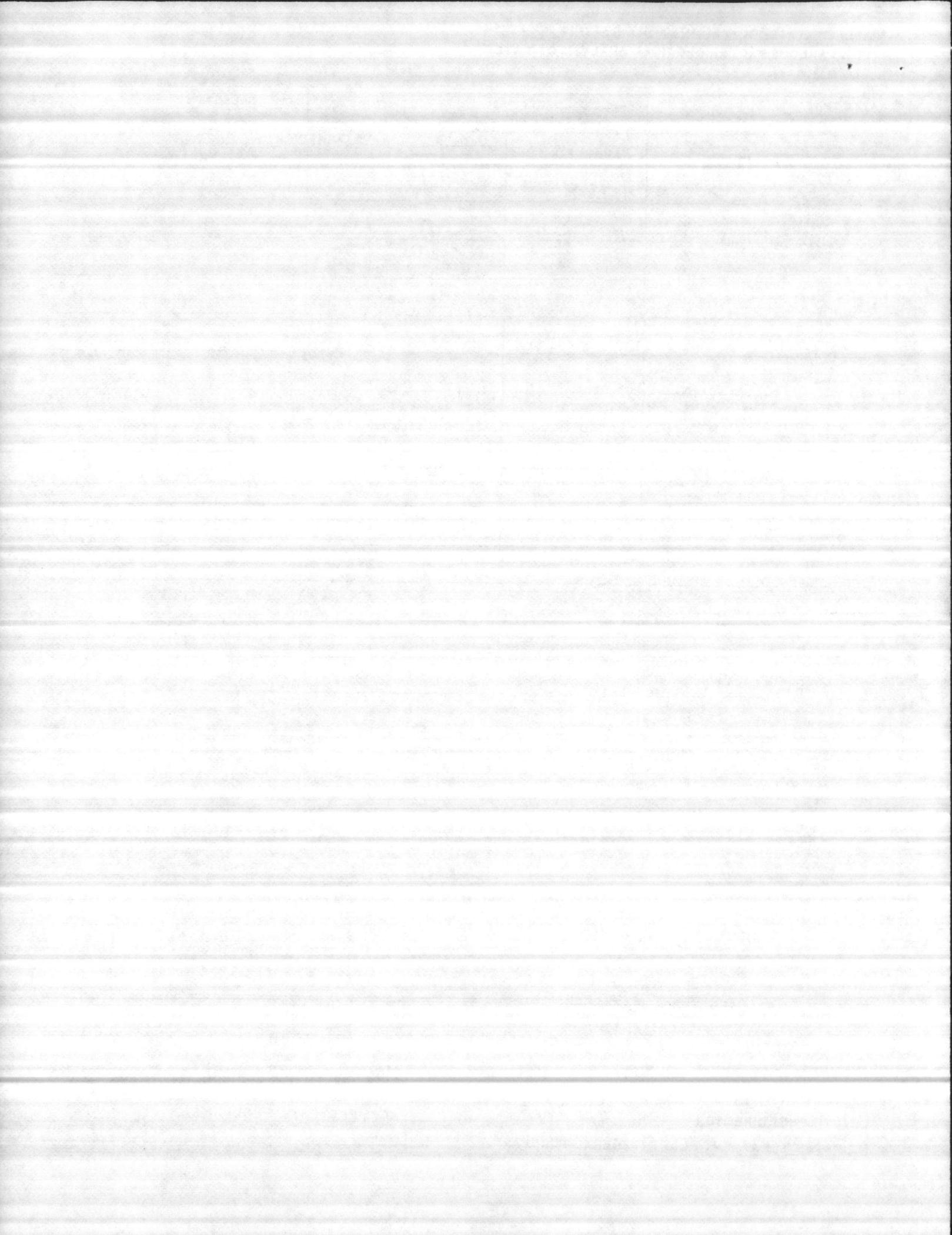
24











**QUALITY CONTROL LABORATORY REPORT**  
**MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER**

*File*

MCBCL 11330/6 (REV. 4/78)

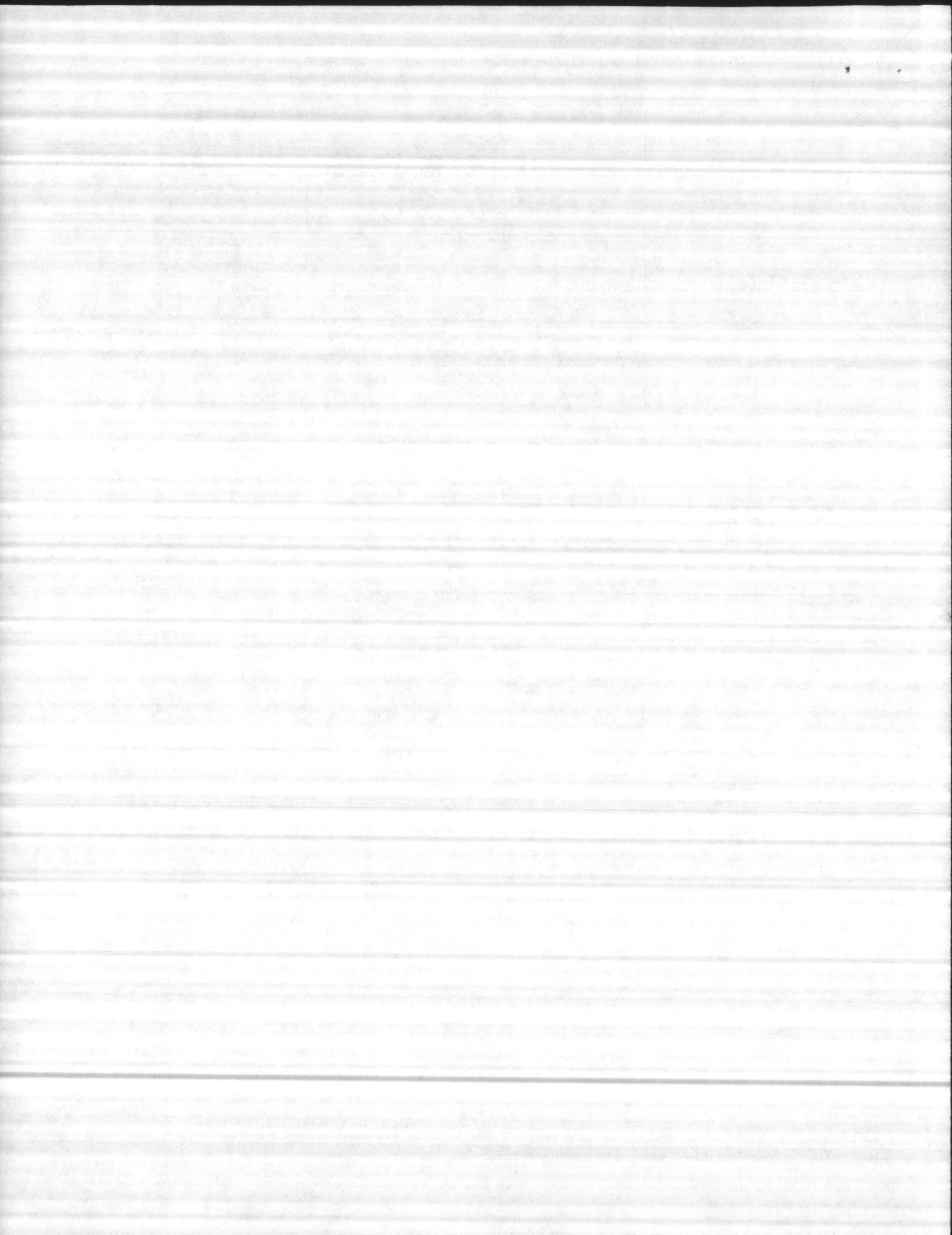
WATER TYPE <i>1207036R</i>	SAMPLE COLLECTED BY <i>Ken Hughes</i>	DATE COLLECTED <i>3/27/85</i>	
		COLIFORM	FECAL
LOCATION	MARKED	TOTAL	FECAL
<i>Midway Park</i>	<i>1102</i>	<i>0</i>	
	<i>1400</i>	<i>0</i>	
<i>Chl = 0.6</i>	<i>1401</i>	<i>0</i>	
<i>Time 1330</i>	<i>1406</i>	<i>0</i>	
	<i>1407</i>	<i>0</i>	
	<i>1408</i>	<i>0</i>	
	<i>1409</i>	<i>0</i>	
	<i>1410</i>	<i>0</i>	
	<i>1411</i>	<i>0</i>	
	<i>1417</i>	<i>0</i>	
	<i>1135</i>	<i>0</i>	

REMARKS  
*Rec'd LAB 1530 3/27/85*  
*Set up 1000 3/28/85*

*KEN HUGHES NOTIFIED VERBALLY*

SIGNATURE *H. J. Burns* DATE *3/29/85*

- COPY TO
- NREAD
  - UTILITIES DIRECTOR
  - WATER TREATMENT PLANT (GENERAL FOREMAN)
  - BASE PREVENTIVE MEDICINE
  - MCAS PREVENTIVE MEDICINE



QUALITY CONTROL LABORATORY REPORT  
 MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/6 (REV. 4/78)

*File*

WATER TYPE	SAMPLE COLLECTED BY		DATE COLLECTED	
	LOCATION	MARKED	TOTAL	FECAL
POTABLE	KEN HUGHES		3/28/85	
			COLIFORM	
MIDWAY PAK	1412		0	
L: 0.4	1414		0	
TIME 13.30	1416		0	
	1421		0	
	1423		0	
	1424		0	
	1425		0	
	1426		0	
	1427		0	
	1430		0	
	1431		0	
L: 0.4 *	1428		0	
TIME 14.30 *	1429		0	

REMARKS  
 REC'D LAB 13.30 3-28-85  
 SET UP 13.45 3-28-85

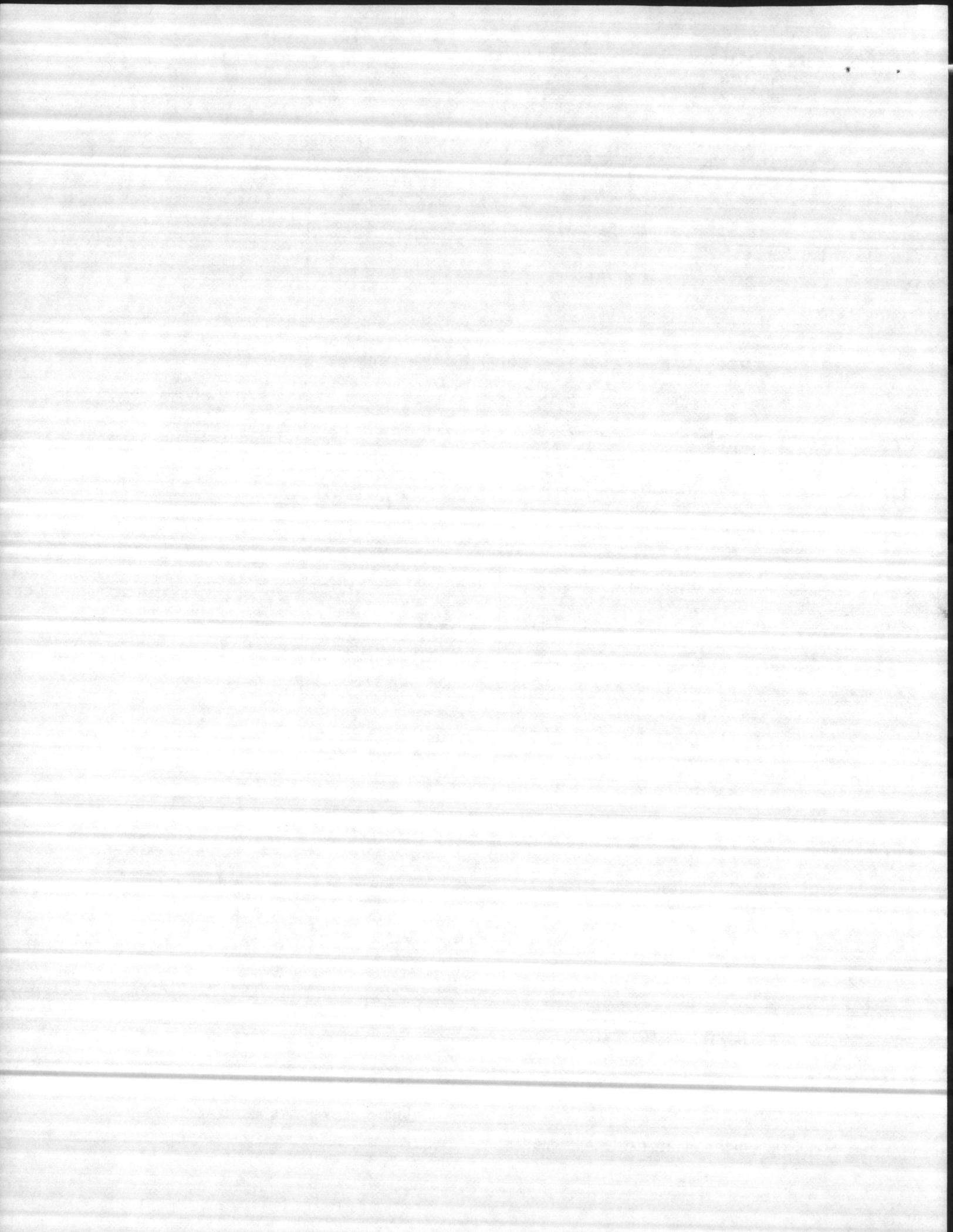
\* REC'D LAB 13.30 3-28-85  
 SET UP 13.35 3-28-85

