

11331
NREAD
2 Oct 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 1-30 September 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. Bets, 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:
LANTNAVPACENCOM (Code 114)

Blind copy to:
BMO (Attn: Util Dir)
Supvy Chem (2)

Writer/Typist Betz / Trinidad
Date Typed 2 Oct 87
Word Processor Number 11331

Office of Health Services
Division of Health Services
State of California
Sacramento, California

The purpose of this report is to provide information regarding the health status of the population of the State of California. The data presented in this report are based on a survey of the health status of the population of the State of California conducted in 1965.

The survey was conducted by the Division of Health Services, State of California, and the results are presented in this report. The survey was conducted in 1965 and the results are presented in this report. The survey was conducted by the Division of Health Services, State of California, and the results are presented in this report.

Word Processor Number: 1001
Date: 1/1/68
Author: [Signature]

Month SEPTEMBER
Year 1987

HADNOT POINT WATER TREATMENT PLANT AT Camp Lejeune

Method Code:
Contaminant Code:

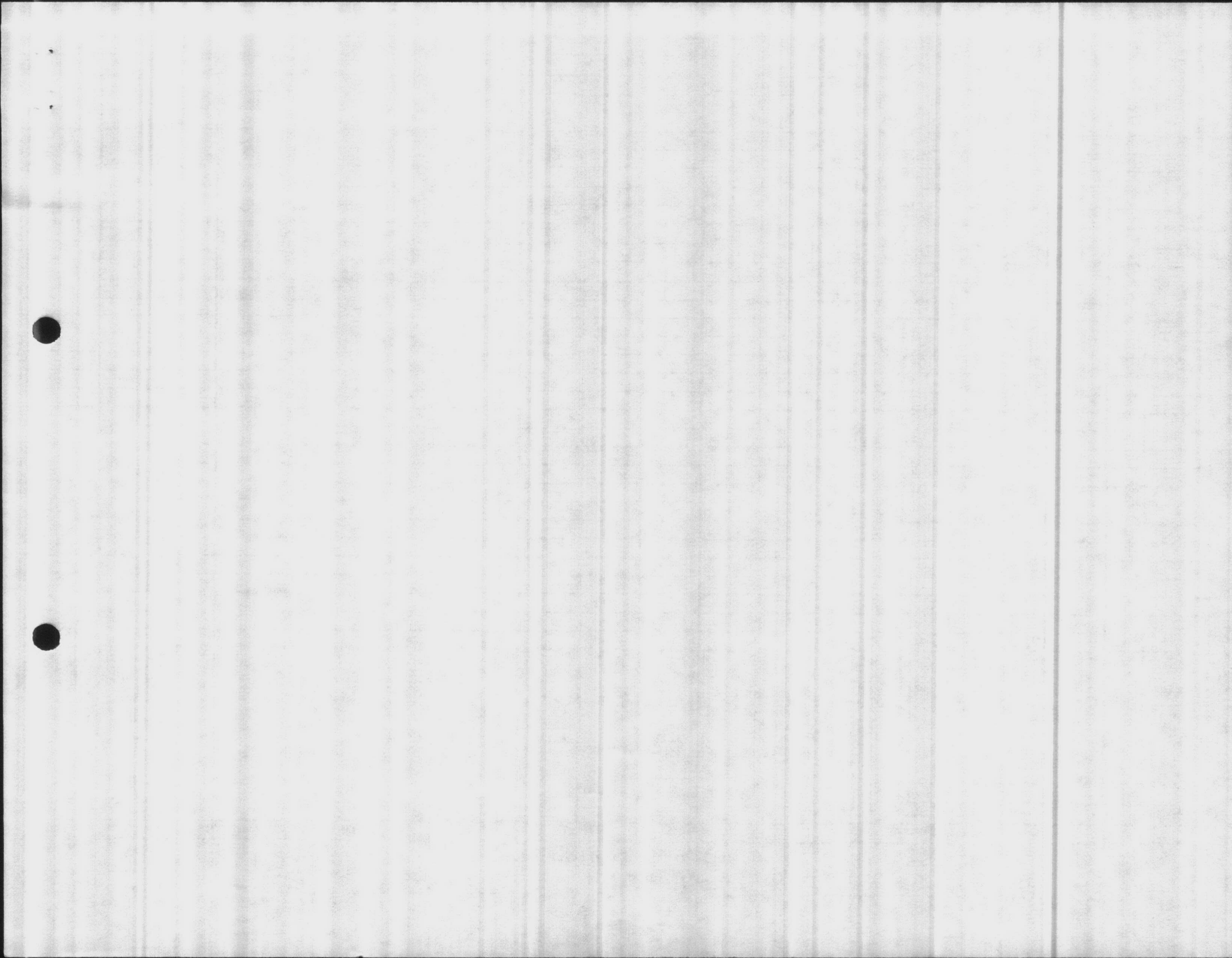
ENCLOSURE 3000

Serial # 04-67-041
REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
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	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	INCUBATOR TEMP.				
	A		B		C								COLIFORMS (MFP)													
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES							1	2	3	4	5									
7/15											0	9	0	0	0	0	0									35.2
7/18											0	8	0	0	0	0	10	10								35.2
7/16											0	9	0	0	10	0	0	0								35.5
7/22											0	9	0	0	0	0	0	0								35.5
7/21											0	9	0	0	0	0	10									35.2
HF MEDIA BBL mEndo BACTERIAL DENSITY ARITH. MEAN GEO. MEAN												0	TOTAL FC. SAMPLES					44								
TPC MEDIA												1	SAMPLES EXCEEDING 3/50. (4/100. 7/200. 13/500) ml					0								

LAB ID # 37807

CERT GRADE: R-WELL # 4087-W



Month SEPTEMBER
Year 1987

COURTHOUSE BAY

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

Serial # 04-67-047

