

11330/1
NREAD
5 Nov 1984

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 1984. 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 Quality Control Laboratory located in the Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities. Ms. Elizabeth Betz, Supervisory Chemist, Quality Control Laboratory, telephone (919) 451-5977 is the point of contact in this matter.

Sincerely,

J. I. WOOTEN
Director

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

Copy to:
LANTDIV (Code 114)

Blind copy to:
BMO (Attn: UtilDir)

SupvChem

Writer: E. Betz, NREAD, 5977
Typist: J. Cross, 5Nov84

CLW

0000004418

SERIAL # 04-67-041

DATE	RAW WATER COLIFORMS (MFP)						NO. OF COLIFORMS PER 100 ml.	FILTERED		FINISHED		DISTRIBUTION SYSTEM					INCREASING 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	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.	
1																					
2	SW											0	9	0	0	0	0	0	0	0	35
5																					
6																					
7																					
8																					
9	SW											0	9	0	0	0	0	0	0	0	35
10														0							
11																					
12																					
13																					
14																					
15																					
16	SW											0	9	0	0	0	0			0	35
17														0	0						
18																					
20																					
21																					
22																					
23	SW											0	9	0	0	0	0			0	35
24															0	0					
25																					
26																					
27																					
29																					
29																					
30	SW											0	9	0	0	0	0			0	35
31														0	0						
HF MEDIA	BBL M-ENDO		DACTERIAL DENSITY	ARITH. MEAN														15			
TPC MEDIA				GEO. MEAN	CLW 0000004419													0			
												DIST. SYSTEM	TOTAL NO. SAMPLES					SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml			0

Anal(1)

Month OCTOBER

WARREN COLDS AIR STATION WATER TREATMENT PLANT AT LAKEVIEW

METHOD CODE: 300

Year 1984

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

CONTAMINANT CODE: 3000

N. C. DEPARTMENT OF HUMAN RESOURCES

SERIAL # 04-67-042

DATE	RAW WATER COLIFORMS (HFP)						NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (HFP)					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														COLIFORMS per 100 ml.
1																				
2											0	7	0	0	0	0	0			35.5
3																				
4																				
5																				
6																				
7																				
8																				
9											0	7	0	0	0	0	0	0	0	35.5
10																				
11																				
12																				
13																				
14																				
15																				
16											0	7	0	0	0	0	0	0	0	35.0
17																				
18																				
19																				
20																				
21																				
22																				
23											0	7	0	0	0	0	0	0	0	35.5
24																				
25																				
26																				
27																				
28																				
29																				
30											0	7	0	0	0	0	0	0	0	35.5
31																				
MF MEDIA	BBL M-ENDO						DACTERIAL DENSITY	ARITH. MEAN				0	DIST. SYSTEM	TOTAL NO. SAMPLES					35	
TPC MEDIA								GEO. MEAN				10		SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml					0	

GLW
000004420

Month 11/05/54
 Year 1954

FALLOUTS DIV.

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

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					COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	INCUBATOR TEMP.								
	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					1	2	3					
1																													
2													0	7	0	0	0	0	0					35.0					
3																													
4																													
5																													
6																													
7																													
8																													
9													0	7	0	0	0	0	0						35.0				
10																													
11																													
12																													
13																													
14																													
15																													
16													0	7	0	0	0	0	0							35.0			
17																													
18																													
19																													
20																													
21																													
22																													
23													0	7	0	0	0	0	0								35.0		
24																													
25																													
26																													
27																													
28																													
29																													
30													0	7	0	0	0	0	0								35.0		
31																													
CLW																													
000000442																													
RF MEDIA												0	TOTAL NO. SAMPLES								35								
TPC MEDIA												1.0	SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml								0								
BBL M-ENDO						BACTERIAL DENSITY		ARITH. MEAN		GEO. MEAN																			

Month OCTOBER
 Year 1984

JARAWA TERRACE

WATER TREATMENT PLANT AT CAMP LEJEUNE

INSTRUM CODE: 505
 CONTAMINANT CODE: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
 N. C. DEPARTMENT OF HUMAN RESOURCES

SERIAL # 04-67-044

DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER. 100 ml.	FILTERED TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	FINISHED TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (MFP)					REPEAT SAMPLES			INCUBATOR TEMP.							
	A			B			C									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.					
	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES									COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.	COLIFORMS per 100 ml.									
1																															
2																														36.5	
3																															
4																															
5																															
6																															
7																															
8																															
9																															36.5
10																															
11																															
12																															
13																															
14																															
15																															
16																															
17																															36.0
18																															
19																															
20																															
21																															
22																															
23																															35
24																															
25																															
26																															
27																															
28																															
29																															
30																															35.5
31																															