KEN HUGHES NOTIFIED VERBALLY

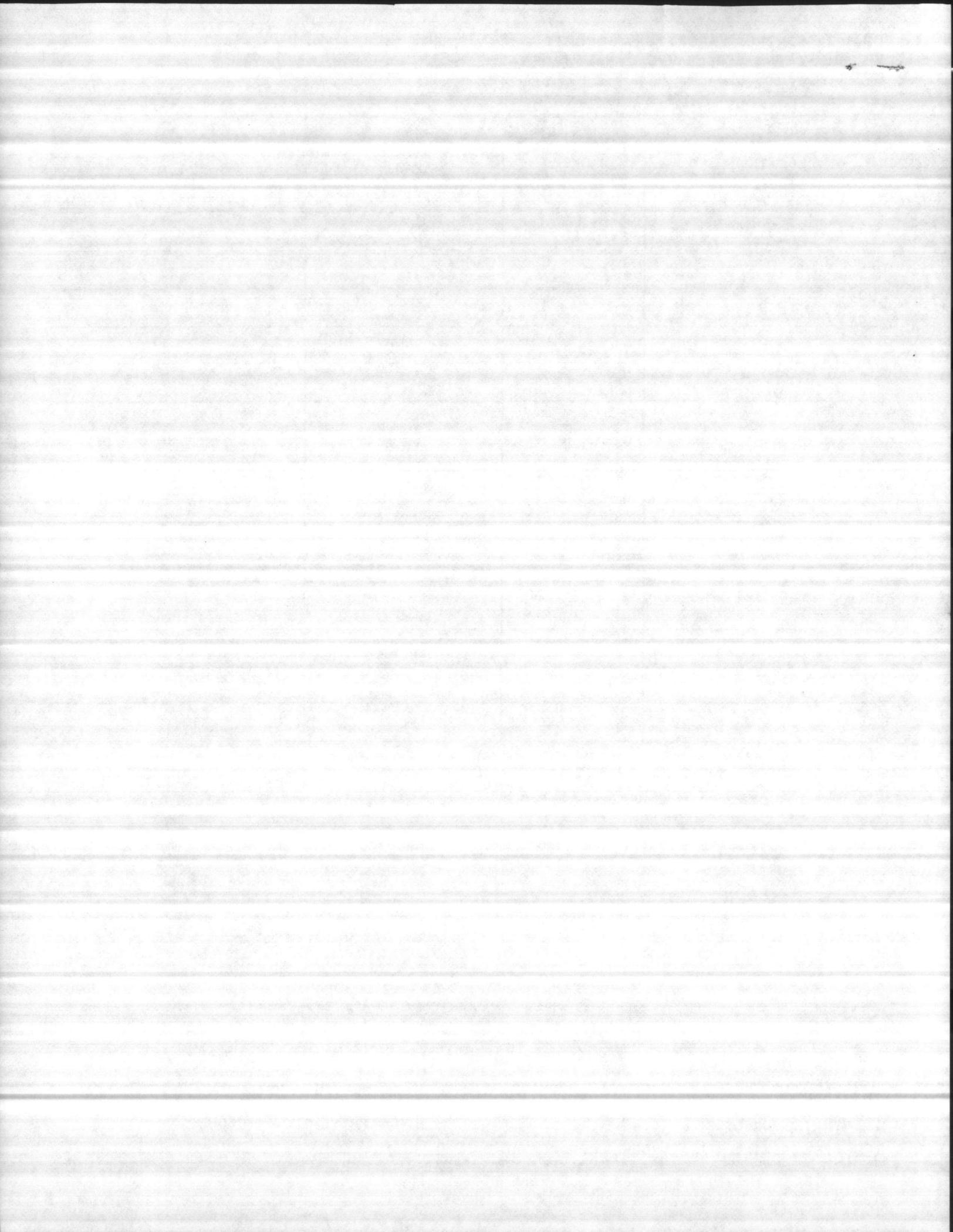
SIGNATURE *B. J. Beane* DATE 3-29-85

- COPY TO
- NREAD
  - UTILITIES DIRECTOR
  - WATER TREATMENT PLANT (GENERAL FOREMAN)
  - BASE PREVENTIVE MEDICINE
  - MCAS PREVENTIVE MEDICINE

28







CHEMICAL ANALYSIS — WATER TREATMENT PLANTS  
 MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

1 APR 85

DATE OF ANALYSIS

1 APR 85

PARAMETER	<del>HADNOT</del> POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.7									
PHENOLTHALEIN ALKALINITY	4									
METHYL ORANGE ALKALINITY	40									
CARBONATES AS CaCO <sub>3</sub>	8									
BICARBONATES AS CaCO <sub>3</sub>	32									
CHLORIDES AS Cl	12									
HARDNESS AS CaCO <sub>3</sub>	64									
IRON AS Fe	—									
FLUORIDE	1.07									
CHLORINE RESIDUAL										
TURBIDITY	0.60									
TOTAL PHOSPHATE	—									
ORTHO PHOSPHATE	—									
META PHOSPHATE	—									
STABILITY	—									

REMARKS

COPY TO:

UTIL DIR  \_\_\_\_\_

WATER TREATMENT

PMU  MCAS PMU

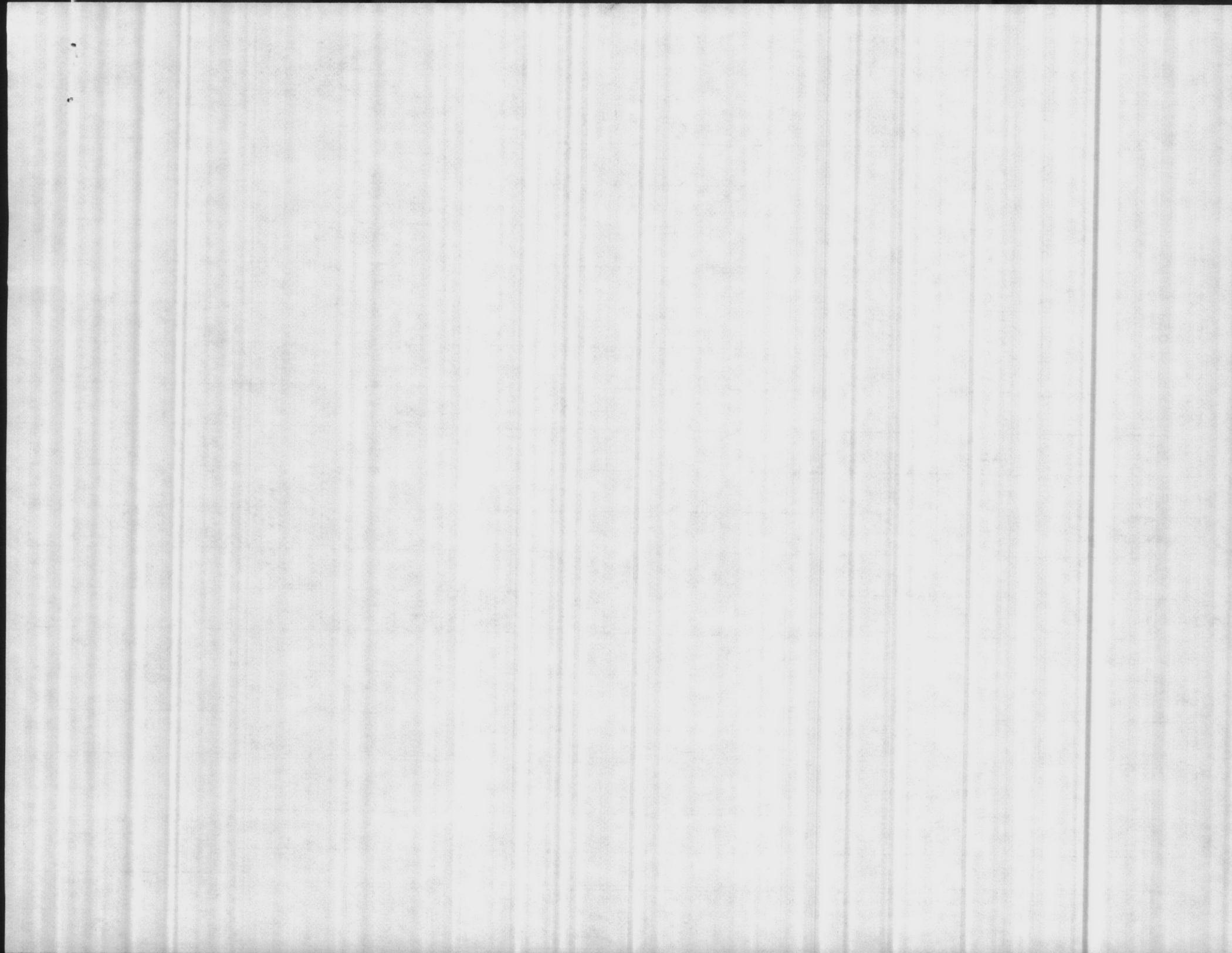
NREAD  FILE

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

*Barbee*

ENCLOSURE (6)



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS  
 MCBCL 11330/3 (REV. 6-84)

TT 2410

DATE COLLECTED

3/1/85

DATE OF ANALYSIS

3/1/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH			9.1							
PHENOLTHALEIN ALKALINITY			12							
METHYL ORANGE ALKALINITY			36							
CARBONATES AS CaCO <sub>3</sub>			24							
BICARBONATES AS CaCO <sub>3</sub>			12							
CHLORIDES AS Cl			10							
HARDNESS AS CaCO <sub>3</sub>			76							
IRON AS Fe										
FLUORIDE			0.89							
CHLORINE RESIDUAL			0.9							
TURBIDITY			0.4							
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

REMARKS

Reported results to Larry Hill by phone on 3/1/85 at 1320.

COPY TO:

UTIL DIR

WATER TREATMENT

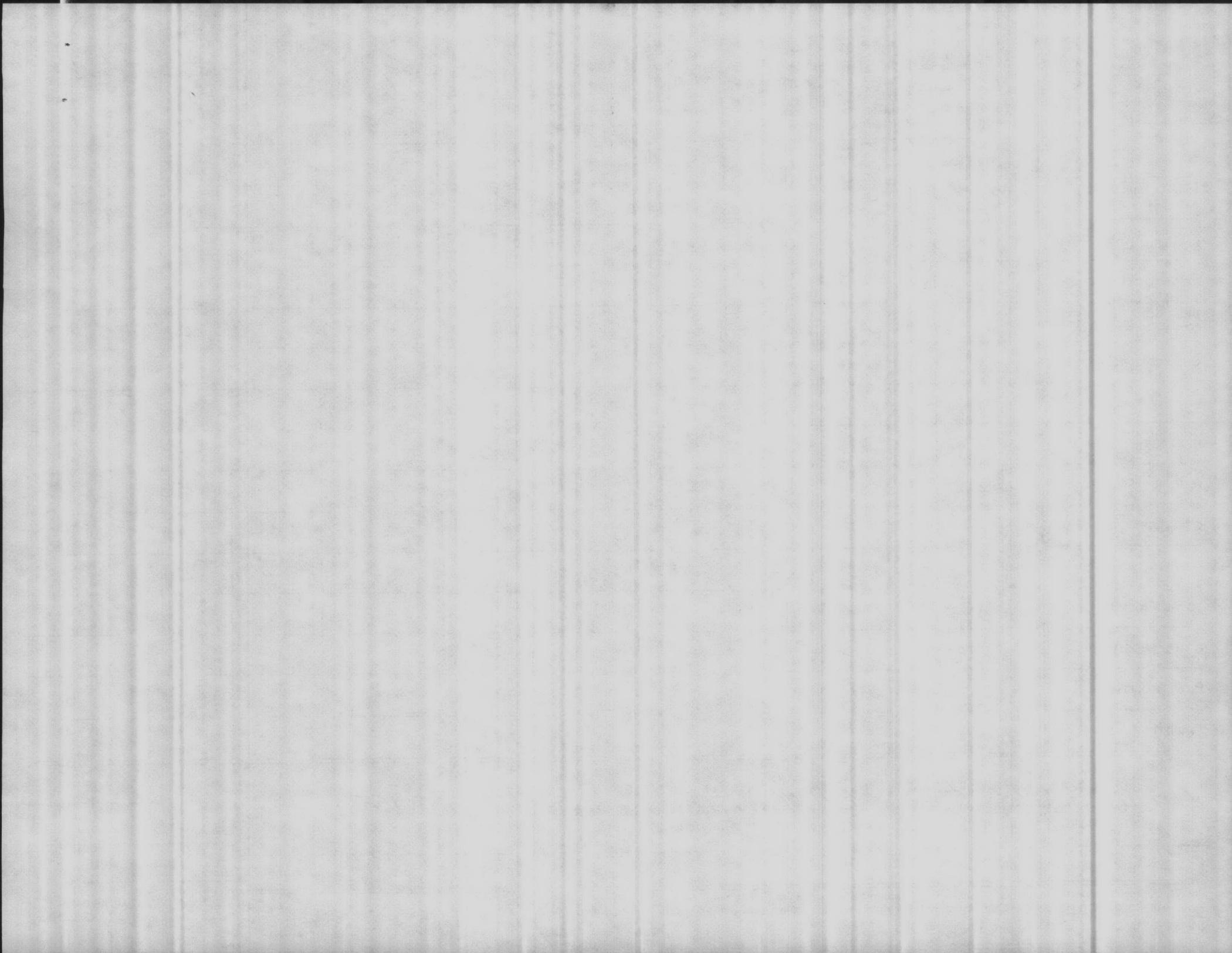
PMU  MCAS PMU

NREAD  FILE

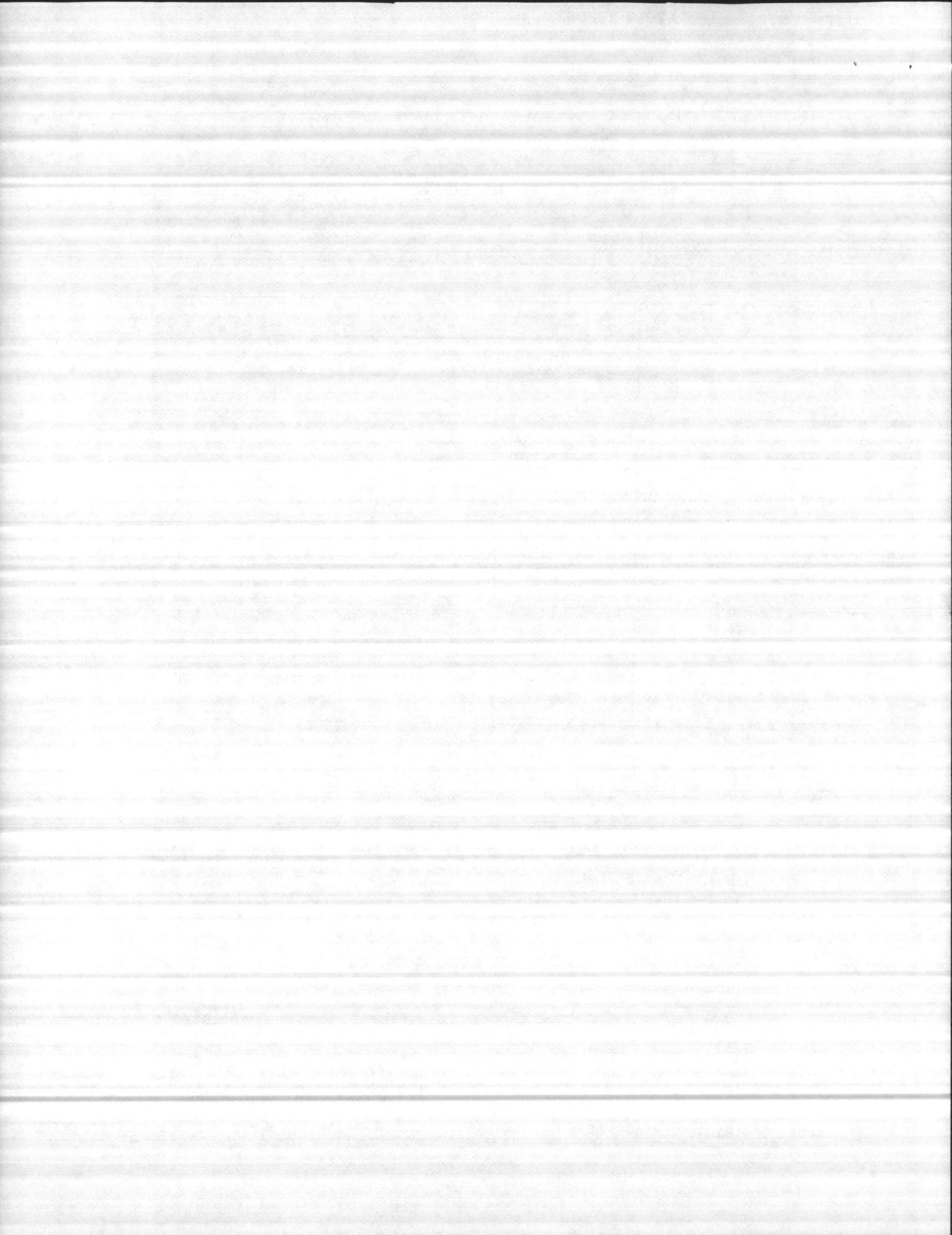
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