U. S. DEPARTMENT OF HUMAN RESOURCES

ENCLOSURE 303 3000

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	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.		COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.
7/19														0	4	0	0	0										35.2
7/27														0	4	10	0	0	0									35.2
7/15														0	4	10	10	0	0									35.4
7/22														0	4	0	0	0	0									35.5
7/29														0	4	0	0	0		0								35.2
	HF MEDIA			BBL mEndo			BACTERIAL DENSITY			ARTH. MEAN				0	DIST. SYSTEM		TOTAL NO. SAMPLES							20				
	TPC MEDIA									GEO. MEAN				1			SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500=1							0				

LAR TR # 27807



Month SEPTEMBER
Year 1987

ONSLow BEACH

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

Serial # 04-67-048

N. C. DEPARTMENT OF HUMAN RESOURCES

ENCLOSURE (1)

DATE	RAW WATER COLIFORMS (MFP)								NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (MFP)					REPEAT SAMPLES			INCUBATOR TEMP.	
	A		B		C		1	2				3	4	5	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.				
	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES												AVE. COLIFORMS per 100 ml.	NO. OF SAMPLES EXAMINED		COLIFORMS per 100 ml.
1	2.5											0	2	0	0	0	0	0	0	0	35.2
2																					
3																					
4																					
5																					
6																					
7	7																				
8	8 TH											0	2	0	0	0	0	0	0	0	35.2
9																					
10																					
11																					
12																					
13																					
14																					
15	15 TH											0	2	0	0	0	0	0	0	0	35.4
16																					
17																					
18																					
19																					
20																					
21																					
22	22 TH											0	2	0	0	0	0	0	0	0	35.5
23																					
24																					
25																					
26																					
27																					
28																					
29	29 TH											0	2	0	0	0	0	0	0	0	35.2
30																					
31																					
HF MEDIA		BRI mEndo		BACTERIAL DENSITY		ARITH. MEAN						0	DIST. SYSTEM		TOTAL NO. SAMPLES						10
TPC MEDIA						GEO. MEAN						1			SAMPLES EXCEEDING 3/50.		(4/100)		7/200. 13/500ml		0



