NREAD/DDS/jc
6280/1
9 May 1984

From: Commanding General
To: Commanding Officer, Naval Hospital

Subj: Water Quality Monitoring and Related Environmental Health Considerations

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 NPWC Ice Samples Bacteriological Analysis
(4) Analysis of Complaint Samples
(5) Analysis of Triangle Outpost Well

1. In accordance with the reference, enclosures (1) through (5) are forwarded for information.

2. Questions regarding this matter should be forwarded to Mr. Danny Sharpe, Supervisory Ecologist, extensions 2083/5003/1690.

J. I. WOOTEN
By direction

Blind copy to:
SupvChemist

File

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED 3/12/84

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH	8.8	7.4	8.2	7.1	8.3	8.3	8.3	8.5
PENOLTHALEIN ALKALINITY	4	0	8	0	8	8	18	24
METHYL ORANGE ALKALINITY	16	190	56	156	190	176	58	166
CARBONATES AS $CaCO_3$	8	0	16	0	16	16	36	48
BICARBONATES AS $CaCO_3$	8	190	40	156	174	160	22	118
CHLORIDES AS Cl	14	36	14	20	20	20	20	104
HARDNESS AS $CaCO_3$	62	76	66	58	64	54	66	78
IRON AS Fe	0.04	0.35	0.04	0.32	0.04	0.08	0.04	0.08
FLUORIDE	1.00 / 0.97	0.16	1.09 / 0.88	0.18	0.16	0.09	0.58 / 0.53	0.55
CHLORINE RESIDUAL	1.1	1.3	1.0	1.1	1.3	1.0	0.4	1.3
TURBIDITY	0.30	1.30	0.30 / 0.70	0.30	0.20	0.50	0.30 / 0.20	1.40
TOTAL PHOSPHATE		3.85			1.30			
ORTHO PHOSPHATE		1.54			0.32			
META PHOSPHATE		2.31			0.98			
STABILITY	0.3	-0.5	+0.1	-0.4	0.0	-0.1 CLW 2	+	0.0
REMARKS								

00000043 11

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 [illegible]

DATE OF ANALYSIS 3/16/84

Encl (1)

Utilities Dir

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 10 April 1984

PARAMETER		HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH		9.1	7.3	8.9	7.4	8.2	8.2	8.7	9.0
PENOLTHALEIN ALKALINITY		8	0	4	0	2	4	6	16
METHYL ORANGE ALKALINITY		60	190	54	160	176	170	70	154
CARBONATES AS $CaCO_3$		16	0	8	0	4	8	12	32
BICARBONATES AS CO_3		44	190	46	160	172	162	58	122
CHLORIDES AS Cl		8	32	8	16	14	14	10	98
HARDNESS AS $CaCO_3$		62	84	64	58	62	64	70	48
IRON AS Fe		0.04	0.58	0.04	1.27	0.04	0.06	0.04	0.14
FLUORIDE	AM	0.85		1.05				0.76	
	PM	0.99	0.14	0.98	0.17	0.10	0.09	0.76	0.64
CHLORINE RESIDUAL		1.1	1.3	1.0	1.4	1.5	1.0	1.1	1.2
TURBIDITY	AM			0.29				0.18	
	PM	1.40	0.76	0.38	1.2	0.30	0.30	0.20	1.30
TOTAL PHOSPHATE			2.60			1.40			
ORTHO PHOSPHATE			1.26			0.25			
META PHOSPHATE			1.34			1.15			
STABILITY		+0.5	-0.6	+0.3	-0.8	-0.1	-0.1	+0.3	+0.1

