

11331
NREAD
3 Nov 87

Mr. John McFadyen
Water Supply Branch
Division of Health Services
North Carolina Department of
Human Resources
Post Office Box 2091
Raleigh, North Carolina 27602

Dear Mr. McFadyen:

Enclosed are the completed Department of Health Forms (DHS 1942 2/74) for all water treatment plants aboard Marine Corps Base, Camp Lejeune for the period 1-31 October 1987. Also enclosed are the weekly Chemical Analysis Forms (MCBCL 11330/3 Rev 3-82) for the same period, as requested in the 25 October 1982 letter from Mr. Charles Rundgren of your office.

The analysis is run by the Environmental Chemistry and Microbiology Laboratory, located in the Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities. Ms. Betz, Supervisory Chemist, telephone (919) 451-5977, is the point of contact in this matter.

Sincerely,

JULIAN I. WOOTEN
Director, Natural Resources Division
By direction of the Commanding General

Encls: (1) Dept of Health Forms
(2) Chemical Analysis Forms

Copy to:
LANTNAVPACENGCOM (Code 114)

Blind copy to:
BMO (Attn: UTIL DIR)
Supvy Chem (2)

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Month OCTOBER
 Year 1987

HADNOT POINT

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303
 Contaminant Code: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
 U. S. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-041

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	FILTERED		FINISHED		DISTRIBUTION SYSTEM						INCUBATOR TEMP.				
	A		B		C			TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	COLIFORMS (MFP)						REPEAT SAMPLES			
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES							1	2	3	4	5		COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	
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6	<u>7</u>												0	9	0	0	0	0	0	0	35.2	
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27	<u>7</u>												0	9	0	0	0	1	0	0	0	35.2
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MFP MEDIA		BBL mEndo		BACTERIAL DENSITY		ARITH. MEAN								0		DIST. SYSTEM		TOTAL NO. SAMPLES		36		
-TPC MEDIA						GEO. MEAN								1				SAMPLES EXCEEDING 3/50. (4/100) 7/250. 13/500ml		0		

LAB ID # 37807

9/11/87 NOT READ R-WELL # 4087 W



Month OCTOBER
Year 1987

MARINE CORPS AIR STATION WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303
Contaminant Code: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

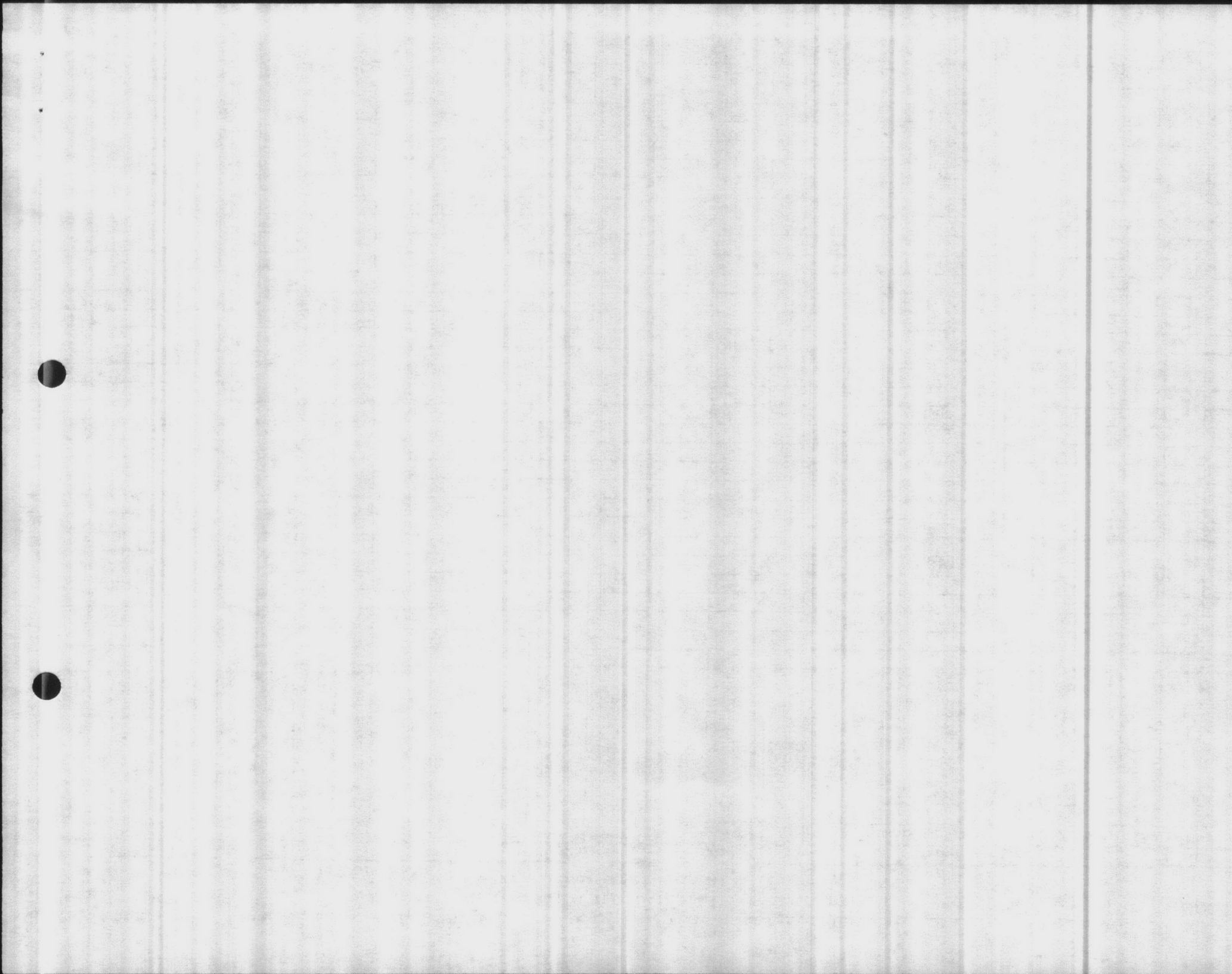
U. S. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-042

DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM									
	A			B			C									COLIFORMS (MFP)					REPEAT SAMPLES				
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES							1	2	3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
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MFP MEDIA										DIST. SYSTEM										28					
BBL mEndo										TOTAL NO. SAMPLES										0					
DACTERIAL DENSITY										SAMPLES EXCEEDING 3/50. (4/100). 7/200. 13/500ml										0					
ARITH. MEAN										CERT LEAD: B-WELL # 4087-W															
GEO. MEAN																									

LAB ID # 37807

Elizabeth B... CERT LEAD: B-WELL # 4087-W



Month OCTOBER
 Year 1987

HOLCOMB 136VD.

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

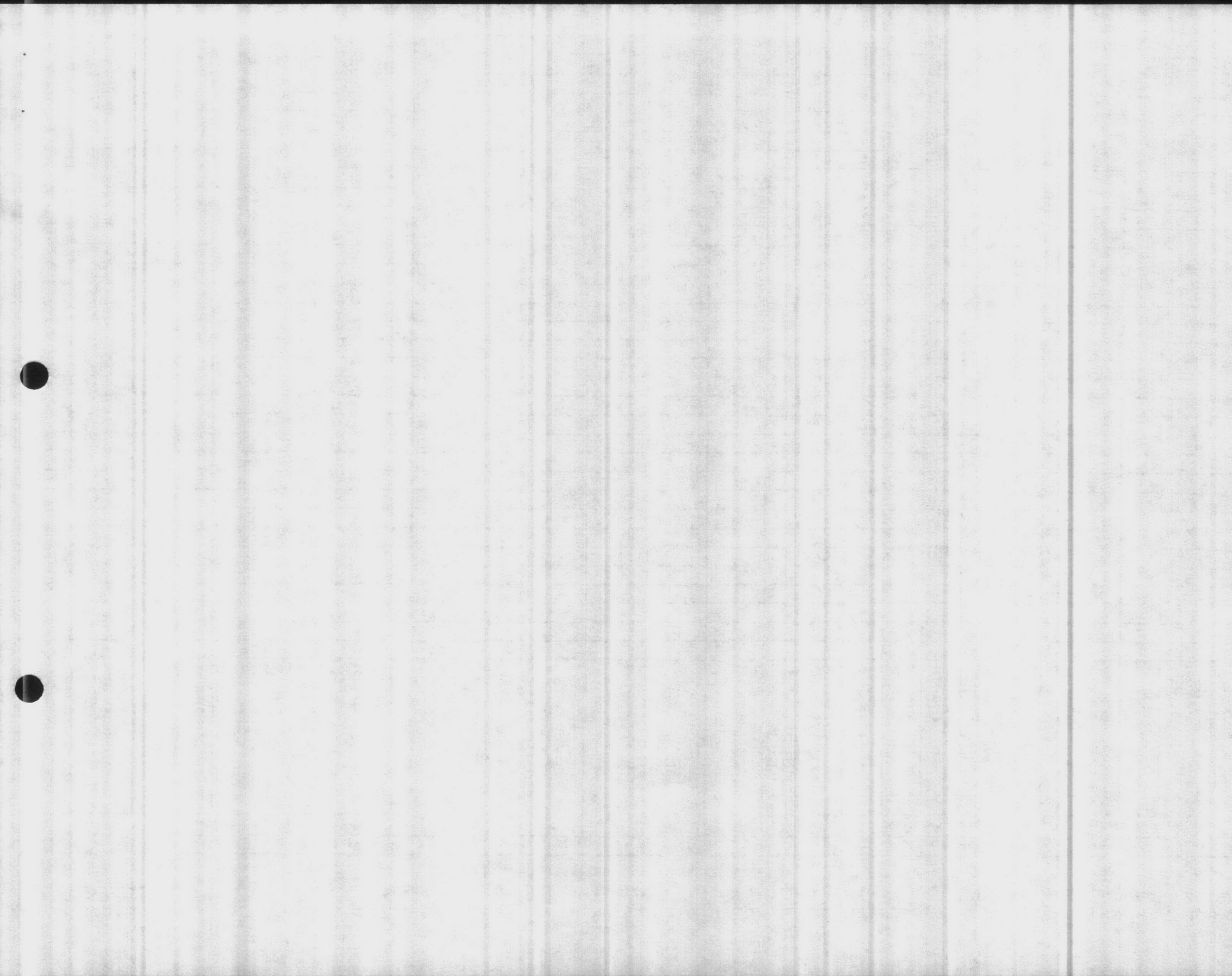
REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

