Eric

11330/1
NREAD
7 June 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 May 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:
QCL

CLW

0000004354

Writer: E. Betz, NREAD, ext. 5977
Typist: T. Green, 7 Jun 84

Month [illegible] WATER TREATMENT PLANT AT [illegible]

Year 1984

CONTAMINANT CODE: 3000

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

N. C. DEPARTMENT OF HUMAN RESOURCES

SERIAL #: 04-67-041

| DATE | RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml. | A: TOTAL COLONIES | A: COLIFORM COLONIES | B: VOLUME FILTERED ml. | B: TOTAL COLONIES | B: COLIFORM COLONIES | C: VOLUME FILTERED ml. | C: TOTAL COLONIES | C: COLIFORM COLONIES | NO. OF COLIFORMS PER 100 ml. | FILTERED: TOTAL PLATE COUNT | FILTERED: MFP COLIFORMS per 100 ml. | FINISHED: TOTAL PLATE COUNT | FINISHED: MFP COLIFORMS per 100 ml. | DISTRIBUTION SYSTEM: TOTAL PLATE COUNT | COLIFORMS (MFP): AVE. COLIFORMS per 100 ml. | COLIFORMS (MFP): NO. OF SAMPLES EXAMINED | 1: COLIFORMS per 100 ml. | 2: COLIFORMS per 100 ml. | 3: COLIFORMS per 100 ml. | 4: COLIFORMS per 100 ml. | 5: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | INCUBATOR TEMP. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 31 | | | | | | | | | | | | | | | 0 | 9 | 0 0 | 0 0 | 0 0 | 0 0 | 0 | | | | 35.0 |
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| 8 | 38 | | | | | | | | | | | | | | | 0 | 9 | 0 0 | 0 0 | 0 0 | | 0 | | | | 35.0 |
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| 15 | 315 | | | | | | | | | | | | | | | 0 | 9 | 0 0 | 0 0 | 0 0 | 0 | | | | | 35.0 |
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| 22 | 322 | | | | | | | | | | | | | | | 0 | 9 | 0 0 | 0 0 | 0 0 | | | | | | 35.1 |
| ~~23~~ | | | | | | | | | | | | | | | | | | | 0 | 0 0 | | | | | | |
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| 29 | 329 | | | | | | | | | | | | | | | 0 | 9 | 0 0 | 0 0 | 0 0 | | 0 | | | | 35.0 |
| ~~30~~ | | | | | | | | | | | | | | | | | | 0 0 | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MF MEDIA | | | BBL m-ENDO | | | | | | | | | | | | | 0 | DIST. SYSTEM | TOTAL NO. SAMPLES | | | | | | | | 45 |
| TPC MEDIA | | | | | | | | | | | | | | | | 1.0 | | SAMPLES EXCEEDING 3/50, 4/100, 7/200, 13/500ml | | | | | | | | 0 |

CLW

0000004355

Laboratory Cert. #100

Signed [illegible] Cert. Grade [illegible] No. [illegible]

ENCLOSURE (1)

Month [illegible] WATER TREATMENT PLANT AT [illegible]

Year 1984

CONTAMINANT CO[illegible]