REMARKS

CLW

0000004312

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

LABORATORY ANALYSIS BY: Lachapelle + Burns

DATE OF ANALYSIS: 10 April 1984

File

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 17 April 1984

PARAMETER	HADNOT POINT	MONTFORD POINT (CAMP JOHNSON)	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	CWB OFFICER PLANT	TT 1539
PH	9.0	7.3	8.5	7.4	8.2	8.2	8.9	8.6	8.3	8.6
PENOLTHALEIN ALKALINITY	6	0	2	0	4	4	8	10	4	4
METHYL ORANGE ALKALINITY	54	184	64	138	170	170	60	150	174	64
CARBONATES AS $CaCO_3$	12	0	4	0	8	8	16	20	8	8
BICARBONATES AS $CaCO_3$	42	184	60	138	162	162	44	130	166	56
CHLORIDES AS Cl	8	36	12	18	14	20	8	64	16	10
HARDNESS AS $CaCO_3$	58	78	74	68	60	56	58	50	60	76
IRON AS Fe	0.03	0.60	0.04	0.27	0.04	0.07	0.04	0.13	0.04	0.04
FLUORIDE AM	1.15		0.98				0.98			
FLUORIDE PM	1.16	0.16	0.01	0.19	0.12	0.10	0.89	0.60	0.12	1.01
CHLORINE RESIDUAL	1.0	1.2	1.1	1.0	0.9	1.0	0.9	1.2	0.8	1.0
TURBIDITY AM	2.2	1.1	0.3	0.3	0.4	0.6	0.2	1.0	0.3	0.3
TURBIDITY PM			0.4				0.2			
TOTAL PHOSPHATE		4.20			1.34					
ORTHO PHOSPHATE		1.54			0.23					
META PHOSPHATE		2.66			1.29					
STABILITY	+0.4	-0.5	+0.1	-0.5	+0.1	+0.1	+0.4	+0.2		

REMARKS: CLW

0000004313

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

DATE OF ANALYSIS: 17 April 1984

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

Permit

DATE COLLECTED: 2 4 APRIL 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	CR 115
PH	8.8	7.2	8.5	7.4	8.1	8.2	8.7	8.8	7.2
PENOLTHALEIN ALKALINITY	6	0	4	0	6	2	6	14	0
METHYL ORANGE ALKALINITY	56	190	56	174	176	160	60	124	140
CARBONATES AS $CaCO_3$	12	0	8	0	12	4	12	28	0
BICARBONATES AS $CaCO_3$	44	190	48	174	164	156	48	96	140
CHLORIDES AS Cl	8	36	10	14	22	20	16	134	8
HARDNESS AS $CaCO_3$	60	76	86	92	62	42	60	58	138
IRON AS Fe	0.04	0.54	0.04	0.24	0.06	0.07	0.04	0.31	0.51
FLUORIDE AM	1.30		1.3				1.13		
FLUORIDE PM	1.26	0.79	1.33	0.58	0.58	0.34	0.83	1.06	0.34
CHLORINE RESIDUAL	1.0	1.3	1.0	1.2	1.2	1.0	1.0	1.3	—
TURBIDITY AM	1.5		0.4				0.3		
TURBIDITY PM	0.5	0.7	0.5	0.3	0.4	0.4	0.3	1.4	3.3
TOTAL PHOSPHATE		4.60			1.92				
ORTHO PHOSPHATE		1.54			0.32				
META PHOSPHATE		3.06			1.60				
STABILITY	+0.4	−0.5	+0.2	−0.4	0.0	−0.1	+0.2	+0.2	—

REMARKS

CLW

0000004314

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

LABORATORY ANALYSIS BY: Lachapelle + Burns

DATE OF ANALYSIS: 24 APRIL 1984

BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/4 (REV. 7-83)