Serial # 04-67-043

N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	FILTERED		FINISHED		DISTRIBUTION SYSTEM							INCUBATOR TEMP.									
	A			B			C				TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	COLIFORMS (MFP)					REPEAT SAMPLES											
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES						AVE. COLIFORMS per 100 ml.	NO. OF SAMPLES EXAMINED	1	2	3	4	5		COLIFORMS per 100 ml.	COLIFORMS per 100 ml.							
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HF MEDIA										BBI mEndo										BACTERIAL DENSITY		ARITH. MEAN		GEO. MEAN		TOTAL NO. SAMPLES		28			
TPC MEDIA																										DISTR. SYSTEM		SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500=1		0	



Month OCTOBER
Year 1987

TARAWA TERRACE

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

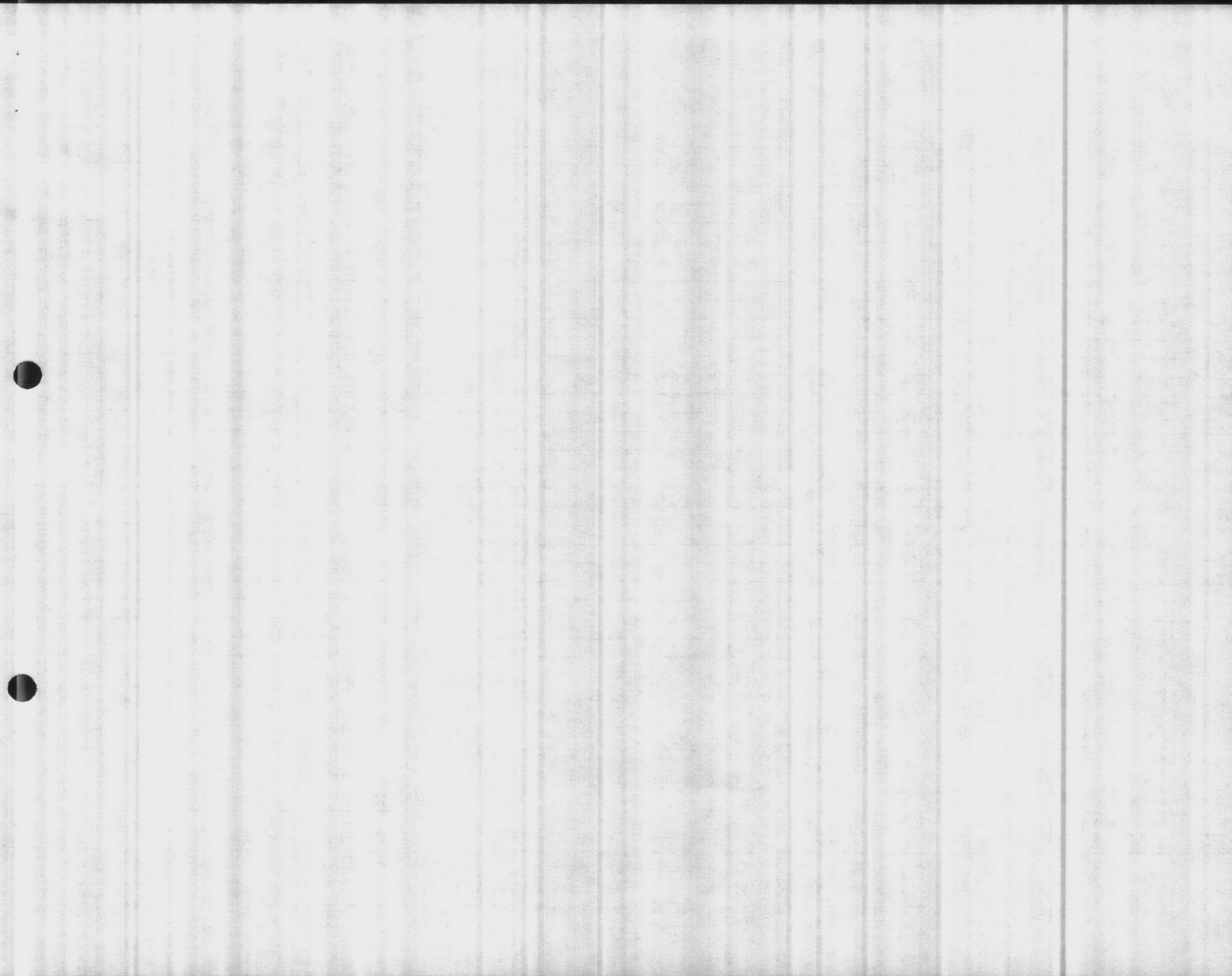
REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

U. S. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-044

DATE	RAW WATER COLIFORMS (MFP)									FILTERED		FINISHED		DISTRIBUTION SYSTEM													INCUBATOR TEMP.						
	A			B			C			TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	COLIFORMS (MFP)					REPEAT SAMPLES													
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES						NO. OF COLIFORMS PER 100 ml.	NO. OF SAMPLES EXAMINED	1	2	3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.									
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Month OCTOBER
Year 1987