Month SEPTEMBER
Year 1987

RIFLE RANGE

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

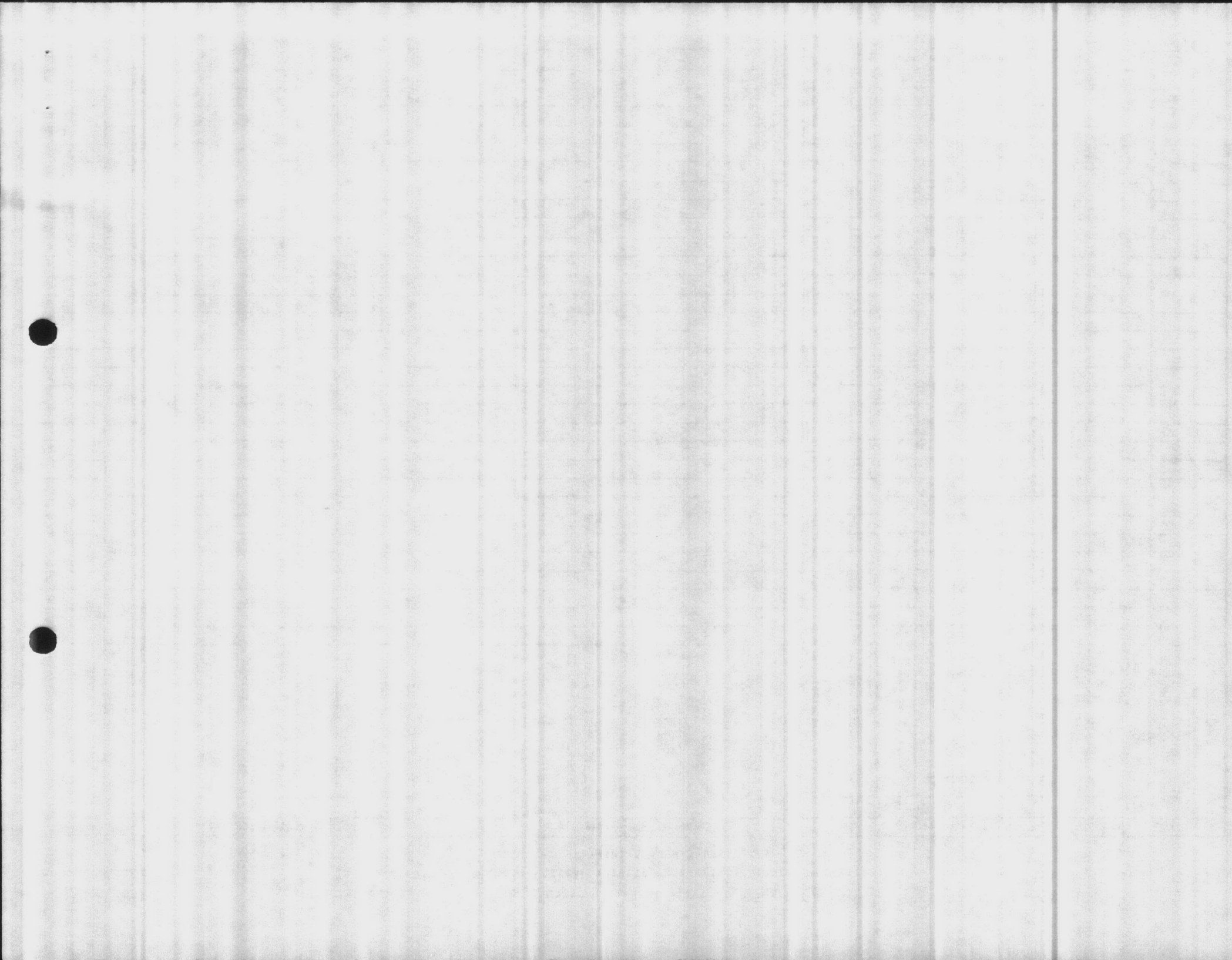
Contaminant Code: 9000

Serial # 04-67-046

U. S. DEPARTMENT OF HUMAN RESOURCES

DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	FILTERED		FINISHED		DISTRIBUTION SYSTEM					REPEAT SAMPLES	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)														
	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								
1	7 1st													0	3	0	0					35.2								
2																														
3																														
4																														
5																														
6																														
7																														
8	7 8th													0	3	0	0						35.2							
9																														
10																														
11																														
12																														
13																														
14																														
15	7 15th													0	3	0	0						35.6							
16																														
17																														
18																														
19																														
20																														
21																														
22	7 22nd													0	3	0	0	1					35.5							
23																														
24																														
25																														
26																														
27																														
28																														
29	7 29th													0	3	0	0	0					35.2							
30																														
31														0																
MFP MEDIA														BBI mEndo		BACTERIAL DENSITY		ARITH. MEAN				0		DIST. TOTAL NO. SAMPLES					15	
TPC MEDIA																						1		SYSTEM SAMPLES EXCEEDING 3/50. (4/100). 7/200. 13/500=1					0	