DATE COLLECTED: 3 April 1984

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME	WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME
RR - XX 2	1	ø	0.9	0935	MCAS - 3502	24	ø	0.2	0920
RR - 15	2		0.9	0920	MCAS - 2002	25		0.5	0940
RR - 10	3		0.9	0930	MCAS - 2037	26		0.6	0930
	4				MCAS - 1184	27		0.9	1005
A-1	5		1.0	0850		28			
BB - 7	6		1.2	0815	NRMC - food Service	29		0.6	1050
B[redacted]9	7		1.0	0830	PP - 2615	30		0.6	1015
BB - 245	8		1.0	0820	PP - 2600	31		0.5	1020
	9				BM - 5400	32		0.7	1035
BA - 103	10		1.0	1045	BM - 1985	33		0.6	1030
BA - 101	11		1.0	1050	LCH - 4022	34		0.6	1100
	12				LCH - 4002	35		0.5	1105
TT - 38	13		1.0	0900		36			
TT - 43	14		0.9	0915	H - 1	37		1.0	1000
TT - 2888	15		0.9	0930	H - 16	38		0.8	1005
	16				FC - 303	39		1.0	0850
[redacted]1407	17		0.8	1000	FC - 420	40		1.0	0900
M - 139	18		1.0	1115	FC - 540	41		1.0	0910
M - 422	19		1.1	1030	HP - 236	42		0.8	0950
	20				HP - 540	43		0.7	0840
CG - 1	21		0.3	0830	HP - 1300	44		0.5	0830
TC - 830	22		0.6	0910	HP - 15	45	ø	1.0	1145
TC - 501	23	ø	0.8	0900		146	CLW		

LABORATORY DATA

- TIME RECEIVED: 1235–1355
- DATE RECEIVED: 4/3/84
- ACCEPTED BY: Lachapelle
- DATE ANALYZED: 4/3/84
- ANALYSIS STARTED: 1300–1355
- ANALYSIS FINISHED: 1320–1420
- INCUBATOR TEMP: 35.0° C
- PROCESSED BY: Lachapelle

CUSTODY DATA

- DATE
- TIME
- SIGNATURE
- DATE
- TIME
- SIGNATURE

COPY TO:

- ☑ UTIL DIR
- ☐ WATER TREATMENT
- ☐ PMU ☐ MCAS PMO
- ☐ NREAD ☐ FILE
- ☐ _____

REMARKS

Resample from MCAS 1277 Negative

0000004315

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		0845
FC-19		Ø	trace		0935
SH-8		Ø	2.0+		0920
M.P. POOL		Ø	1.0	7.0	1115
#2 POOL		Ø	0.9	7.6	0950
#5 POOL		Ø	0.8	7.6	0840
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
Ice Sample bldg 1300		Ø			0830

REMARKS
FC-19-9 Non-coliform

CLW

0000004316

MCBCL 11330/4 (A)

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

DATE COLLECTED: 10 APR 84

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME
RR - 3	1		1.0	0925
RR - 15	2		1.0	0920
RR - 6	3		1.0	0930
	4			
A-1	5		1.0	0900
[redacted]	6		1.2	0825
BB - 49	7		1.2	0850
BB - 45	8		1.2	0820
	9			
BA - 103	10		1.3	1030
BA - 101	11		1.3	1040
	12			
TT - 38	13		1.0	0830
TT - 43	14		1.0	0845
TT - 1373	15		0.9	0915
	16			
[redacted] 1502	17		0.7	1015
M - 139	18		1.2	1100
M - 324	19		1.1	0945
	20			
CG - 1	21		0.2	0905
TC - 830	22		1.0	0850
TC - 650	23		1.0	0840

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME
MCAS - 3502	24		0.2	0925
MCAS - 2002	25		0.9	0935
MCAS - 4157	26		0.7	0915
MCAS - 1191	27		0.7	0945
	28			
NRMC - Food Service	29		0.7	1222
PP - 2615	30		0.6	1210
PP - 2602	31		0.6	1200
BM - 5400	32		0.5	1240
BM - 5670	33		0.5	1252
LCH - 4022	34		0.7	1303
LCH - 4023	35		0.6	1317
	36			
H - 1/5TH Fl. Head	37		0.5	1142
H - 16	38		0.5	1134
FC - 303	39		0.7	1037
FC - 420	40		0.6	1028
FC New Snack Bar	41		0.6	1022
HP - 236	42		0.5	1149
HP - 540	43		0.6	1122
HP - 1300	44		0.4	1005
HP - 1301	45		0.5	1016
	46			