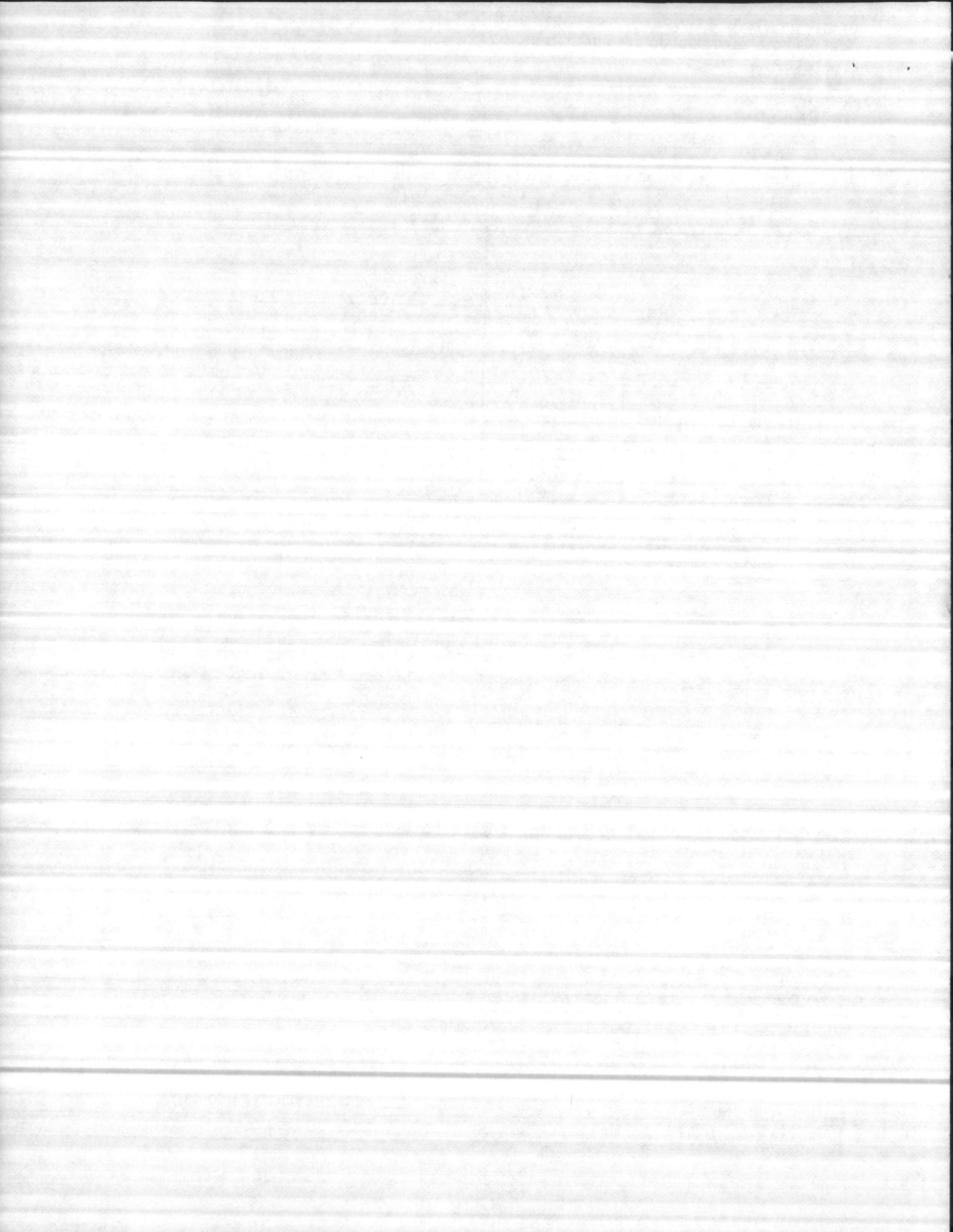
*Kevin J. Hines*











CHEMICAL ANALYSIS — WATER TREATMENT PLANTS <sup>212</sup>

MCBCL 11330/3 (REV. 6-84)

INSIDE HYDRAWT

DATE COLLECTED

3/4/85

DATE OF ANALYSIS

3/4/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	<del>TAHAWA TERRACE</del>	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD <sup>11</sup> 2120	NEW RIVER <sup>HP</sup>
PH			8.7	9.0			9.9 10.5	
PHENOLTHALEIN ALKALINITY			18	18			84	10
METHYL ORANGE ALKALINITY			50	50			102	56
CARBONATES AS CaCO <sub>3</sub>			36	36			168	20
BICARBONATES AS CaCO <sub>3</sub>			14	14			66	36
CHLORIDES AS Cl			10	10			18	
HARDNESS AS CaCO <sub>3</sub>			50	50			100	
IRON AS Fe								
FLUORIDE							1.00	
CHLORINE RESIDUAL							0.5	
TURBIDITY							0.6	
TOTAL PHOSPHATE								
ORTHO PHOSPHATE								
META PHOSPHATE								
STABILITY							+0.6	

REMARKS

COPY TO:

UTIL DIR     \_\_\_\_\_

WATER TREATMENT

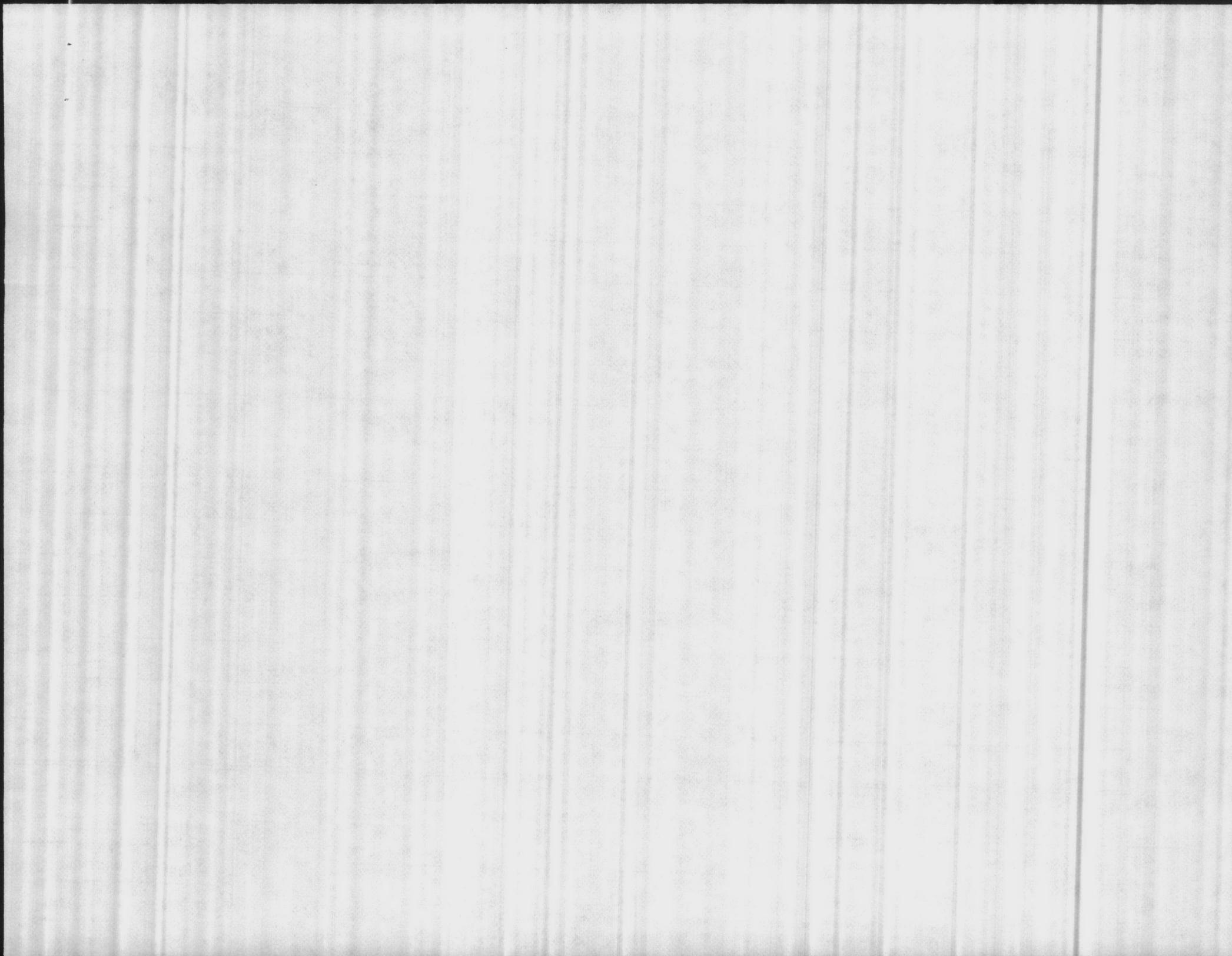
PMU     MCAS PMU

NREAD     FILE

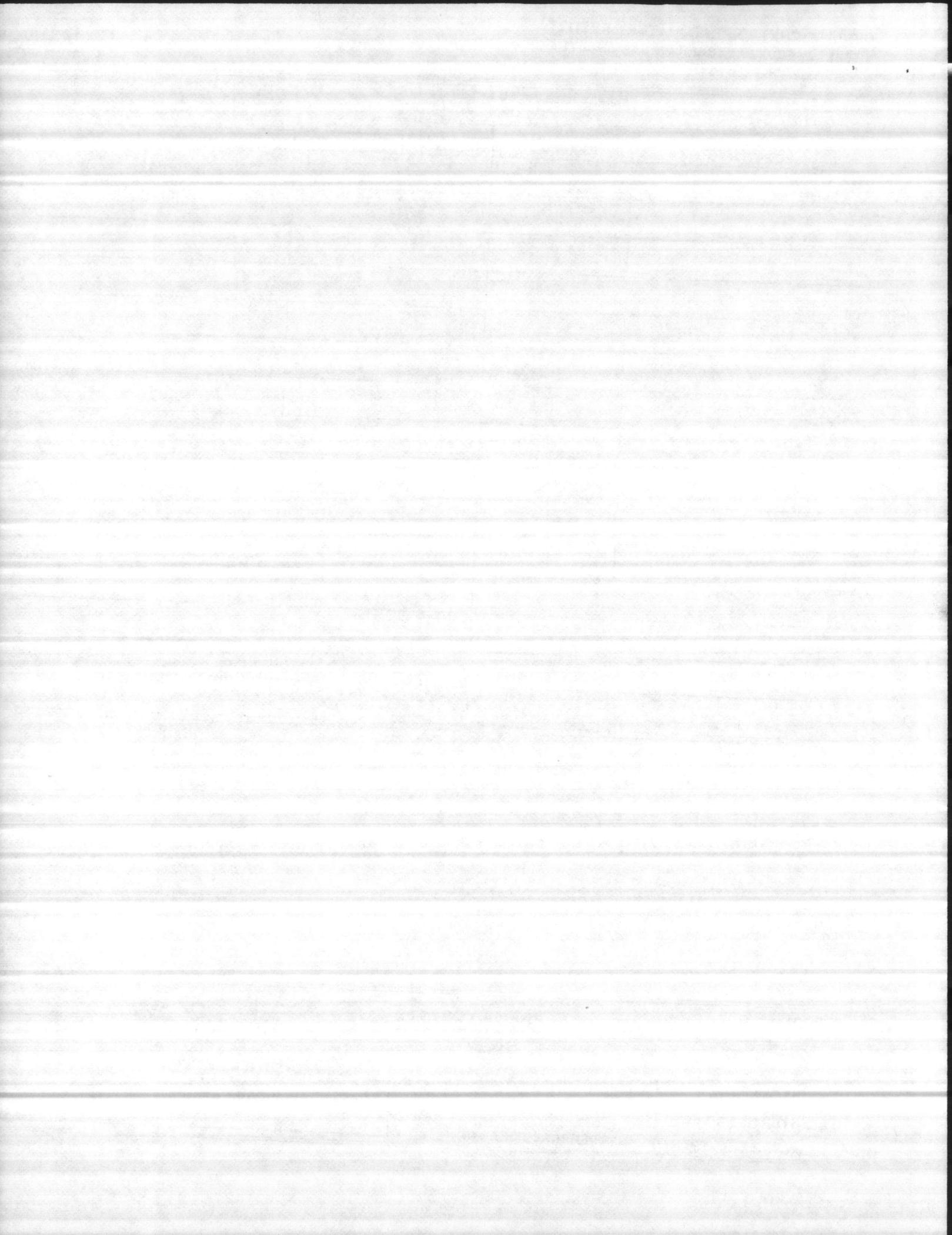
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