ENCLOSURE



Month SEPTEMBER
 Year 1987

CAMP JOHNSON

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

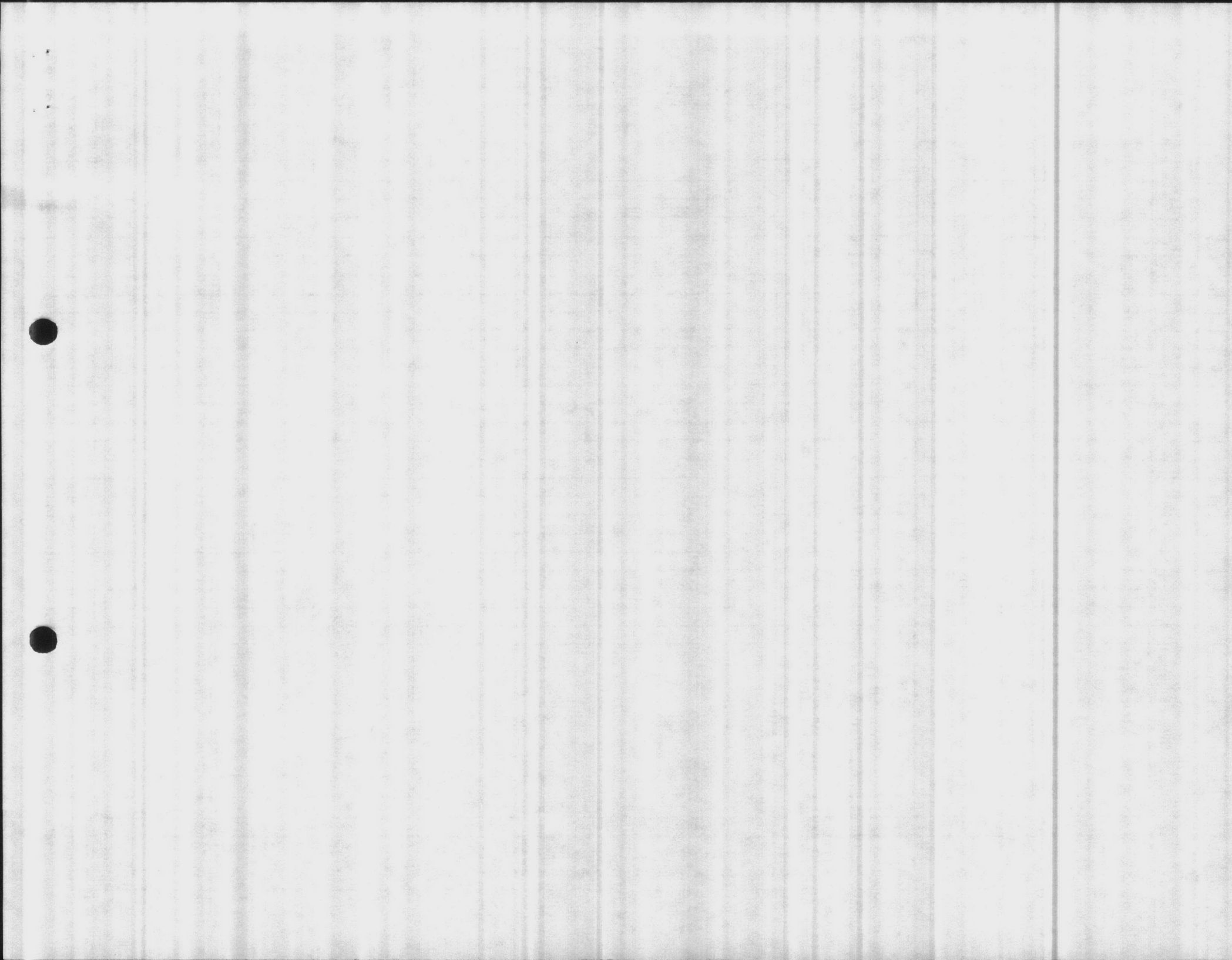
Contaminant Code: 3000

Serial # 04-67-045

U. S. DEPARTMENT OF HUMAN RESOURCES

ENCLOSURE 111

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 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.
7/1																0	2	0	0	0	0				35.2
8/7																0	2	0	0	0	0				35.2
15/5																0	2	0	0	0	0				35.6
22/22																0	2	0	0	0	0				35.5
29/29																0	2	0	0	0	0				35.2
31	MFP MEDIA			BBL mEndo			BACTERIAL DENSITY			ARITH. MEAN			GEO. MEAN			0	DISTR. SYSTEM					TOTAL NO. SAMPLES			10
	TPC MEDIA															1						SAMPLES EXCEEDING 3/50, (4/100), 7/200, 13/500=1			0



Month SEPTEMBER
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

Serial # 04-67-044

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.	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							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.					
7 ^{1ST}															0	4	0/0	0/0													35.2
8															0	4	0/0	0/0													35.2
8 ^{5TH}															0	4	0/0	0/0													35.2
15															0	4	0/0	0/0													35.6
15 ^{15TH}															0	4	0/0	0/0													35.5
22															0	4	0/0	0/0													35.2
22 ^{22ND}															0	4	0/0	0/0													35.2
29															0	4	0/0	0/0													35.2
29 ^{29TH}															0	4	0/0	0/0													35.2
31															0	4	0/0	0/0													35.2
	MFP MEDIA			BBL mEndo			BACTERIAL DENSITY			ARITH. MEAN			GEO. MEAN			0		1		RIST. SYSTEM		TOTAL NO. SAMPLES					20				
	TPC MEDIA																				SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500=1					0					

TERRACE



Month SEPTEMBER
Year 1987

WATER TREATMENT PLANT AT Camp Lejeune
REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
N. C. DEPARTMENT OF HUMAN RESOURCES

Method Code: 303
Contaminant Code: 3000

Serial # 04-67-043

ENCLOSURE (4)

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.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM					REPEAT SAMPLES			INCUBATOR TEMP.	
	A		B		C		COLIFORMS (MFP)																		
	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.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.		
7/15														0	7	0	0	0	0	0				35.2	
7/16														0	7	0	0	0	0	0				35.2	
7/16														0	7	0	0	10	10		10			35.5	
7/22														0	7	0	0	0	10		0			35.5	
7/29														0	7	0	0	10	0	0	0	0			35.2
															0	1	TOTAL NO. SAMPLES								35
															1		SAMPLES EXCEEDING 3/50					4/100, 7/200, 13/500ml			0