CAMP JOHNSON

WATER ANALYSIS FROM CAMP LEJEUNE

Contaminant Code: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

N. C. DEPARTMENT OF HUMAN RESOURCES

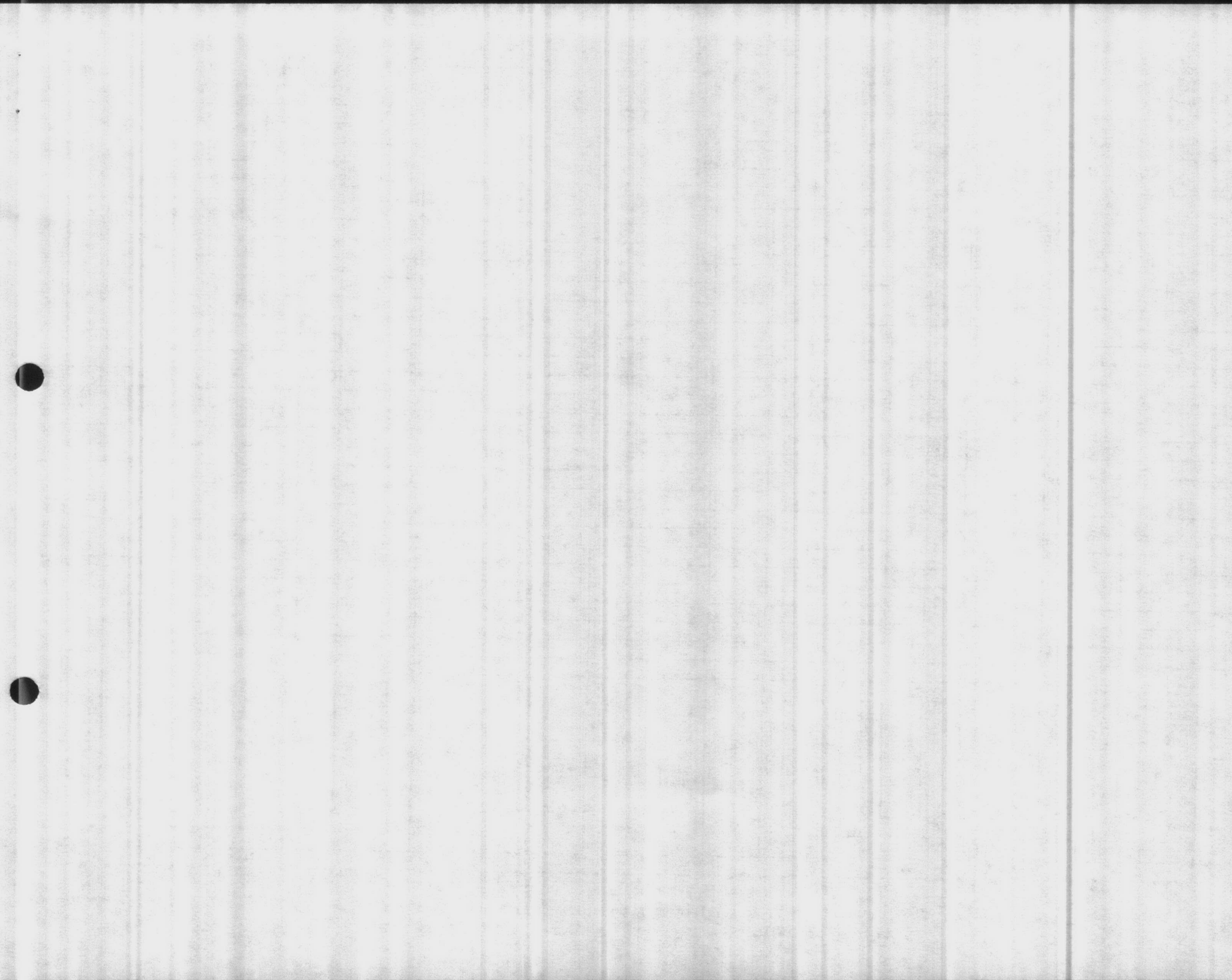
Serial # 04-67-045

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	FILTERED		FINISHED		DISTRIBUTION SYSTEM					INCUBATOR TEMP.				
	A		B		C			TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	COLIFORMS (MFP)					REPEAT SAMPLES			
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES							1	2	3	4		5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
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MFP MEDIA		BBL mEndo		BACTERIAL DENSITY		ARITH. MEAN						DISTR. SYSTEM		TOTAL NO. SAMPLES					SAMPLES EXCEEDING 3/50 (4/100) 7/200 13/500=1		