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 0000004422

HF MEDIA	BAL M- ENDO	BACTERIAL DENSITY	ARITH. MEAN	TOTAL NO. SAMPLES	15
TPC MEDIA		GEO. MEAN		SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml	0

Month OCTOBER
Year 1984

CAMP JOHNSON

WATER TREATMENT PLANT AT CAMP JOHNSON

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

CONTAMINANT CODE: 3000

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.	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.		
1																					
2	W										0	3									35.5
5																					
6																					
7																					
8																					
9	W										0	3									35.5
10	W																				
11																					
12																					
13																					
14																					
15																					
16	W										0	3									35.5
17	W																				
18																					
20																					
21																					
22																					
23											0	3									35.5
24	W																				
25																					
26																					
27																					
29																					
29																					
30																					
31	W										0	3									35.5
													TOTAL NO. SAMPLES					SAMPLES EXCEEDING 3/50. 4/100 7/200. 13/500ml			15
NF MEDIA		BBL M-ENDO		BACTERIAL DENSITY		ARITH. MEAN								DISTR. SYSTEM							
TPC MEDIA						GEO. MEAN															0
											0000004423										

CLW

Month OCTOBER
Year 1984

RIFLE RANGE

WATER TREATMENT PLANT AT LAJUMP

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

CONTAMINANT CODE: 3000

N. C. DEPARTMENT OF HUMAN RESOURCES

SERIAL # 04-67-040

DATE	RAW WATER COLIFORMS (HFP)									NO. OF COLIFORMS PER. 100 ml.	TOTAL PLATE COUNT	HFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	HFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM COLIFORMS (HFP)					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	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES	VOLUME FILTERED ml.	TOTAL COLONIES	COLIFORM COLONIES																
																									COLIFORMS per 100 ml.
1																									
2														0	3	0	0	0							35.5
3																									
4																									
5																									
6																									
7																									
8																									
9														0	3	0	0		0						35.5
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16														0	3	0	0								35.0
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21																									
22																									
23														0	3	0	0								35.5
24																									
25																									
26																									
27																									
28																									
29																									
29																									
30														0	3	0	0								35.5
31																									
HF MEDIA	BBL M-ENDO			DACTERIAL DENSITY	ARTH. MEAN		GEO. MEAN							0	DIST. SYSTEM	TOTAL NO. SAMPLES					15				
TPC MEDIA														10		SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml					0				

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0000004424

Month OCTOBER
 Year 1984

COURTHOUSE DAY WATER TREATMENT PLANT AT LATTI
 REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
 N. C. DEPARTMENT OF HUMAN RESOURCES

CONTAMINANT CODE: 3000

SERIAL # 04-67-047

DATE	RAW WATER COLIFORMS (MFP)									NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	FINISHED TOTAL PLATE COUNT	MFP COLIFORMS per 100 ml.	TOTAL PLATE COUNT	DISTRIBUTION SYSTEM											INCUBATOR TEMP.				
	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	ON 3/5	ON 1/1									
1																															
2																									35.5						
3																															
4																															
5																															
6																															
7																															
8																															
9																									35.5						
10																															
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14																															
15																															
16																									35.0						
17																															
18																															
19																															
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21																															
22																															
23																									35.5						
24																															
25																															
26																															
27																															
28																															
29																															
30																									35.5						
31																															
HF MEDIA	<u>BBL M-ENDO</u>			DACTERIAL DENSITY	ARITH. MEAN																										
TPC MEDIA					GEO. MEAN																										
														AVE. COLIFORMS per 100 ml.	NO. OF SAMPLES EXAMINED	TOTAL NO. SAMPLES					SAMPLES EXCEEDING 3/50. (4/100) 7/200. 13/500ml										
														0.75	4	20					0										
														0.15																	
														100																	

CLW
 0000004425

Month OCTOBER
Year 1984

WINDY BEACH

WATER TREATMENT PLANT AT L'AMPE LÉVEUNE

Method Code: 303
CONTAMINANT CODE: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES
N. C. DEPARTMENT OF HUMAN RESOURCES