LAB ID # 37807

4097 61



Month SEPTEMBER
Year 1987

MARINE CORPS AIR STATION

WATER TREATMENT PLANT AT Camp Lejeune

Method Code: 303

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

Contaminant Code: 3000

Serial # 04-67-042

U. S. DEPARTMENT OF HUMAN RESOURCES

ENCLOSURE

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					REPEAT SAMPLES		INCUBATOR TEMP.											
	A		B		C								COLIFORMS (MFP)																		
	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.									
1	767											0	7	0	0	0	0				35.2										
2																															
3																															
4																															
5																															
6																															
7																															
8	787												0	7	0	0	10	0	0	10	0		35.2								
9																															
10																															
11																															
12																															
13																															
14																															
15	715												0	7	0	0	10	0	0	10	10		35.4								
16																															
17																															
18																															
19																															
20																															
21																															
22	722												0	7	0	0	10	0	0	10			35.5								
23																															
24																															
25																															
26																															
27																															
28																															
29	729												0	7	0	0	10	0	0	10			35.2								
30																															
31																															
												0	DISTR. SYSTEM		TOTAL NO. SAMPLES							28									
MF MEDIA												BBL mEndo		BACTERIAL DENSITY		ARTH. MEAN		GEO. MEAN													
TPC MEDIA																				SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500=1 0											



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

DATE COLLECTED: 9-29-87
 DATE(S) ANALYZED: 9-29-87

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	9.0	8.9	8.7	8.0	8.5	7.8			
STABILITY	+0.8	+0.2	+0.5	-0.3	+0.1	-0.4			
PHENOLTHALEIN ALKALINITY (PPM)	8	14	2	0	4	0			
MET. ORANGE ALKALINITY (PPM)	64	144	76	172	174	148			
CARBONATES AS CaCO ₃ (PPM)	16	28	4	0	8	0			
BICARBONATES AS CaCO ₃ (PPM)	48	116	72	172	166	148			
CHLORIDES AS Cl (PPM)	20	92	18	22	26	30			
HARDNESS AS CaCO ₃ (PPM)	94	50	82	80	54	52			
IRON AS Fe (PPM)									
FLUORIDE (PPM)	AM/PM 0.89/1.03	0.58	1.23/1.42	0.10	0.08	0.17			
TURBIDITY (NTUS)	AM/PM 0.6/0.9	0.9	0.9/1.2	0.9	0.8	1.2			
CHLORINE RESIDUAL (PPM)	1.0	1.0	1.1	1.0	1.0	1.7			

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:
9-29-87

REPORT PREPARED BY:
CAROL S. SHORIS

- NREAD
- FILE (ATTACH WKST)



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

DATE COLLECTED: 9-22-87
 DATE(S) ANALYZED: 9-22-87

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	8.3	8.9	8.8	8.3	8.3	7.9			
STABILITY	0.0	+0.1	+0.3	-0.1	-0.2	-0.3			
PHENOLTHALEIN ALKALINITY (PPM)	0	6	2	0	4	0			
METHYLOANGE ALKALINITY (PPM)	60	138	56	172	180	170			
CARBONATES AS CaCO ₃ (PPM)	0	12	4	0	8	0			
BICARBONATES AS CaCO ₃ (PPM)	60	126	52	172	172	170			
CHLORIDES AS Cl (PPM)	16	68	14	18	40	22			
HARDNESS AS CaCO ₃ (PPM)	76	50	60	74	64	56			
IRON AS Fe (PPM)									
FLUORIDE (ppm)	AM PM 0.98 1.02	0.49	1.16 1.16	0.11	0.09	0.12			
TURBIDITY (NTUS)	AM PM 1.4 0.6	0.8	1.3 1.1	0.7	0.8	0.9			
CHLORINE RESIDUAL (PPM)	1.0	1.0	1.5	1.3	1.1	1.4			

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
 - NREAD
 - FILE (ATTACH WKST)

REPORT DATE: 9-22-87

REPORT PREPARED BY: ROBERT G. DEPPEN



ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY LABORATORY REPORT
 CHEMICAL ANALYSIS - WATER TREATMENT PLANTS
 MCBCL 11350/3 (REV 7-87)