LABORATORY DATA	
TIME RECEIVED	
DATE RECEIVED	10 APR 84
ACCEPTED BY	
DATE ANALYZED	10 APR 84
ANALYSIS STARTED	
ANALYSIS FINISHED	
INCUBATOR TEMP	35.0°C
PROCESSED BY	Huneycutt
CUSTODY DATA	
DATE	
TIME	
SIGNATURE	
DATE	
TIME	
SIGNATURE	
COPY TO:	
☒ UTIL DIR	
☐ WATER TREATMENT	
☐ PMU ☐ MCAS PMO	
☐ NREAD ☐ FILE	
☐ _____	

REMARKS
#2 had 132 non-coliform colonies
#23 had 3 non-coliform colonies

CLW

0000004317

SIGNATURE
Darien Huneycutt 4/11/84

BACTERIOLOGICAL ANALYSIS OF WATER — NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		Ø	0.6		0840
FC-19			2.0		1103
SH-8			1.5		1047
M.P. [redacted] L		Ø	1.5	7.4	1115
32 POOL			0.7	7.4	1156
35 POOL			1.3	7.2	1115
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
CE [redacted] 8/d 1300		Ø			1040

REMARKS

CLW

0000004318

MCBCL 11880/4 (A)

File

BACTERIOLOGICAL ANALYSIS OF WATER

MCBCL 11330/4 (REV. 7-83)

DATE COLLECTED 4/17/84

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME
RR - 3	1	ϕ	0.8	0910
RR - 15	2	↓	0.4	0900
RR - 6	3	ϕ	0.8	0715
	4			
A-1	5	ϕ	0.6	0735
[redacted]	6	↓	0.8	1105
BB - 49	7	↓	0.5	1050
BB - 9	8	ϕ	0.8	1115
	9			
BA - 103	10	ϕ	0.8	1025
BA - 101	11	ϕ	0.9	1035
	12			
TT - 38	13	ϕ	1.1	0845
TT - 43	14	↓	1.0	0900
TT - 1545	15	ϕ	0.9	0915
	16			
[redacted] 1005	17	ϕ	0.8	0945
M - 139	18	↓	1.2	1100
M - 424	19	ϕ	1.2	1130
	20			
CG - 1	21	ϕ	0.3	0921
TC - 830	22	↓	1.3	0708
TC - 610	23	ϕ	0.5	0858

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME
MCAS - 3502	24	ϕ	0.3	0940
MCAS - 2002	25	↓	0.6	0949
MCAS - 4157	26	↓	0.5	0932
MCAS - E-1012	27	ϕ	0.6	0958
	28			
NRMC - FOOD SERVICE	29	ϕ	0.6	1130
PP - 2615	30	↓	0.6	1050
PP - 2600	31	↓	0.7	1100
BM - 5400	32	↓	0.6	1120
BM - 1985	33	↓	0.5	1110
LCH - 4022	34	↓	0.6	1140
LCH - 4002	35	ϕ	0.5	1145
	36			
H-1 12A WARD	37	ϕ	0.6	1040
H - 16	38	↓	0.5	1030
FC - 303	39	↓	0.8	0920
FC - 420	40	↓	0.7	0925
FC - 540	41	↓	0.8	0735
HP - 236	42	↓	0.7	1070
HP - 540	43	↓	0.9	0710
HP - 1300	44	↓	0.2	0845
HP - 15	45	ϕ	0.8	1020
	46	CLW		

LABORATORY DATA

- TIME RECEIVED 1235 - 1345
- DATE RECEIVED 4/17/84
- ACCEPTED BY Bivens
- DATE ANALYZED 4/17/84
- ANALYSIS STARTED 1245
- ANALYSIS FINISHED 1420
- INCUBATOR TEMP 35°
- PROCESSED BY Bivens

CUSTODY DATA

- DATE
- TIME
- SIGNATURE
- DATE
- TIME
- SIGNATURE

COPY TO:

- ☐ UTIL DIR
- ☐ WATER TREATMENT
- ☐ PMU ☐ MCAS PMO
- ☐ NREAD ☐ FILE
- ☐ _____

REMARKS

EXTRA SAMPLE: R.R. 15 = ϕ

COMPLAINT: TT 1539 Cl_2 1.0 = ϕ

000000431 9

SIGNATURE Loy Burns

4/18/84

BACTERIOLOGICAL ANALYSIS OF WATER — **NON-REPORTABLE**

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		ϕ	0.2		1120
FC-19		ϕ	TRACE		0955
SH-8		ϕ	2.0+		0945
M.P. POOL		ϕ	0.5	7.4	1115
#2 POOL		ϕ	0.5	7.6	1010
#5 POOL		ϕ	1.5	8.0	0910
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
BLDG 1300		ϕ			0850
ICE					

REMARKS

FC-19 = NON-COLIFORM TNTC

CLW

00000432

NAVMED 11000/4 (A)

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

DATE COLLECTED 24 APR 84

REPORTABLE POINTS FOR SDWA

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME
RR - 3	1		0.8	0845
RR - 15	2		0.6	0855
RR - 10	3		0.7	0900
	4			
A-1	5		0.6	0915
[redacted]7	6		1.0	1055
BB - 49	7		0.6	1020
BB - 255	8		0.8	1105
	9			
BA - 103	10		0.9	0855
BA - 113	11		0.8	0845
	12			
TT - 38	13		1.0	1100
TT - 43	14		0.9	1045
TT - 1538	15		1.0	1030
	16			
[redacted] 1509	17		0.9	1000
M - 139	18		1.2	0945
M - 522	19		1.1	0930
	20			
CG - 1	21		0.5	1100
TC - 830	22		0.7	0915
TC - G - 640	23		0.7	0900

WATER SAMPLES	MARKED	COLIFORM MF/100 ML	RESIDUAL CHLORINE	TIME
MCAS - 3502	24		0.7	1000
MCAS - 2002 MOQ	25		0.7	1030
MCAS - 4157	26		0.7	0950
MCAS - E-1142	27		0.8	1020
	28			
NRMC - Food Service	29		0.8	1130
PP - 2615	30		0.5	1107
PP - 2604	31		0.5	1116
BM - 5400	32		0.5	1143
BM - 5662	33		0.5	1150
LCH - 4022	34		0.4	1230
LCH - 4000	35		0.5	1241
	36			
H - 1/1st Fl. Head	37		0.5	1050
H - 23	38		0.5	1056
FC - 303	39		0.7	0947
FC - 420	40		0.7	0941
FC - E-C/46	41		0.7	0936
HP - 236	42		0.5	1043
HP - 540	43		0.6	1032
HP - 1300	44		6.4	0905
HP - 1504	45		0.7	0913
	46			

LABORATORY DATA	
TIME RECEIVED	
DATE RECEIVED	
ACCEPTED BY	
DATE ANALYZED	4/24/84
ANALYSIS STARTED	
ANALYSIS FINISHED	
INCUBATOR TEMP	35.0
PROCESSED BY	Hunnycutt
CUSTODY DATA	
DATE	
TIME	
SIGNATURE	
DATE	
TIME	
SIGNATURE	
COPY TO:	
☒ UTIL DIR	
☐ WATER TREATMENT	
☐ PMU ☐ MCAS PMO	
☐ NREAD ☐ FILE	
☐ _____	

REMARKS

CLW

0000004321

SIGNATURE

M Hunnycutt, S. 4/29/84

BACTERIOLOGICAL ANALYSIS OF WATER — NON-REPORTABLE

WATER SAMPLES	MARKED	COLIFORM COUNT M-ENDO MEDIUM	RESIDUAL CHLORINE	pH	TIME
BB-97		Ø	1.2		1035
FC-19			2.0+		1016
SH-8			2.0		1000
M.P. POOL		Ø	1.0	7.3	0945
#2 POOL		Secured			
#5 POOL		Ø	0.9	7.2	1027
P. P. POOL					
P. P. BABY POOL					
MCAS E-POOL					
MCAS O-POOL					
MCAS BABY POOL					
ICE Plant		Ø			0910