LAB ID # 37807

Elizabetha Bey

CERT. GRADE B - WELL # 4087-W



Month OCTOBER
Year 1987

RIFLE RANGE

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

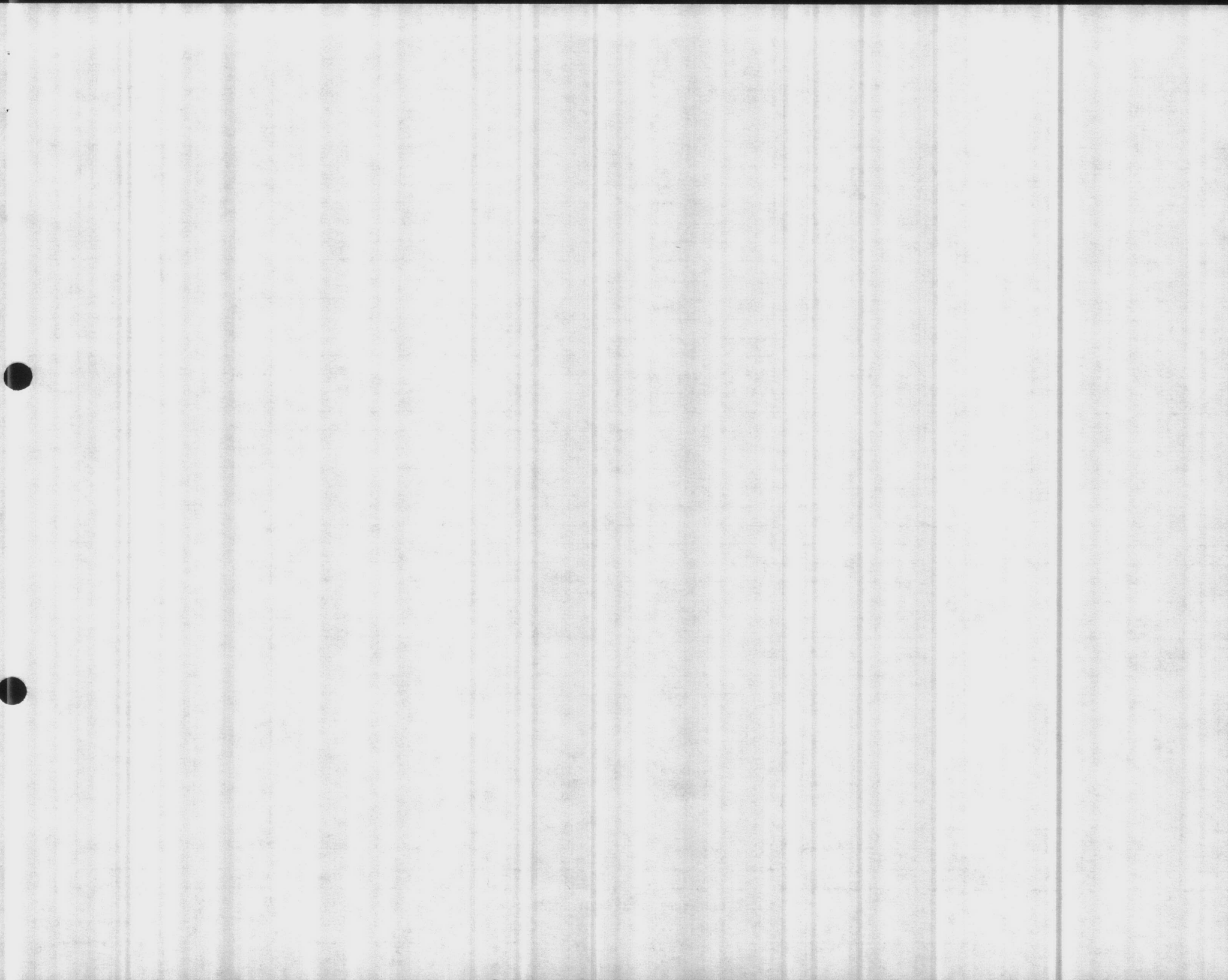
N. C. DEPARTMENT OF HUMAN RESOURCES

Serial # 04-67-046

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM					INCUBATOR TEMP.	PLANKTON			
	A		B		C								COLIFORMS (MFP)							REPEAT SAMPLES		
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES							1	2	3	4	5			COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
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MF MEDIA	BBL mEndo		DACTERIAL DENSITY	ARITH. MEAN								0	DIST. SYSTEM	TOTAL NO. SAMPLES					12			
TPC MEDIA				GEO. MEAN								1		SAMPLES EXCEEDING 3/50 (4/100) 7/200, 13/500=1					0			

LAB. ID 37807

Elizabeth A. Bay



Month 11 Year 1987

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 505
Contaminant Code: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Serial # 04-67-047

N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM					REPEAT SAMPLES	INCUBATOR TEMP.
	A		B		C								COLIFORMS (MFP)						
	VOLUME FILTERED ml.	TOTAL COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLIFORM COLONIES							1	2	3	4	5		
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MF MEDIA		BBL mEndo		BACTERIAL DENSITY		ARITH. MEAN				0.125		DIST. SYSTEM		TOTAL NO. SAMPLES		16			
TPC MEDIA						GEO. MEAN				1.04				SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml		0			