Burns & Lucharselle







CHEMICAL ANALYSIS — WATER TREATMENT PLANTS  
 MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

11 MAR 85

DATE OF ANALYSIS

11 MAR 85

PARAMETER	HP-25 HABNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0									
PHENOLTHALEIN ALKALINITY	6									
METHYL ORANGE ALKALINITY	60									
CARBONATES AS CaCO <sub>3</sub>	12									
BICARBONATES AS CaCO <sub>3</sub>	48									
CHLORIDES AS Cl	14									
HARDNESS AS CaCO <sub>3</sub>	64									
IRON AS Fe	-									
FLUORIDE	0.90									
CHLORINE RESIDUAL	0.2									
TURBIDITY	0.42									
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.5									

REMARKS

COPY TO:

UTIL DIR  \_\_\_\_\_

WATER TREATMENT

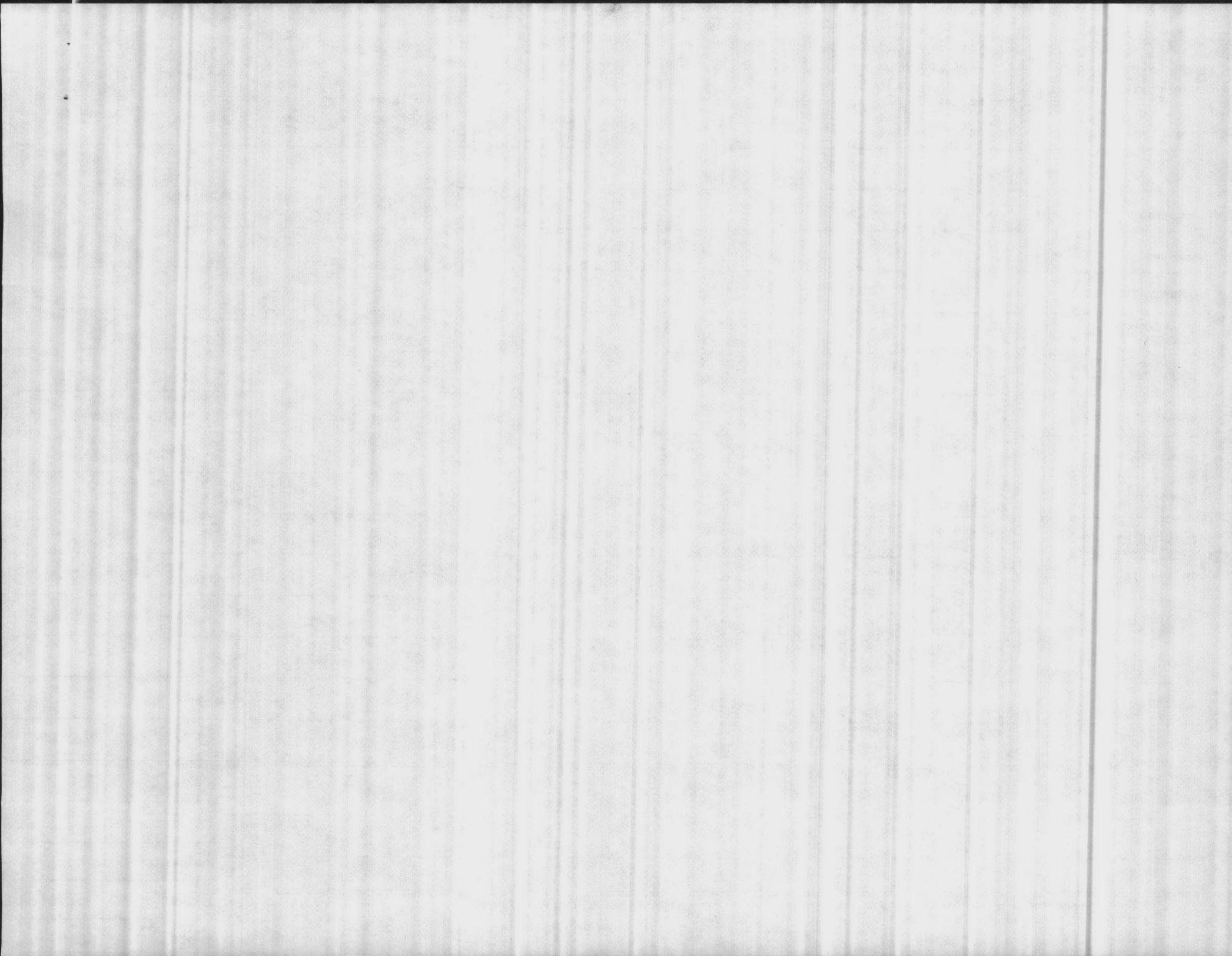
PMU  MCAS PMU

NREAD  FILE

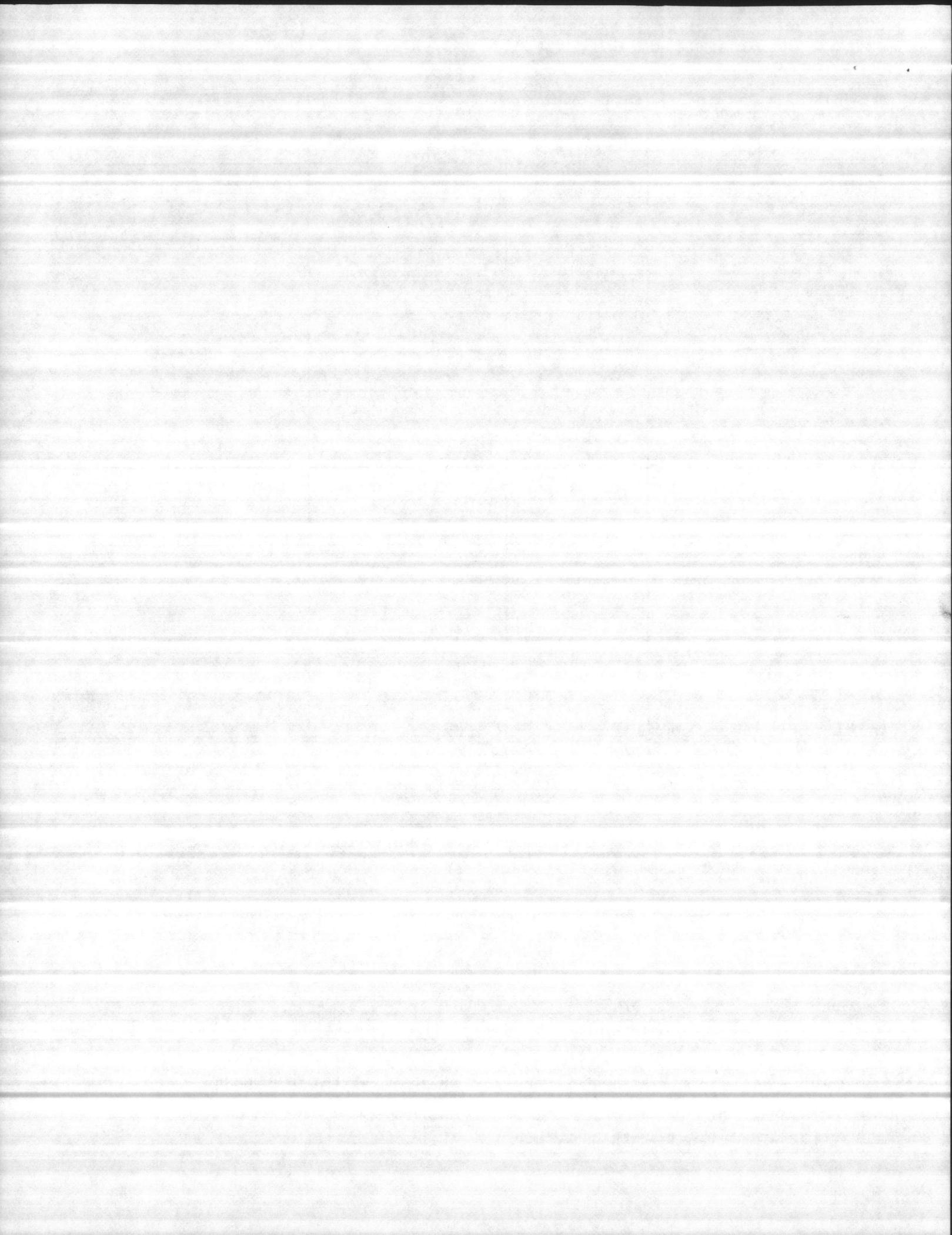
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

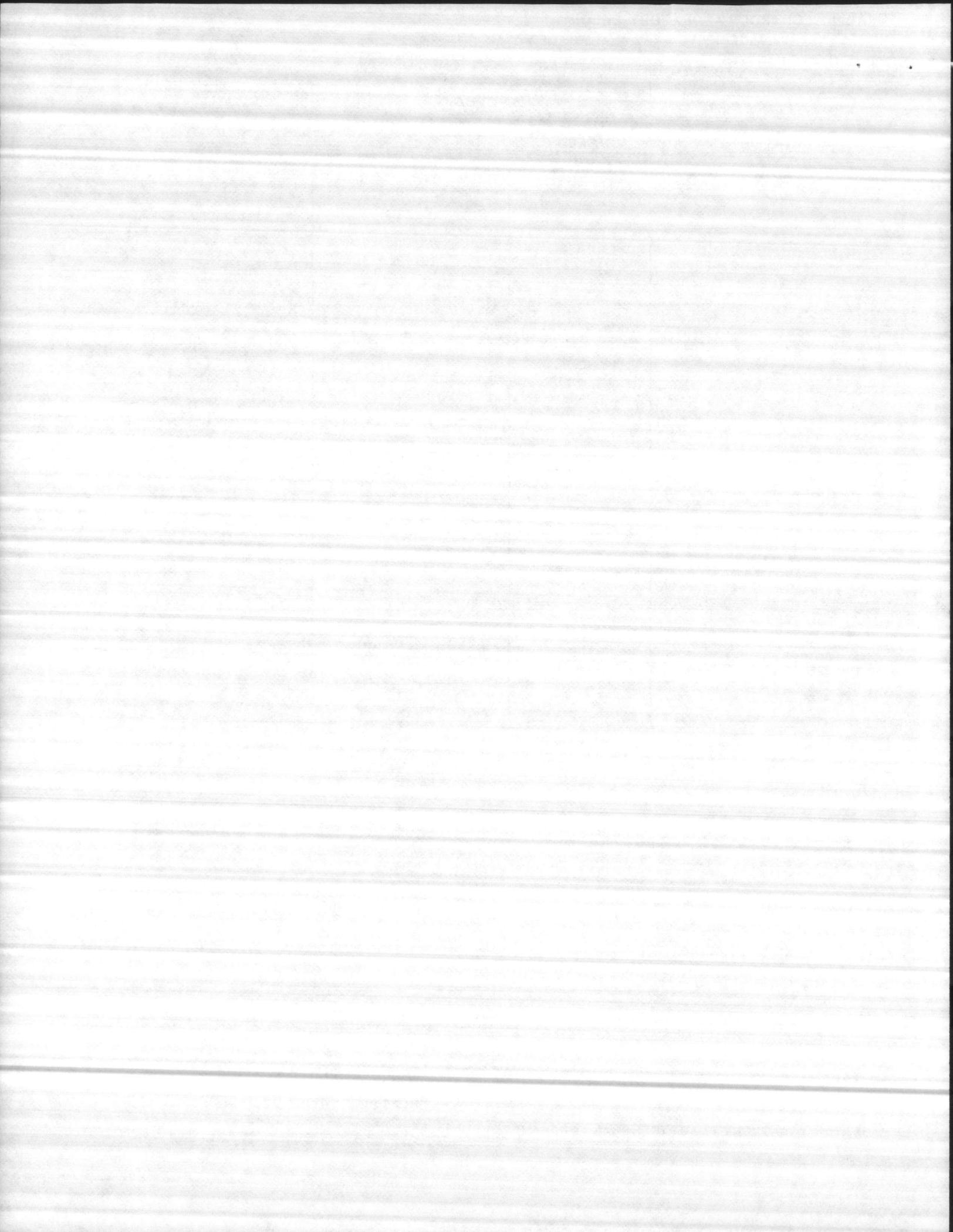
*th Barber*











CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84)

3290 HARTMAN

DATE COLLECTED

21 MAR 85

DATE OF ANALYSIS

21 MAR 85

PARAMETER	<del>HADNOT POINT</del>	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.5									
PHENOLTHALEIN ALKALINITY	4									
METHYL ORANGE ALKALINITY	54									
CARBONATES AS CaCO <sub>3</sub>	8									
BICARBONATES AS CaCO <sub>3</sub>	46									
CHLORIDES AS Cl	14									
HARDNESS AS CaCO <sub>3</sub>	70									
IRON AS Fe	-									
FLUORIDE	0.81									
CHLORINE RESIDUAL	0.9									
TURBIDITY	5.51									
TOTAL PHOSPHATE	-									
ORTHO PHOSPHATE	-									
META PHOSPHATE	-									
STABILITY	-									

REMARKS

COPY TO:

UTIL DIR

WATER TREATMENT

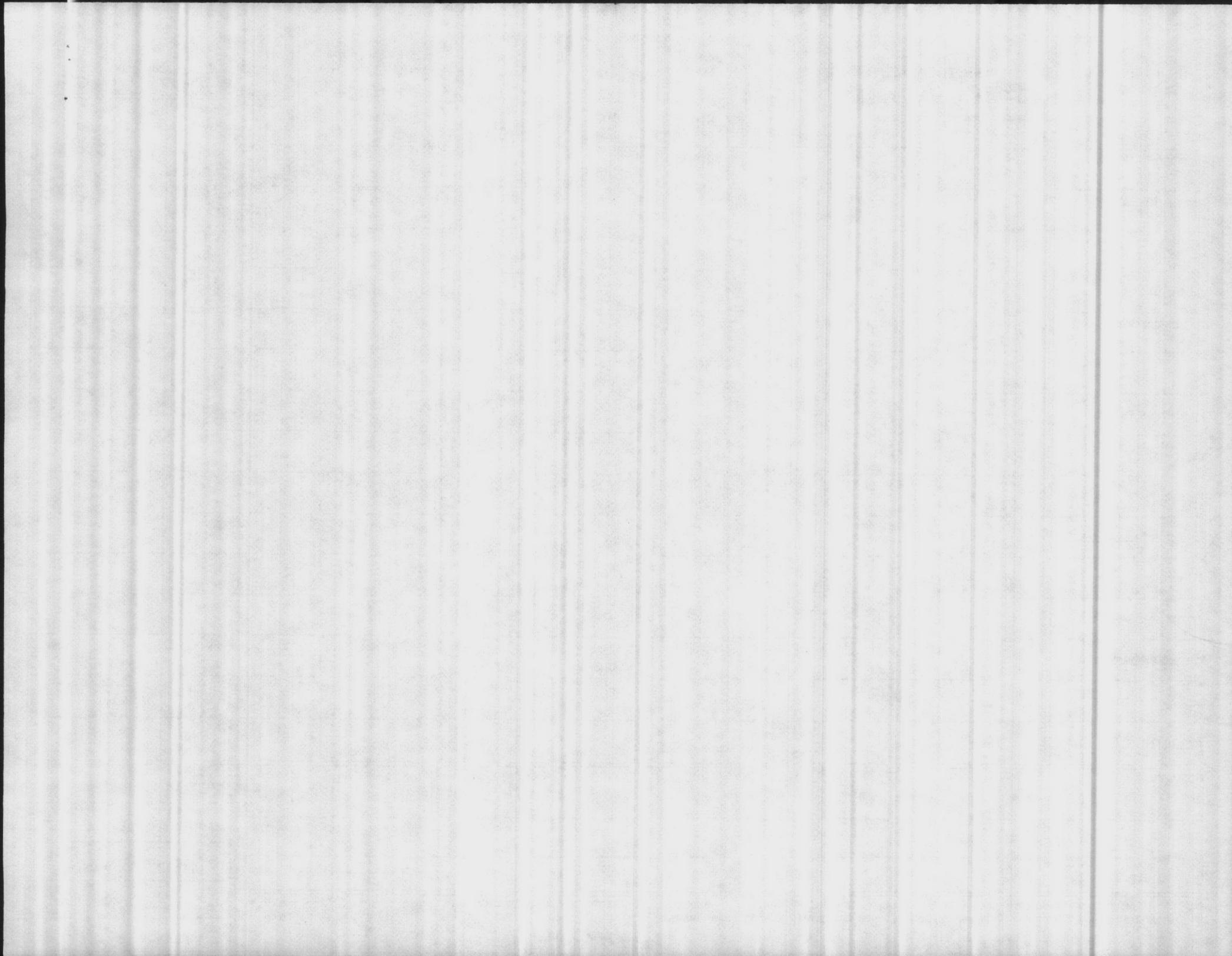
PMU  MCAS-PMU

NREAD  FILE

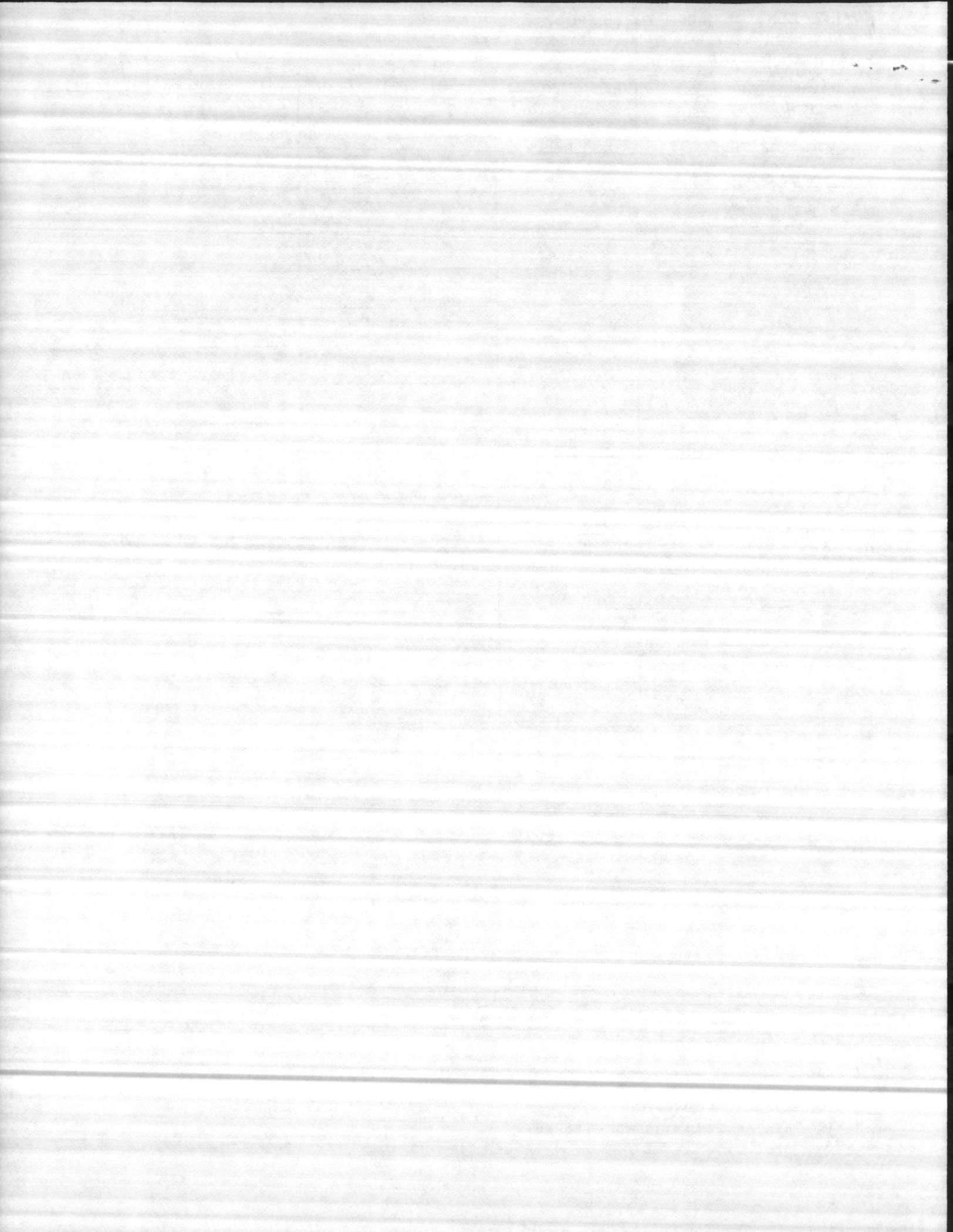
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

*Th Barber*







CHEMICAL ANALYSIS — WATER TREATMENT PLANTS  
 MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

1 APR 85

DATE OF ANALYSIS

1 APR 85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.7							
PHENOLTHALEIN ALKALINITY	4							
METHYL ORANGE ALKALINITY	40							
CARBONATES AS CaCO <sub>3</sub>	8							
BICARBONATES AS CaCO <sub>3</sub>	32							
CHLORIDES AS Cl	12							
HARDNESS AS CaCO <sub>3</sub>	64							
IRON AS Fe	—							
FLUORIDE	1.07							
CHLORINE RESIDUAL								
TURBIDITY	0.60							
TOTAL PHOSPHATE	—							
ORTHO PHOSPHATE	—							
META PHOSPHATE	—							
STABILITY	—							

REMARKS

COPY TO:

UTIL DIR  \_\_\_\_\_

WATER TREATMENT

PMU  MCAS PMU

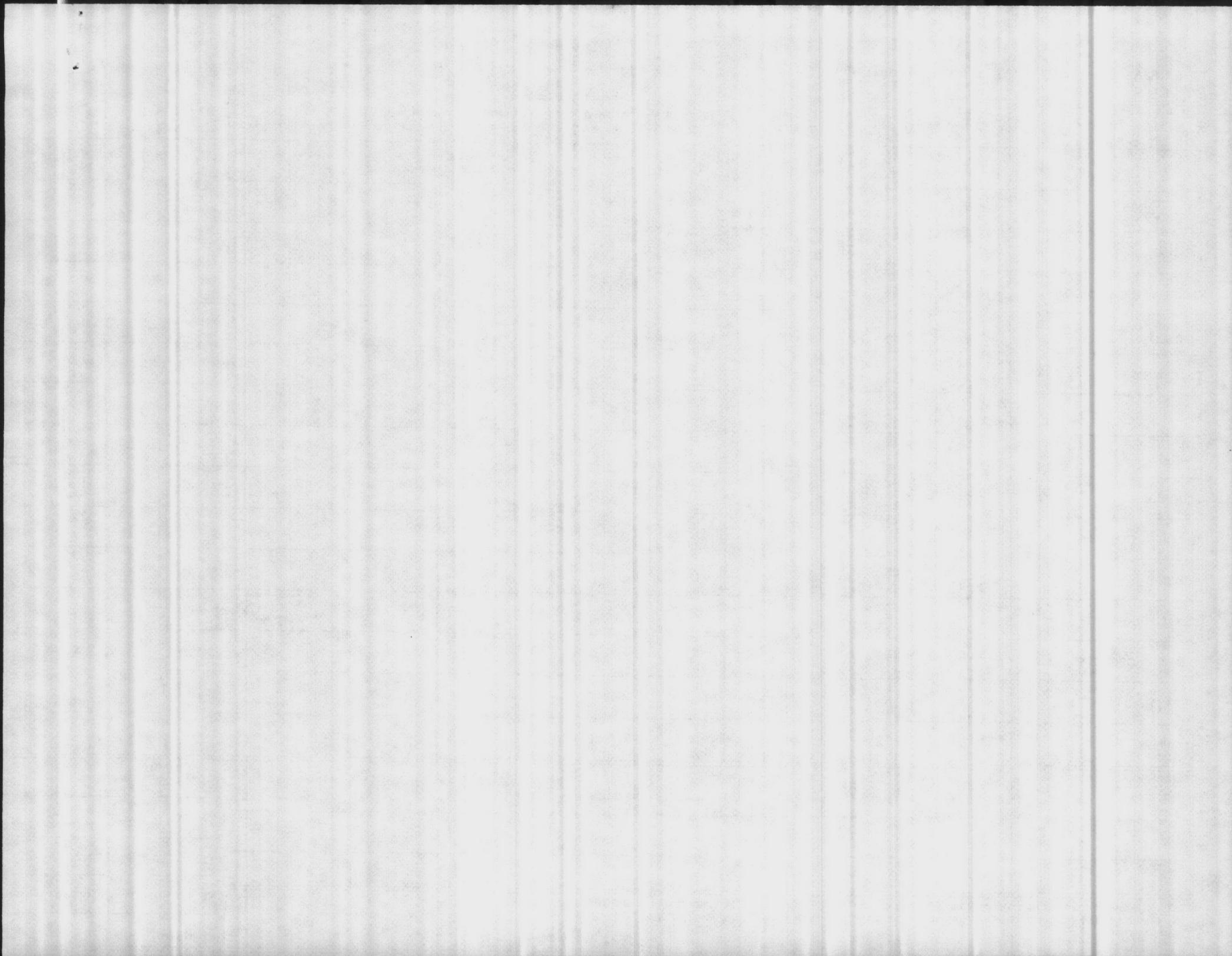
NREAD  FILE

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

*Barbee*

ENCLOSURE (6)



CHEMICAL ANALYSIS — WATER TREATMENT PLANTS  
 MCBCL 11330/3 (REV. 6-84)

TT 2410

DATE COLLECTED

3/1/85

DATE OF ANALYSIS

3/1/85

PARAMETER	HADNOT POINT	CAMP JOHNSON	TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH			9.1							
PHENOLTHALEIN ALKALINITY			12							
METHYL ORANGE ALKALINITY			36							
CARBONATES AS CaCO <sub>3</sub>			24							
BICARBONATES AS CaCO <sub>3</sub>			12							
CHLORIDES AS Cl			10							
HARDNESS AS CaCO <sub>3</sub>			76							
IRON AS Fe										
FLUORIDE			0.89							
CHLORINE RESIDUAL			0.9							
TURBIDITY			0.4							
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY										

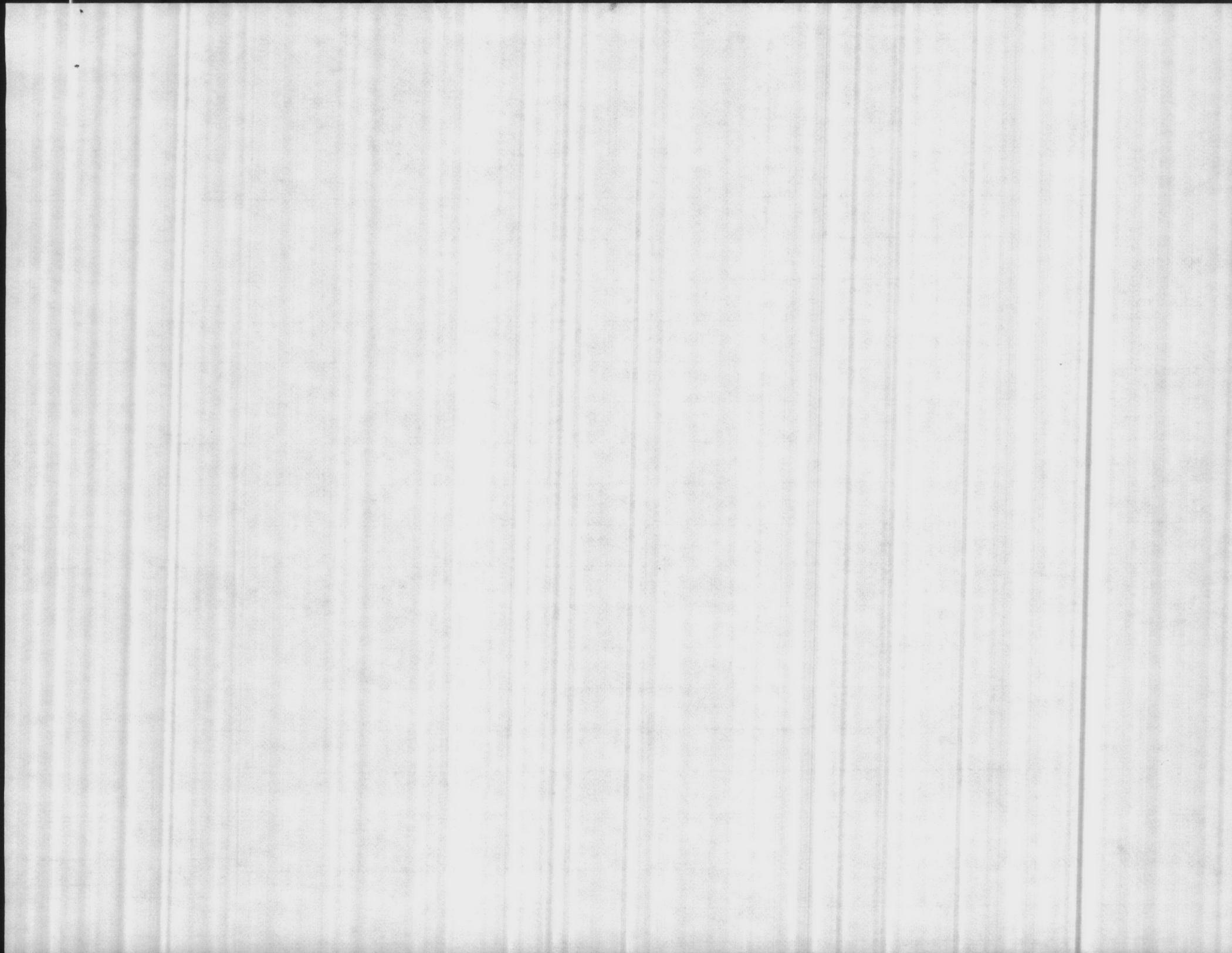
REMARKS

Reported results to Larry Hill by phone on 3/1/85 at 1320.