DATE COLLECTED

9-15-87

DATE(S) ANALYZED

9-15-87

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	8.0	8.5	8.0	7.9	7.8	7.6			
STABILITY	+0.2	+0.1	0.0	-0.1	-0.2	-0.3			
PHENOLTHALEIN ALKALINITY (PPM)	0	6	0	0	0	0			
METHYLOANGE ALKALINITY (PPM)	76	130	72	170	174	160			
CARBONATES AS CaCO ₃ (PPM)	0	12	0	0	0	0			
BICARBONATES AS CaCO ₃ (PPM)	76	118	72	170	174	160			
CHLORIDES AS Cl (PPM)	4	52	6	12	32	16			
HARDNESS AS CaCO ₃ (PPM)	70	58	86	76	68	94			
IRON AS Fe (PPM)									
FLUORIDE (PPM)	AM PM 1.0 1.1	0.52	1.04 0.90	0.12	0.10	0.11			
TURBIDITY (NTUS)	AM PM 0.4 0.4	0.8	0.5 0.6	0.4	0.4	0.7			
CHLORINE RESIDUAL (PPM)	1.0	0.1	1.2	1.3	1.0	1.1			

ENCLOSURE 10

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
 - NREAD FILE (ATTACH WKST)

REPORT DATE:
9-16-87

REPORT PREPARED BY:
ROBERT G. DEPPEN



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

DATE COLLECTED