LAB ID # 37807

Myalab 034 CERT GRADE B - WELL # 4087-W



Month OCTOBER
Year 1987

ONSLow BEACH WATER TREATMENT PLANT AT CAMP LEJEUNE

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

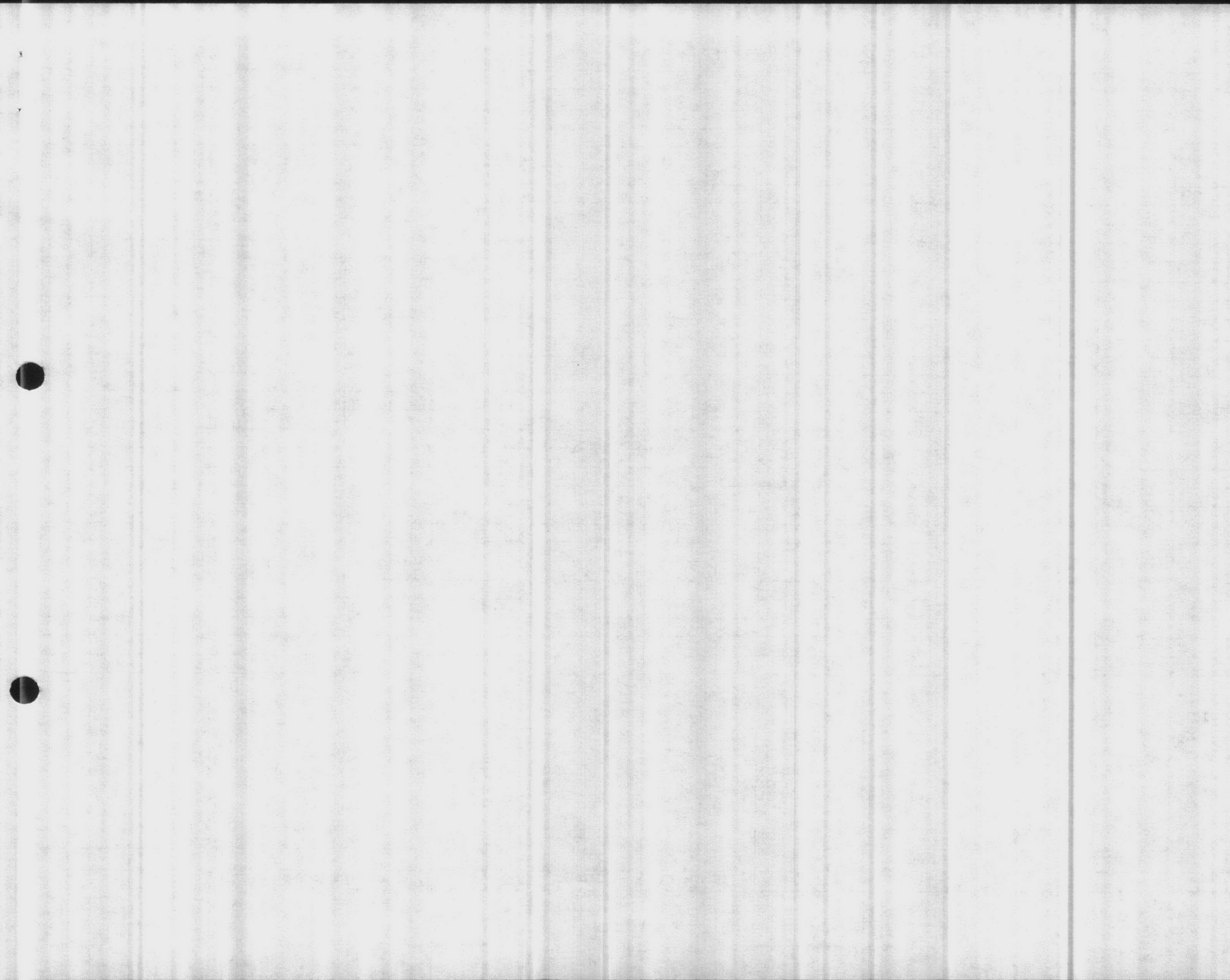
SERIAL # 04-67-048

N. C. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	FINISHED	TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	DISTRIBUTION SYSTEM										INCUBATOR TEMP.	PLANKTON RAW WATER
	A			B			C									COLIFORMS (MFP)					REPEAT SAMPLES						
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES							1	2	3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.		
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MF MEDIA				DACTERIAL DENSITY		ARITH. MEAN								0		1		DIST. SYSTEM		TOTAL NO. SAMPLES		8					
TPC MEDIA						GEO. MEAN														SAMPLES EXCEEDING 3/50 (4/100, 7/200, 13/500ml)		0					

Laboratory Cert. 37807

Signed [Signature] Cert. Grade B WELL No. 4087-W



ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT
 CHEMICAL ANALYSIS - WATER TREATMENT PLANTS
 MC8CL 11330/3 (REV 7-87)