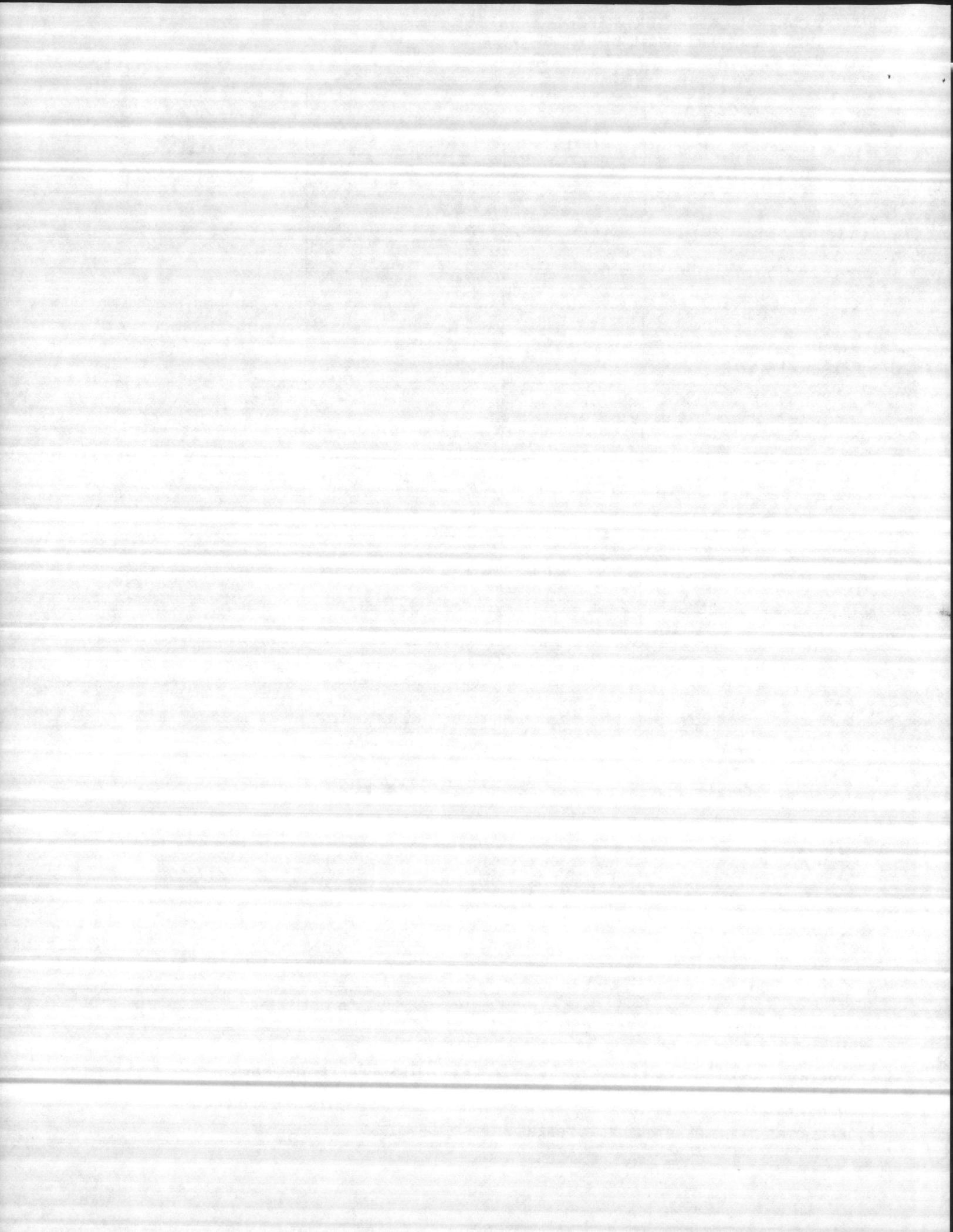
COPY TO:

UTIL DIR

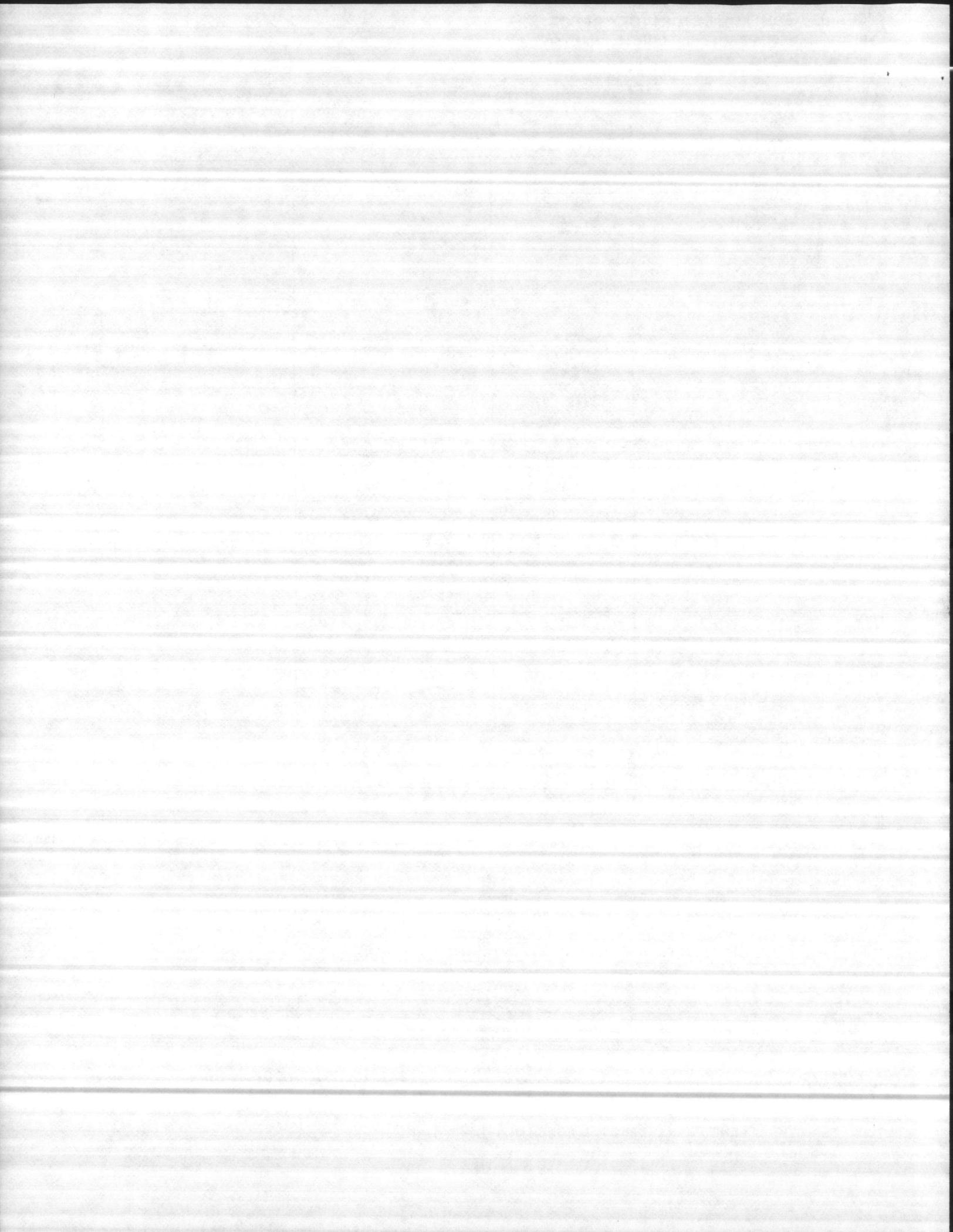
WATER TREATMENT











CHEMICAL ANALYSIS — WATER TREATMENT PLANTS<sup>2120</sup>  
 MCBCL 11330/3 (REV. 6-84)

INSIDE NEWPORT

DATE COLLECTED  
 3/4/85

DATE OF ANALYSIS  
 3/4/85

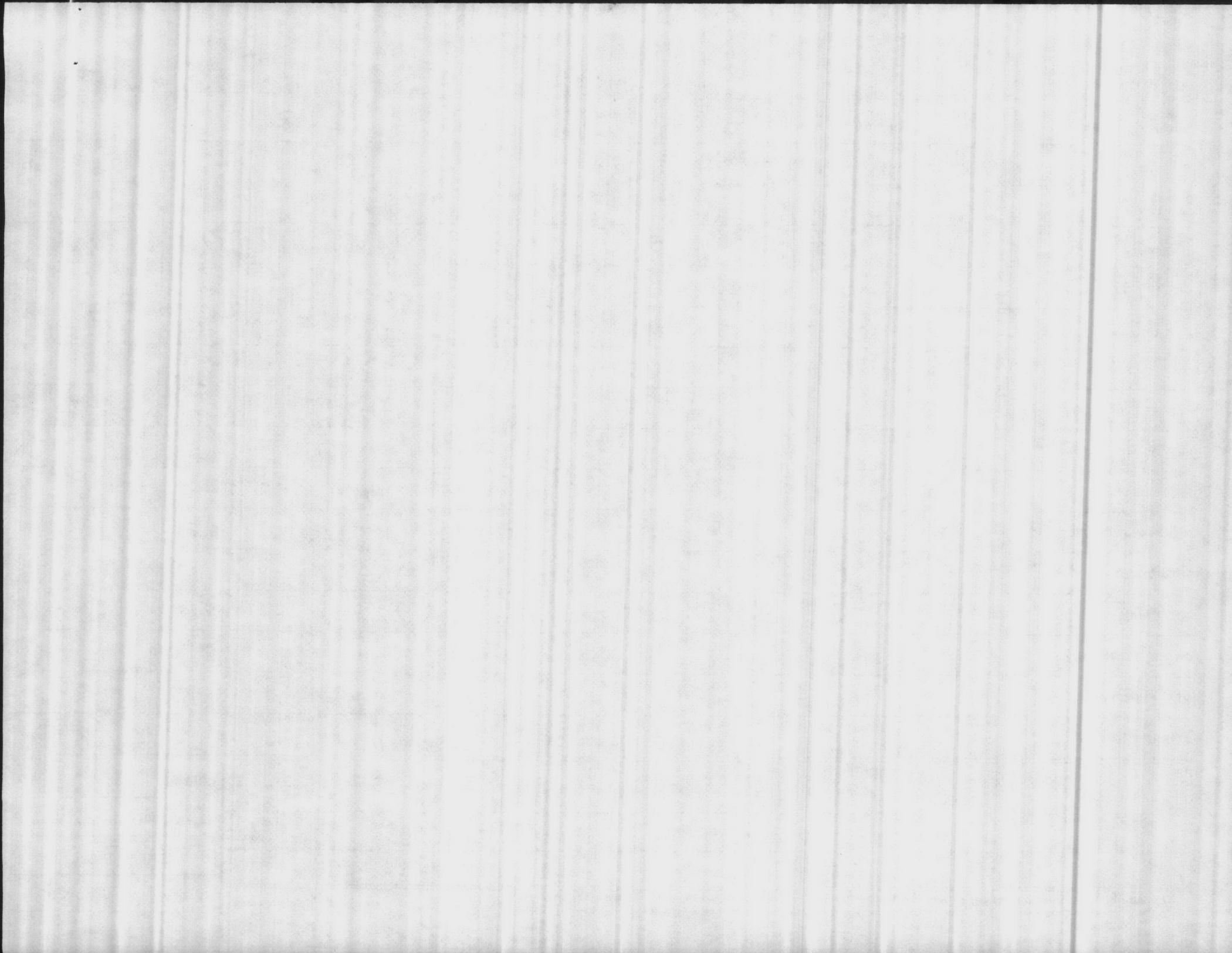
PARAMETER	HADNOT POINT	CAMP JOHNSON	<del>TAHAWA TERRACE</del>	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD <sup>11</sup> 2120	NEW RIVER <sup>HB</sup>		
PH			8.7	9.0			10.5			
PHENOLTHALEIN ALKALINITY			18	18			84	10		
METHYL ORANGE ALKALINITY			50	50			102	56		
CARBONATES AS CaCO <sub>3</sub>			36	36			168	20		
BICARBONATES AS CaCO <sub>3</sub>			14	14			66	36		
CHLORIDES AS Cl			10	10			18			
HARDNESS AS CaCO <sub>3</sub>			50	50			100			
IRON AS Fe										
FLUORIDE							1.00			
CHLORINE RESIDUAL							0.5			
TURBIDITY							0.6			
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY							70.6			