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

N. C. DEPARTMENT OF HUMAN RESOURCES

SERIAL #: 04-67-042

| DATE | RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml. | A: TOTAL COLONIES | A: COLIFORM COLONIES | B: VOLUME FILTERED ml. | B: TOTAL COLONIES | B: COLIFORM COLONIES | C: VOLUME FILTERED ml. | C: TOTAL COLONIES | C: COLIFORM COLONIES | NO. OF COLIFORMS PER 100 ml. | FILTERED: TOTAL PLATE COUNT | FILTERED: MFP COLIFORMS per 100 ml. | FINISHED: TOTAL PLATE COUNT | FINISHED: MFP COLIFORMS per 100 ml. | DISTRIBUTION SYSTEM: TOTAL PLATE COUNT | COLIFORMS (MFP): AVE. COLIFORMS per 100 ml. | NO. OF SAMPLES EXAMINED | 1: COLIFORMS per 100 ml. | 2: COLIFORMS per 100 ml. | 3: COLIFORMS per 100 ml. | 4: COLIFORMS per 100 ml. | 5: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | COLIFORMS per 100 ml. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | 0 0 | 0 | | | |
| ~~2~~ 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | 0 | 0 | 0 | | |
| ~~9~~ 38 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 15 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | 0 | | 0 | | |
| ~~16~~ 315 | | | | | | | | | | | | | | | | | | 0 | | | | | | |
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| 22 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | | | | | |
| ~~23~~ 322 | | | | | | | | | | | | | | | | | | 0 | 0 0 | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 329 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | | | | | |

CLW

0000004356

Year 1957

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES

N. C. DEPARTMENT OF HUMAN RESOURCES

SERIAL #: 04-67-043

| Date | Raw Water Coliforms (MFP) A: Volume Filtered ml. | A: Total Colonies | A: Coliform Colonies | B: Volume Filtered ml. | B: Total Colonies | B: Coliform Colonies | C: Volume Filtered ml. | C: Total Colonies | C: Coliform Colonies | No. of Coliforms per 100 ml. | Filtered: Total Plate Count | Filtered: MFP Coliforms per 100 ml. | Finished: Total Plate Count | Finished: MFP Coliforms per 100 ml. | Distribution System: Total Plate Count | Coliforms (MFP): Ave. Coliforms per 100 ml. | No. of Samples Examined | 1: Coliforms per 100 ml. | 2: Coliforms per 100 ml. | 3: Coliforms per 100 ml. | 4: Coliforms per 100 ml. | 5: Coliforms per 100 ml. | Repeat Samples: Coliforms per 100 ml. | Repeat Samples: Coliforms per 100 ml. | Repeat Samples: Coliforms per 100 ml. | Incubator Temp. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | 0 0 | 0 | | | | | 35 |
| ~~2~~ | 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | | 0 | 0 0 | | | | 35 |
| 8 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | | | | | | | 35 |
| 15 | 315 | | | | | | | | | | | | | | | | | 0 0 | 0 | | | | | | | |
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| 21 | | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | | | | | | | 35 |
| 22 | 322 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 29 | 329 | | | | | | | | | | | | | | | 0 | 7 | 0 0 | 0 0 | | 0 | 0 | | | | 35 |
| ~~30~~ | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MF Media / MFP Media | | BBL m-Endo | | | | Bacterial Density | | Arith. Mean / Geo. Mean | | | | | | | | 0 / 7.3 | Dist. System | Total No. Samples | | | | | | | | |
| | | | | | | | | | | | | | | | | | | Samples Exceeding 3/50 | 4/100 | 7/100 | 13/500ml | | | | | |

CLW

0000004357

Laboratory Cert. #100

Signed [illegible] Cert. Grade A-well No. [illegible]

SEEIAL 04-07-0??