DATE COLLECTED

10-6-87

DATE(S) ANALYZED

10-6-87

PLANT PARAMETER (UNITS)	HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMB BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ON SLOW BEACH 04-67-048			
pH-LABORATORY	8.3	8.8	8.7	7.8	8.3	7.7			
STABILITY	+0.3	+0.3	+0.3	-0.5	-0.1	-0.5			
PHENOLTHALEIN ALKALINITY (PPM)	0	8	4	0	2	0			
METHYL ORANGE ALKALINITY (PPM)	74	138	62	172	144	166			
CARBONATES AS CaCO ₃ (PPM)	0	16	8	0	4	0			
BICARBONATES AS CaCO ₃ (PPM)	74	122	54	172	140	166			
CHLORIDES AS Cl (PPM)	12	66	12	16	18	14			
HARDNESS AS CaCO ₃ (PPM)	78	60	68	60	92	70			
IRON AS Fe (PPM)									
FLUORIDE (PPM)	AM / PM 0.83 / 0.84	0.42	0.94 / 0.98	0.09	0.08	0.13			
TURBIDITY (NTU)	AM / PM 0.7 / 0.5	1.3	0.8 / 1.4	0.9	0.8	2.6			
CHLORINE RESIDUAL (PPM)	1.0	1.0	1.0	1.4	1.0	1.2			

REMARKS:

COPY TO:

UTIL DIR, BMD

WATER TREATMENT, UTIL DIV, BMD

PMU, NAYHOSP PMU, MCAS-NR

DIVISION OF HEALTH SERVICES
 N.C. DEPT OF HUMAN RESOURCES

NREAD

FILE (ATTACH WKST)

REPORT DATE:

10-7-87

REPORT PREPARED BY:

ROBERT G. DEPPEN



ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT
 CHEMICAL ANALYSIS - WATER TREATMENT PLANTS
 MC8CL 11330/3 (REV 7-87)

DATE COLLECTED
 10-13-87

DATE(S) ANALYZED
 10-13-87

PLANT PARAMETER (UNITS)	HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMB BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ONSLow BEACH 04-67-048		
pH-LABORATORY	8.7	8.5	8.5	7.6	8.2	7.5		
STABILITY	+0.4	+0.3	+0.4	-0.4	0.0	-0.5		
PHENOLTHALBIN ALKALINITY (PPM)	4	10	2	0	2	0		
METHYL ORANGE ALKALINITY (PPM)	50	130	60	170	146	154		
CARBONATES AS CaCO ₃ (PPM)	8	20	4	0	4	0		
BICARBONATES AS CaCO ₃ (PPM)	42	110	56	170	142	154		
CHLORIDES AS Cl (PPM)	12	70	12	14	32	24		
HARDNESS AS CaCO ₃ (PPM)	68	46	64	50	50	50		
IRON AS Fe (PPM)								
FLUORIDE (PPM)	AM 1.14 PM 1.21	0.67	1.18 1.28	0.14	0.12	0.17		
TURBIDITY (NTUS)	AM 0.7 PM 2.2	1.9	1.1 1.9	0.6	0.7	0.7		
CHLORINE RESIDUAL (PPM)	1.0	1.0	1.2	1.3	0.9	1.3		

REMARKS:

COPY TO:

- UTIL DIR, BMD _____
- WATER TREATMENT, UTIL DIV, BMD
- PMU, NAVHOSP PMU, MCAS-NR
- DIVISION OF HEALTH SERVICES
 N.C. DEPT OF HUMAN RESOURCES

REPORT DATE:

10-14-87

REPORT PREPARED BY:

H. J. BURNS

NREAD

FILE (ATTACH WKST)



ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT
 CHEMICAL ANALYSIS - WATER TREATMENT PLANTS
 MCBCL 11330/3 (REV 7-87)

DATE COLLECTED

10-20-87

DATE(S) ANALYZED

10-20-87

PLANT PARAMETER (UNITS)	HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMB BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ONSLow BEACH 04-67-048		
pH-LABORATORY	8.7	8.5	8.5	7.6	8.2	7.4		
STABILITY	+0.4	+0.1	+0.3	-0.5	-0.1	-0.3		
PHENOLTHALEIN ALKALINITY (PPM)	6	8	4	0	0	0		
METHYL ORANGE ALKALINITY (PPM)	60	136	56	160	144	160		
CARBONATES AS CaCO ₃ (PPM)	12	16	8	0	0	0		
BICARBONATES AS CaCO ₃ (PPM)	48	120	48	160	144	160		
CHLORIDES AS Cl (PPM)	16	70	14	16	48	20		
HARDNESS AS CaCO ₃ (PPM)	64	46	64	50	52	80		
IRON AS Fe (PPM)								
FLUORIDE (PPM)	AM PM	0.61	1.06 1.15	0.15	0.11	0.15		
	0.94 1.00							
TURBIDITY (NTUS)	AM PM	0.8	0.9 1.4	0.7	0.5	9.0		
	0.5 0.5							
CHLORINE RESIDUAL (PPM)	1.0	1.0	1.2	1.0	0.8	1.1		

REMARKS:

COPY TO:

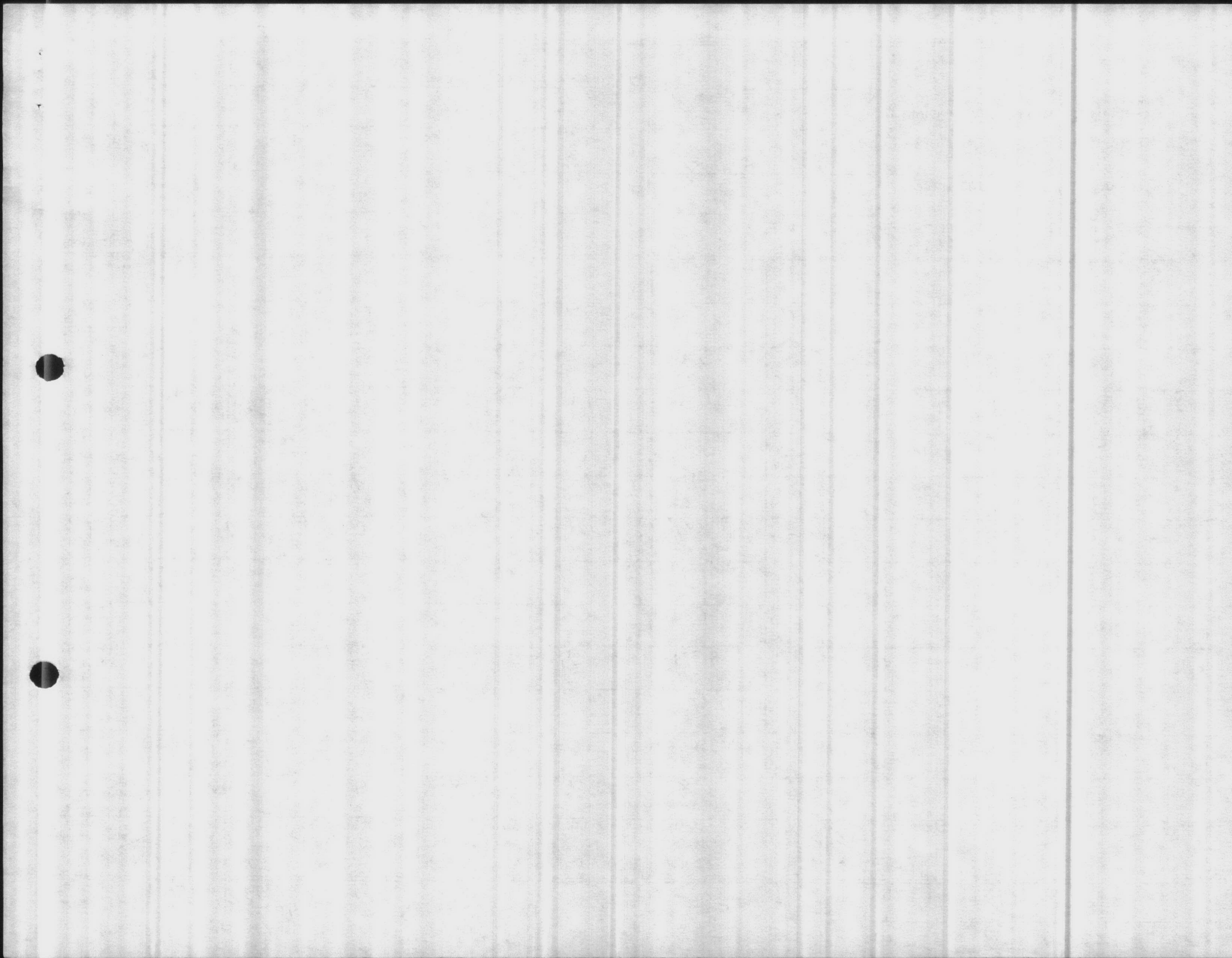
- UTIL Div, BMD _____
- WATER TREATMENT, UTIL Div, BMD
- PMU, NAVHOSP PMU, MCAS-NR
- DIVISION OF HEALTH SERVICES
 N.C. DEPT OF HUMAN RESOURCES
- NREAD FILE (ATTACH WKST)

REPORT DATE:

10-20-87

REPORT PREPARED BY:

H.J. BURNS



ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT
 CHEMICAL ANALYSIS - WATER TREATMENT PLANTS
 MC8CL 11330/3 (REV 7-87)

DATE COLLECTED

10-27-87

DATE(S) ANALYZED

10-27-87

PLANT PARAMETER (UNITS)	HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMB BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ONSLow BEACH 04-67-048		
pH-LABORATORY	8.6	8.6	8.5	7.9	8.3	7.6		
STABILITY	+0.5	+0.1	+0.4	-0.3	-0.1	-0.4		
PHENOLTHALEIN ALKALINITY (PPM)	2	10	2	0	0	0		
METHYL ORANGE ALKALINITY (PPM)	50	130	66	156	156	150		
CARBONATES AS CaCO ₃ (PPM)	4	20	4	0	0	0		
BICARBONATES AS CaCO ₃ (PPM)	46	110	62	156	156	150		
CHLORIDES AS Cl (PPM)	16	80	20	18	38	26		
HARDNESS AS CaCO ₃ (PPM)	58	50	72	58	58	96		
IRON AS Fe (PPM)								
FLUORIDE (PPM)	AM PM	0.64	1.02 1.12	0.16	0.14	0.17		
	1.01 1.08							
TURBIDITY (NTUS)	AM PM	0.9	0.6 0.8	1.2	0.7	0.4		
	0.6 0.6							
CHLORINE RESIDUAL (PPM)		1.1	1.2	1.0	1.0	1.5		

REMARKS:

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