REMARKS

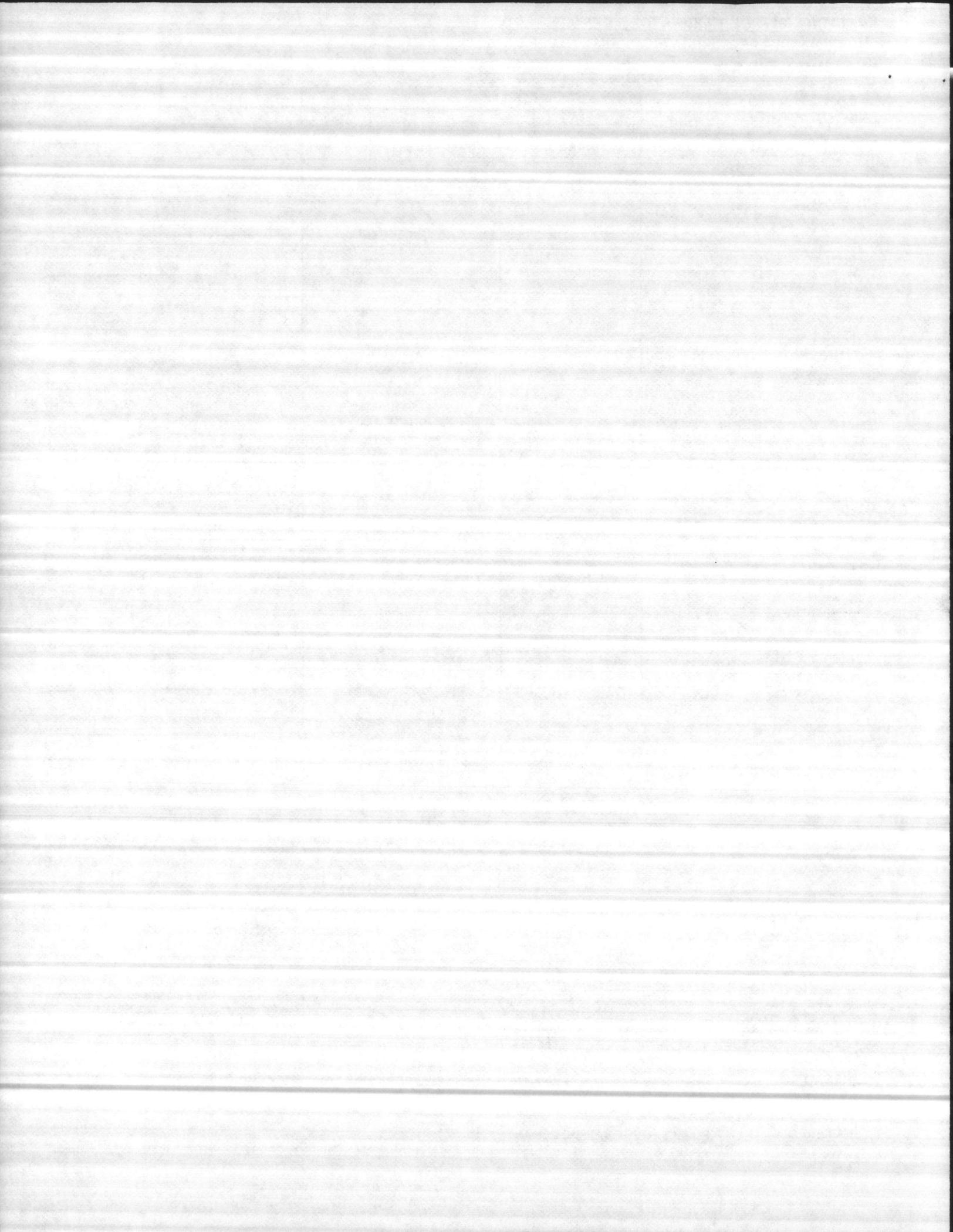
- COPY TO:
- UTIL DIR  \_\_\_\_\_
  - WATER TREATMENT
  - PMU  MCAS PMU
  - NREAD  FILE

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 & Lockwood







CHEMICAL ANALYSIS — WATER TREATMENT PLANTS  
 MCBCL 11330/3 (REV. 6-84)

DATE COLLECTED

11 MAR 85

DATE OF ANALYSIS

11 MAR 85

PARAMETER	HP-25 HABNOT POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	9.0									
PHENOLTHALEIN ALKALINITY	6									
METHYL ORANGE ALKALINITY	60									
CARBONATES AS CaCO <sub>3</sub>	12									
BICARBONATES AS CaCO <sub>3</sub>	48									
CHLORIDES AS Cl	14									
HARDNESS AS CaCO <sub>3</sub>	64									
IRON AS Fe	-									
FLUORIDE	0.90									
CHLORINE RESIDUAL	0.2									
TURBIDITY	0.42									
TOTAL PHOSPHATE										
ORTHO PHOSPHATE										
META PHOSPHATE										
STABILITY	+0.5									

REMARKS

COPY TO:

UTIL DIR  \_\_\_\_\_

WATER TREATMENT

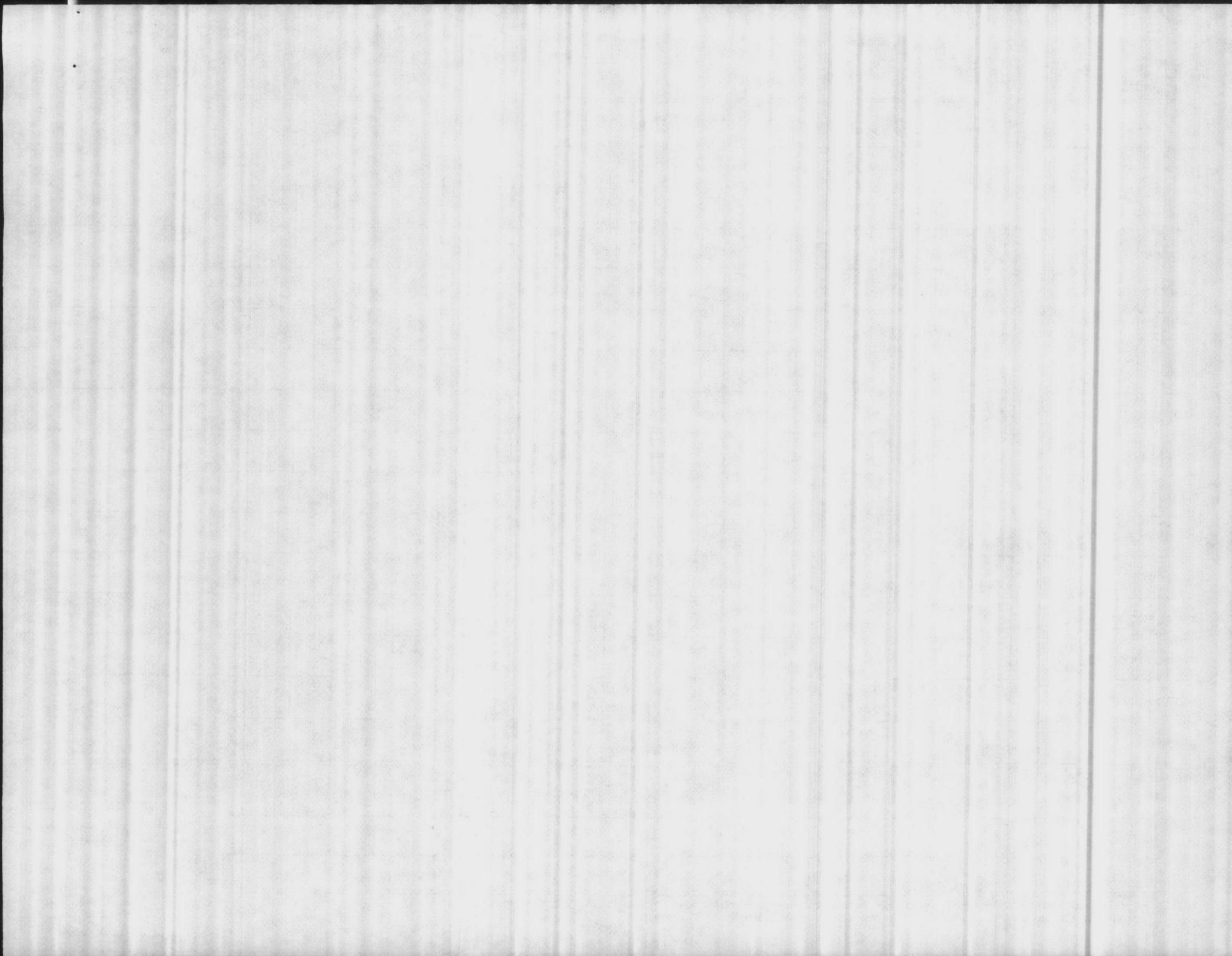
PMU  MCAS PMU

NREAD  FILE

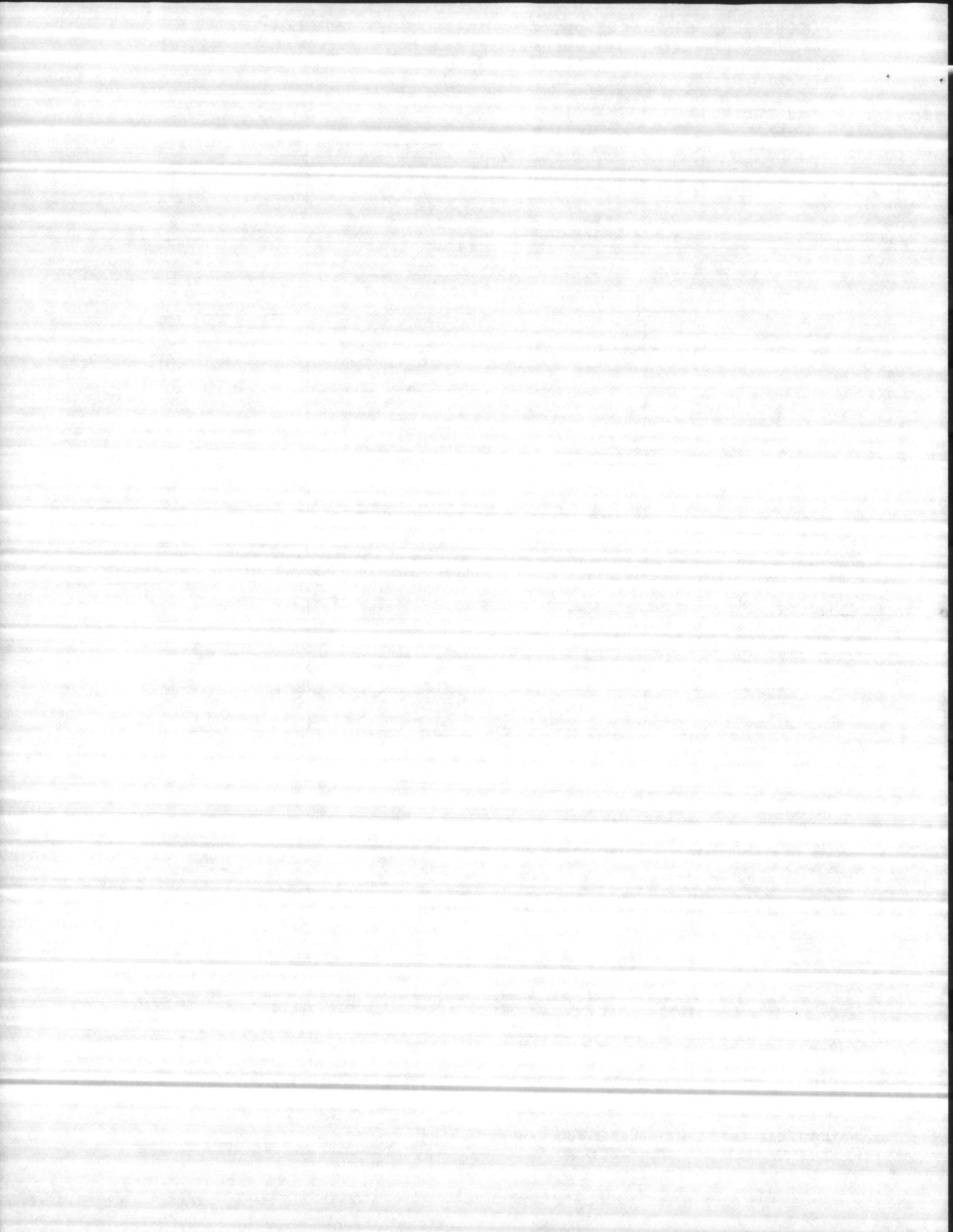
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

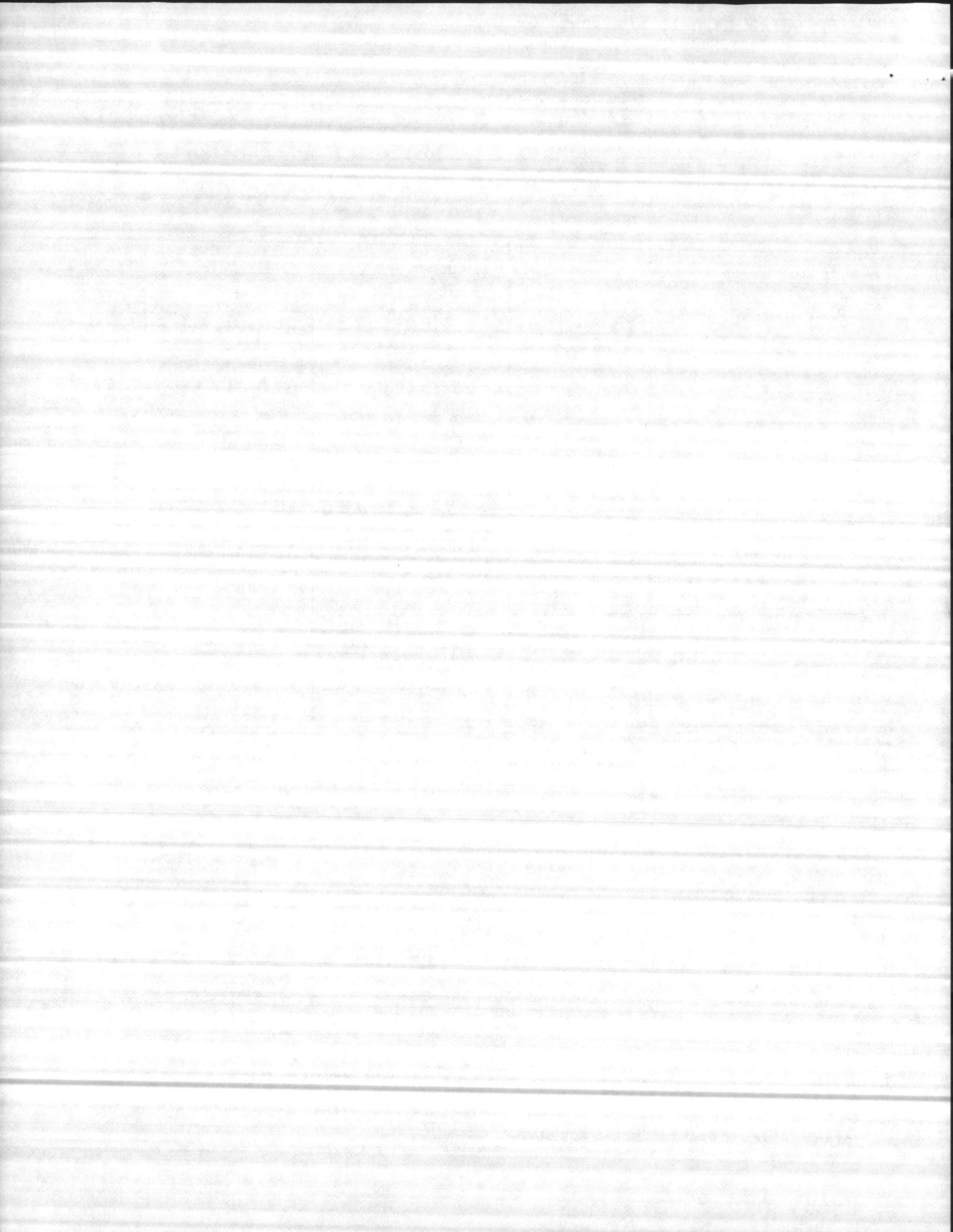
*th Barber*











CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCAS CL 11330/3 (REV. 6-84)