SERIAL # 04-67-048

DATE	RAW WATER COLIFORMS (HFP)									NO. OF COLIFORMS PER 100 ml.	FILTERED TOTAL PLATE COUNT	FINISHED TOTAL PLATE COUNT	DISTRIBUTION SYSTEM										INCUBATOR TEMP.			
	A			B			C						COLIFORMS (HFP)					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	1	2	3	4	5				
1																										
2														0	N	0	0								35.5	
5																										
6																										
7																										
8																										
9														0	N	0		0							35.5	
10																										
11																										
12																										
13																										
14																										
15																										
16														0	N	0			0						35.5	
17																										
18																										
20																										
21																										
22																										
23														0	N	0			0						35.5	
24																										
25																										
26																										
27																										
28																										
29																										
29																										
30														0	N	0			0						35.5	
31																										
HF MEDIA	BBL M-ENDO									BACTERIAL DENSITY	ARITH. MEAN															
TPC MEDIA														1.0	DIST. SYSTEM	TOTAL NO. SAMPLES										10
														SAMPLES EXCEEDING 3/50, (4/100) 7/200, 13/500ml										0		

CLW
000004420

2 OCTOBER 1984

PARAMETER SERIAL #04-67	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042
PH (IN LAB NOT PLANT)	8.9	7.3	8.7	7.4	8.5	8.3	9.0	8.6
PENOLTHALEIN ALKALINITY	6	0	2	0	4	0	8	8
METHYL ORANGE ALKALINITY	52	174	40	160	158	152	56	114
CARBONATES AS CaCO ₃	12	0	4	0	8	0	16	16
BICARBONATES CaCO ₃	40	174	36	160	142	152	40	148
CHLORIDES AS Cl	10	20	10	20	10	16	10	90
HARDNESS AS CaCO ₃	60	50	62	54	60	42	60	0.58
IRON AS Fe	<0.04	0.41	<0.04	0.17	<0.04	<0.04	0.15	0.12
FLUORIDE	AM 0.94 PM 0.95	0.14	0.97 1.05	0.13	0.09	0.07	0.96 0.90	0.81
CHLORINE RESIDUAL	1.0	1.2	1.0	1.3	1.3	1.0	0.9	1.3
TURBIDITY	AM 0.20 PM 0.30	1.00	0.30 8.00	0.40	0.40	0.30	0.3 8.10	3.90
TOTAL PHOSPHATE		3.85			0.69			
ORTHO PHOSPHATE		1.32			0.19			
META PHOSPHATE		2.53			0.50			
STABILITY	+0.7	-0.9	+0.3	-0.7	+0.4	0.0	+0.7	+0.1

REMARKS

CLW

0000004427

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 + BARBEE *BB*

DATE OF ANALYSIS

20 OCT 1984

Encl (2)

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

DATE COLLECTED
 9 OCTOBER 1984

PARAMETER SERIAL #04-67	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONslow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -046
PH (IN LAB NOT PLANT)	8.8	7.8	8.9	7.6	8.3	8.3	8.9	8.7
PENOLTHALEIN ALKALINITY	6	0	6	0	4	2	6	12
METHYL ORANGE ALKALINITY	82	196	52	166	172	196	60	220
CARBONATES AS CaCO ₃	12	0	12	0	8	4	12	24
BICARBONATES AS CaCO ₃	70	196	40	166	164	192	48	196
CHLORIDES AS Cl	10	20	18	18	20	52	20	94
HARDNESS AS CaCO ₃	74	66	76	56	50	52	66	48
IRON AS Fe	0.04	0.34	0.04	0.15	0.04	0.09	0.04	0.04
FLUORIDE	AM 0.93		1.24				0.98	
	PM 0.95	0.16	1.19	0.16	0.11	0.10	0.84	0.87
CHLORINE RESIDUAL	0.9	1.4	1.0	1.5	1.1	1.0	0.9	1.3
TURBIDITY	AM 0.33		0.46				0.40	
	PM 0.31	0.94	0.75	0.25	0.21	0.46	0.35	0.63
TOTAL PHOSPHATE		2.75			0.81			
ORTHO PHOSPHATE		1.04			0.22			
META PHOSPHATE		1.71			0.59			
STABILITY	+0.3	-0.3	+0.5	-0.8	-0.2	-0.2	+0.2	+0.1