9-8-87

DATE(S) ANALYZED
9-8-87

ENCLOSURE

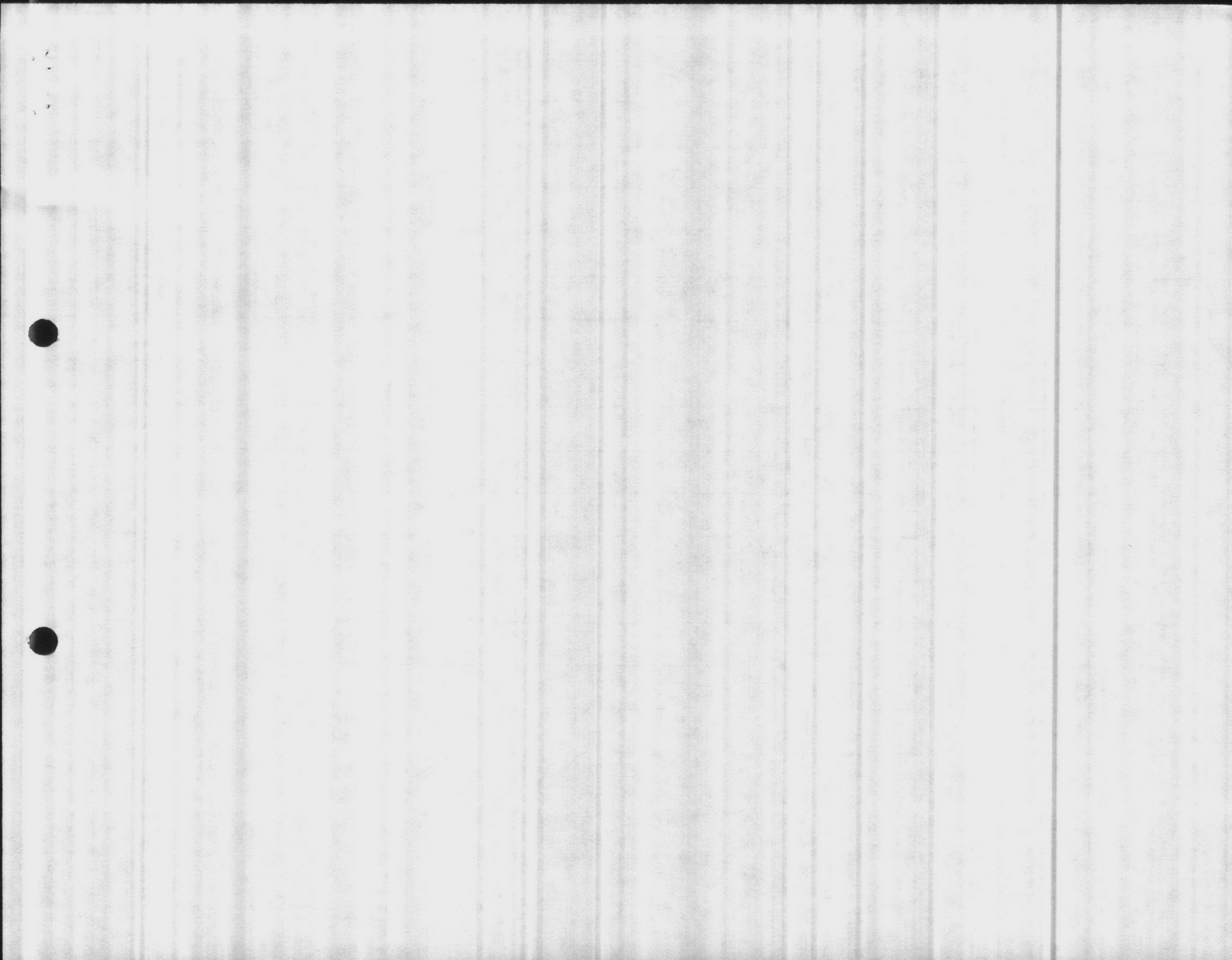
PLANT PARAMETER (UNITS)	HADNOT POINT 04-67-041	MCAS NEW RIVER 04-67-042	HOLCOMP BLVD 04-67-043	COURTHOUSE BAY 04-67-046	RIFLE RANGE 04-67-047	ONSLOW BEACH 04-67-048			
pH-LABORATORY	8.2	8.8	8.8	7.9	8.2	7.5			
STABILITY	+0.1	+1.1	+0.7	-0.3	0.0	-0.6			
PHENOLTHALEIN ALKALINITY (PPM)	0	6	4	0	0	0			
METHYL ORANGE ALKALINITY (PPM)	64	104	64	168	168	162			
CARBONATES AS CaCO ₃ (PPM)	0	12	8	0	0	0			
BICARBONATES AS CaCO ₃ (PPM)	64	92	56	168	168	162			
CHLORIDES AS Cl (PPM)	8	50	12	16	40	24			
HARDNESS AS CaCO ₃ (PPM)	68	52	68	70	58	48			
IRON AS Fe (PPM)									
FLUORIDE (PPM)	AM PM	0.5	0.96 1.3	0.13	0.10	0.12			
	0.92 1.1								
TURBIDITY (NTUS)	AM PM	0.7	0.4 0.4	0.4	0.3	1.8			
	0.3 0.4								
CHLORINE RESIDUAL (PPM)	1.0	0.8	1.1	1.3	0.6	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:
9-8-87