3290 HARTMAN

DATE COLLECTED

21 MAR 85

DATE OF ANALYSIS

21 MAR 85

PARAMETER	<del>HADNOT POINT</del>	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	8.5									
PHENOLTHALEIN ALKALINITY	4									
METHYL ORANGE ALKALINITY	54									
CARBONATES AS CaCO <sub>3</sub>	8									
BICARBONATES AS CaCO <sub>3</sub>	46									
CHLORIDES AS Cl	14									
HARDNESS AS CaCO <sub>3</sub>	70									
IRON AS Fe	—									
FLUORIDE	0.81									
CHLORINE RESIDUAL	0.9									
TURBIDITY	5.51									
TOTAL PHOSPHATE	—									
ORTHO PHOSPHATE	—									
META PHOSPHATE	—									
STABILITY	—									

REMARKS

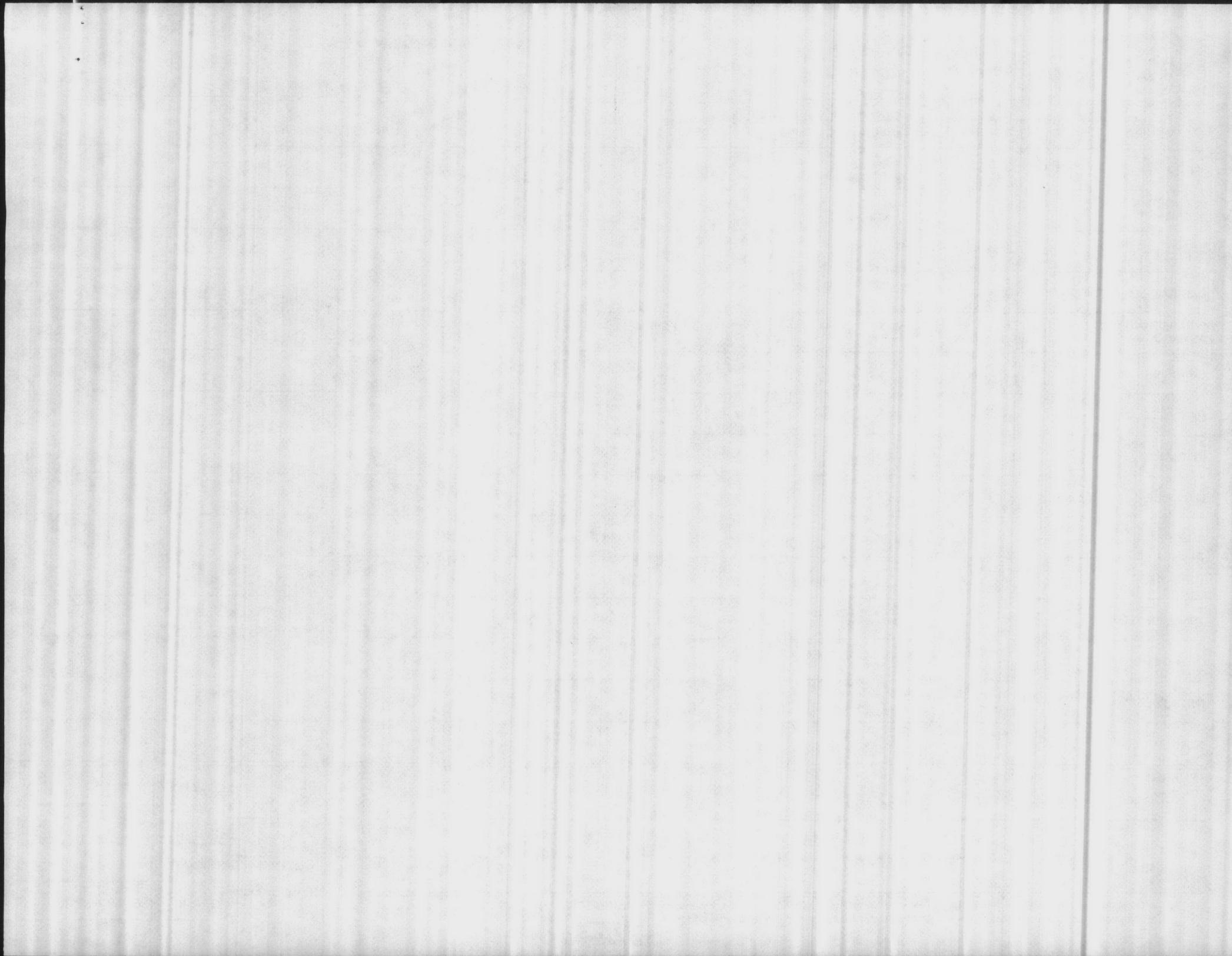
COPY TO:

- UTIL DIR     \_\_\_\_\_
- WATER TREATMENT
- PMU     MCAS-PMU
- NREAD     FILE

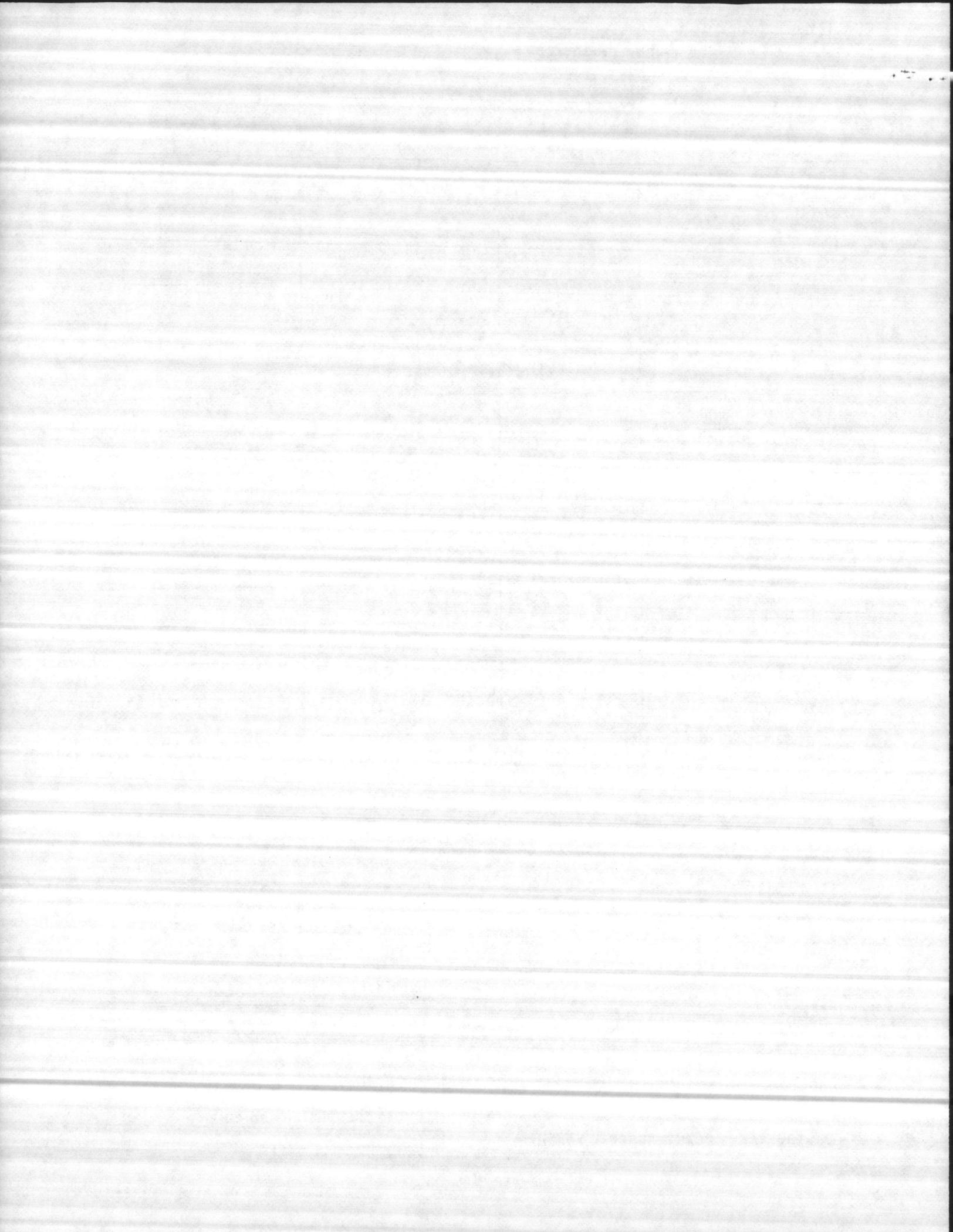
NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature; and specific conductance. One liter of potable water is assumed to weigh one kilogram.

LABORATORY ANALYSIS BY

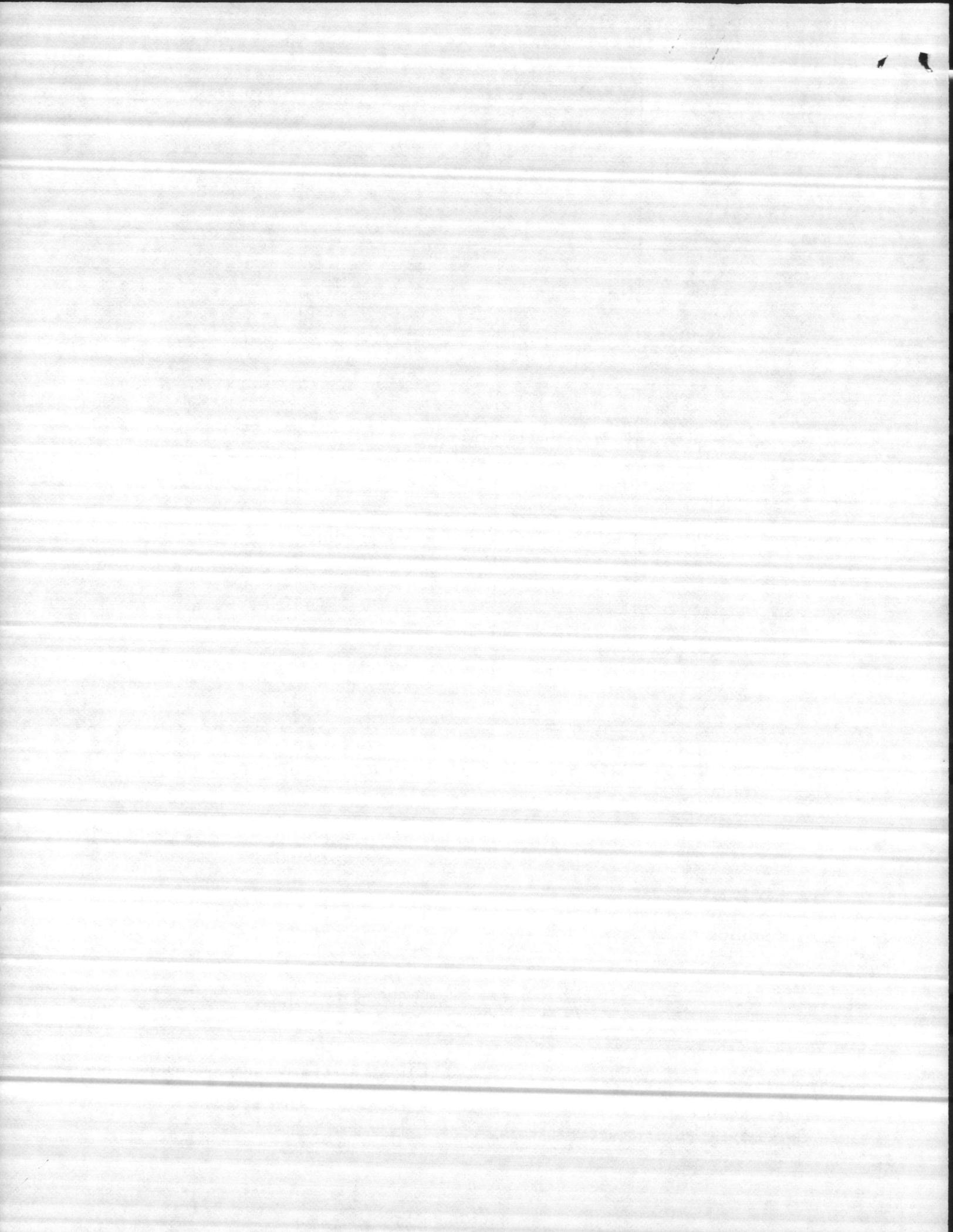
*Th Barber*











CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 6-84) **ELLIS COVE**

DATE COLLECTED

**25 MAR 85**

DATE OF ANALYSIS

**27 MAR 85**

PARAMETER	HAGNOF POINT	CAMP JOHNSON	TARAWA TERRACE	ONSLow BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER		
PH	7.8									
PHENOLTHALEIN ALKALINITY	0									
METHYL ORANGE ALKALINITY	88									
CARBONATES AS CaCO <sub>3</sub>	0									
BICARBONATES AS CaCO <sub>3</sub>	88									
CHLORIDES AS Cl	620 <sup>+</sup>									
HARDNESS AS CaCO <sub>3</sub>	230									
IRON AS Fe	- *									
FLUORIDE	0.63									
CHLORINE RESIDUAL	- *									
TURBIDITY	1.96									
TOTAL PHOSPHATE	- *									
ORTHO PHOSPHATE	- *									
META PHOSPHATE	- *									
STABILITY	- *									

REMARKS

**SAMPLE TESTED ONLY FOR ABOVE PARAMETERS. NOT TO BE CONSIDERED**

**TO BE <sup>13</sup> POTABLE WATER.**

**- \* NOT TESTED.**

COPY TO:

UTIL DIR  \_\_\_\_\_

WATER TREATMENT

PMU  MCAS-PMU

NREAD  FILE

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

*The Barber*