REMARKS

CLW

0000004428

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

BARBER + HONEYCUTT *EB*

DATE OF ANALYSIS

9 OCT 1984

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

DATE COLLECTED
 16 OCTOBER 1984

PARAMETER SERIAL #04-67	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -046
PH (IN LAB NOT PLANT)	9.1	7.4	7.8	7.5	8.5	8.1	8.8	8.5
PENOLTHALEIN ALKALINITY	8	0	0	0	4	0	4	6
METHYL ORANGE ALKALINITY	56	182	134	168	142	176	66	244
CARBONATES AS CaCO ₃	16	0	0	0	8	0	8	12
BICARBONATES AS CaCO ₃	40	182	134	168	134	176	58	232
CHLORIDES AS Cl	10	24	18	22	16	20	8	116
HARDNESS AS CaCO ₃	64	68	144	56	50	60	66	58
IRON AS Fe	0.04	0.43	0.06	0.14	0.04	0.04	0.04	0.04
FLUORIDE	AM 0.97		1.10				1.05	
	PM 0.95	0.16	1.16	0.15	0.10	0.09	0.84	0.89
CHLORINE RESIDUAL	1.1	1.3	1.0	1.5	1.4	1.0	1.0	1.3
TURBIDITY	AM 0.30		0.40				0.20	
	PM 0.40	0.96	0.42	0.20	0.29	0.33	0.28	0.50
TOTAL PHOSPHATE		3.30			1.32			
ORTHO PHOSPHATE		1.17			0.16			
META PHOSPHATE		2.13			1.16			
STABILITY	+0.5	-0.6	-0.1	-0.8	0	-0.3	+0.2	0

REMARKS

CLW

0000004429

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

BARBER + HUNYCLUT

EBB

DATE OF ANALYSIS

16 Oct 1984

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

DATE COLLECTED
 23 October 1984

PARAMETER SERIAL #0467	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -042
PH (IN LAB NOT PLANT)	8.9	7.3	8.5	7.4	8.3	8.3	8.7	8.5
PENOLTHALEIN ALKALINITY	4	0	2	0	0	0	4	6
METHYL ORANGE ALKALINITY	50	174	60	160	142	144	60	210
CARBONATES AS CaCO ₃	8	0	4	0	0	0	8	12
BICARBONATES AS CaCO ₃	42	174	56	160	142	144	52	198
CHLORIDES AS Cl	10	10	10	14	12	14	10	90
HARDNESS AS CaCO ₃	54	80	80	60	70	46	70	48
IRON AS Fe	<0.04	0.36	<0.04	0.13	<0.04	<0.04	<0.04	<0.04
FLUORIDE	AM 1.00		0.78				0.83	
	PM 1.07	0.17	0.72	0.15	0.11	0.09	0.79	0.93
CHLORINE RESIDUAL	1.0	1.5	1.0	1.3	1.3	1.0	1.0	1.3
TURBIDITY	AM 0.34		0.47				0.23	
	PM 0.55	1.03	0.64	0.26	0.30	0.29	0.26	0.47
TOTAL PHOSPHATE		1.92			1.54			
ORTHO PHOSPHATE		0.84			0.28			
META PHOSPHATE		1.08			1.26			
STABILITY	+0.6	-0.8	+0.3	-0.7	+0.1	0.0	+0.4	+0.1

REMARKS

CLW

0000004480

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 + BARBER ^{EOB}

DATE OF ANALYSIS
 23 Oct 1984

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

DATE COLLECTED
 30 OCTOBER 1984

PARAMETER SERIAL #04-67	HADNOT POINT -041	MONTFORD POINT -045	TARAWA TERRACE -044	ONSLow BEACH -048	COURTHOUSE BAY -047	RIFLE RANGE -046	HOLCOMB BLVD -043	NEW RIVER -046
PH (IN LAB NOT PLANT)	9.0	7.5	9.0	7.5	8.5	8.5	9.5	8.8
PENOLTHALEIN ALKALINITY	4	0	6	0	4	2	8	10
METHYL ORANGE ALKALINITY	48	184	46	160	160	152	48	238
CARBONATES AS CaCO ₃	8	0	12	0	8	4	16	20
BICARBONATES AS CaCO ₃	40	184	34	160	152	148	32	218
CHLORIDES AS Cl	10	12	12	18	18	16	12	88
HARDNESS AS CaCO ₃	64	66	66	72	68	52	50	44
IRON AS Fe	<0.04	0.41	<0.04	0.13	<0.04	<0.04	0.04	0.06
FLUORIDE	AM 1.03 PM 0.99	0.16	0.91 0.89	0.15	0.11	0.10	0.91 0.93	0.98
CHLORINE RESIDUAL	1.0	1.3	1.0	1.5	1.3	1.0	1.0	1.3
TURBIDITY	AM 0.3 PM 0.3	1.5	0.7 1.2	0.3	0.2	0.2	0.2 0.3	0.3
TOTAL PHOSPHATE		2.08			1.00			
ORTHO PHOSPHATE		1.00			0.25			
META PHOSPHATE		1.08			0.75			
STABILITY	+0.6	-0.8	+0.4	-0.8	+0.1	ELON	+0.6	+0.2

REMARKS

0000004431

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

LABORATORY ANALYSIS BY

DATE OF ANALYSIS
 30 OCT 1984