REPORT PREPARED BY:
ROBERT G. DEPPEN



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

DATE COLLECTED: 9-1-87
 DATE(S) ANALYZED: 9-1-87

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	8.2	8.8	8.8	8.2	8.4	7.7			
STABILITY	-0.2	+0.1	+0.4	-0.3	-0.1	-0.8			
PHENOLTHALEIN ALKALINITY (PPM)	0.0	16	18	0	2	0			
METHYLOANGE ALKALINITY (PPM)	66	142	72	184	184	172			
CARBONATES AS CaCO ₃ (PPM)	0	32	36	0	4	0			
BICARBONATES AS CaCO ₃ (PPM)	66	110	36	184	180	172			
CHLORIDES AS Cl (PPM)	14	64	16	18	46	26			
HARDNESS AS CaCO ₃ (PPM)	90	72	112	86	74	82			
IRON AS Fe (PPM)									
FLUORIDE (PPM)	AM PM 0.12 0.15	0.52	0.33 0.31	0.11	0.09	0.14			
TURBIDITY (NTUS)	AM PM 0.7 0.3	0.6	1.0 0.6	0.3	0.5	2.8			
CHLORINE RESIDUAL (PPM)	1.0	0.9	1.2	1.7	1.0	1.2			

REMARKS:

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 - PMU, NAVHOSP PMU, MCAS-NR
 - DIVISION OF HEALTH SERVICES
N.C. DEPT OF HUMAN RESOURCES

REPORT DATE:
9-1-87

REPORT PREPARED BY:
CAROL S. SHORES

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