REMARKS

CLW

1

0000004322

MCBCL 11330/4 (A)

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

Infection Control Naval Hospital

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
ICE	Hm2 Burt	24 Apr 84

LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
E.R.		0	
ICU			
L&D			
R.R.			
4A			
4W			
3W			
3E			
CCU			
2E			
2W			

REMARKS
Read 1220 4/24/84 H

CLW
0000004323

SIGNATURE H Hengeveld
DATE 4/25/84

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

Encl (3)

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

DATE COLLECTED 26 Apr 84

PARAMETER	~~HADNOT POINT~~ HP 135	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	
PH	8.6								
PENOLTHALEIN ALKALINITY	6								
METHYL ORANGE ALKALINITY	52								
CARBONATES AS $CaCO_3$	12								
BICARBONATES AS $CaCO_3$	40								
CHLORIDES AS Cl	8								
HARDNESS AS $CaCO_3$	58								
IRON AS Fe	<0.04								
FLUORIDE									
CHLORINE RESIDUAL	0.4								
TURBIDITY	1.4								
TOTAL PHOSPHATE									
[redacted]HO PHOSPHATE									
META PHOSPHATE									
STABILITY									

REMARKS

CLW

0000004324

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 [redacted]

DATE OF ANALYSIS 26 Apr 84

Encl (4)

QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER

NCBCL 11330/8 (REV. 4/78)

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
Potable	GW Q 1113 Personnel	4/24/81

LOCATION	MARKED	COLIFORM	
		TOTAL	FECAL
CK115		0	

REMARKS

Due to turbidity of sample MPN was performed with dilutions of 10 ml, 0.1 ml, 0.01 ml/100 ml and all tubes were negative.

CLW

0000004325

SIGNATURE [signature] DATE 4/25/81

COPY TO:

- ☐ INREAD
- ☐ UTILITIES DIRECTOR
- ☐ WATER TREATMENT PLANT (GENERAL FOREMAN)
- ☑ BASE PREVENTIVE MEDICINE
- ☐ MCAS PREVENTIVE MEDICINE
- ☑ Safety

Enclosure (5)

CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 2 4 APRIL 1984

PARAMETER	HADNOT POINT	MONTFORD POINT	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER	CR 115
PH	8.8	7.2	8.5	7.4	8.1	8.2	8.7	8.8	7.2
PENOLTHALEIN ALKALINITY	6	0	4	0	6	2	6	14	0
METHYL ORANGE ALKALINITY	56	190	56	174	176	160	60	124	140
CARBONATES AS $CaCO_3$	12	0	8	0	12	4	12	28	0
BICARBONATES AS $CaCO_3$	44	190	48	174	164	156	48	96	140
CHLORIDES AS Cl	8	36	10	14	22	20	16	134	8
HARDNESS AS $CaCO_3$	60	76	86	92	62	42	60	58	138
IRON AS Fe	0.04	(0.54)	0.04	0.24	0.06	0.07	0.04	(0.31)	(0.51)
FLUORIDE AM	1.30	0.79	1.3	0.58	0.58	0.34	1.13	1.06	0.34
FLUORIDE PM	1.26		1.33				0.83		
CHLORINE RESIDUAL	1.0	1.3	1.0	1.2	1.2	1.0	1.0	1.3	—
TURBIDITY AM	1.5	0.7	0.4	0.3	0.4	0.4	0.3	1.4	3.3
TURBIDITY PM	0.5		0.5				0.3		
TOTAL PHOSPHATE		4.60			1.92				
ORTHO PHOSPHATE		1.54			0.32				
META PHOSPHATE		3.06			1.60				
STABILITY	+0.4	−0.5	+0.2	−0.4	0.0	−0.1	+0.2	+0.2	—

REMARKS: CLW

0000004526

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

LABORATORY ANALYSIS BY: Lachapelle & Burns

DATE OF ANALYSIS: 24 APRIL 1984