| DATE | RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml. | A: TOTAL COLONIES | A: COLIFORM COLONIES | B: VOLUME FILTERED ml. | B: TOTAL COLONIES | B: COLIFORM COLONIES | C: VOLUME FILTERED ml. | C: TOTAL COLONIES | C: COLIFORM COLONIES | NO. OF COLIFORMS PER 100 ml. | FILTERED: TOTAL PLATE COUNT | FILTERED: MFP COLIFORMS per 100 ml. | FINISHED: TOTAL PLATE COUNT | FINISHED: MFP COLIFORMS per 100 ml. | DISTRIBUTION SYSTEM: TOTAL PLATE COUNT | COLIFORMS (MFP): AVE. COLIFORMS per 100 ml. | COLIFORMS (MFP): NO. OF SAMPLES EXAMINED | 1: COLIFORMS per 100 ml. | 2: COLIFORMS per 100 ml. | 3: COLIFORMS per 100 ml. | 4: COLIFORMS per 100 ml. | 5: COLIFORMS per 100 ml. | REPEAT SAMPLES ON 5/16: COLIFORMS per 100 ml. | ON 5/17: COLIFORMS per 100 ml. | ON 5/18 5/19: COLIFORMS per 100 ml. | INCUBATOR TEMP. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | 0 | 3 | 0 0 | 0 | | | | | | | 35.0 |
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| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | 0 | 3 | 0 0 | 0 | | | | | | | 35.0 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 16 | | | | | | | | | | | | | | | | 0 | 1 | | | | 0 | | | | | 35.0 |
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| 22 | | | | | | | | | | | | | | | | 0 | 3 | 0 0 | | | | 0 | | | | 35. |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | | 0 | 3 | 0 0 | | | | 0 | | | | 35. |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MF MEDIA | | | BBL m-ENDO | | | DACTERIAL DENSITY | | ARITH. MEAN | | | | | | | | 0.56 | DIST. SYSTEM | TOTAL NO. SAMPLES | | | | | | | | 18 |
| TPC MEDIA | | | | | | | | GEO. MEAN | | | | | | | | 1.14 | | SAMPLES EXCEEDING 3/50. 4/100 7/200. 13/500ml | | | | | | | | 1 |

CLW

0000004358

Laboratory Cert. #100

ID # 31807

Signed Elizabeth A Betz Cert. Grade B-WELL No. 4087-W

* NON NUMBERED NON COLIFORMED

SERIAL #: 04-67-045

N. C. DEPARTMENT OF HUMAN RESOURCES

| DATE | RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml. | A: TOTAL COLONIES | A: COLIFORM COLONIES | B: VOLUME FILTERED ml. | B: TOTAL COLONIES | B: COLIFORM COLONIES | C: VOLUME FILTERED ml. | C: TOTAL COLONIES | C: COLIFORM COLONIES | NO. OF COLIFORMS PER 100 ml. | FILTERED: TOTAL PLATE COUNT | FILTERED: MFP COLIFORMS per 100 ml. | FINISHED: TOTAL PLATE COUNT | FINISHED: MFP COLIFORMS per 100 ml. | DISTRIBUTION SYSTEM: TOTAL PLATE COUNT | COLIFORMS (MFP): AVE. COLIFORMS per 100 ml. | NO. OF SAMPLES EXAMINED | 1: COLIFORMS per 100 ml. | 2: COLIFORMS per 100 ml. | 3: COLIFORMS per 100 ml. | 4: COLIFORMS per 100 ml. | 5: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | INCUBATOR TEMP. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | 0 | 3 | 0 0 | 0 | | | | | | | 35.0 |
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| 8 | | | | | | | | | | | | | | | | 0 | 3 | 0 | 0 | 0 | | | | | | 35.0 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 15 | | | | | | | | | | | | | | | | 0 | 3 | 0 | | 0 | 0 | | | | | 35.0 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | | | | | 0 | 3 | 0 | | | 0 | 0 | | | | 35. |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 29 | | | | | | | | | | | | | | | | 0 | 3 | 0 | | | 0 | | | 0 | | 35.0 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MF MEDIA | | | BBL m-ENDO | | | DACTERIAL DENSITY | | ARITH. MEAN | | | | | | | | 0 | DIST. SYSTEM | TOTAL NO. SAMPLES | | | | | | | | 15 |
| TPC MEDIA | | | | | | | | GEO. MEAN | | | | | | | | 1.0 | | SAMPLES EXCEEDING 3/50. 4/100 7/200. 13/500ml | | | | | | | | 0 |

CLW

0000004359

Laboratory Cert. $100

TD # 37807

Signed Elizabeth [illegible] Cert. Grade B-well No. 4087-W

Month MAY  COURTHOUSE BAY  WATER TREATMENT PLANT AT [illegible]  METHOD CODE: [illegible]

Year 1984

REPORT OF BACTERIOLOGICAL RESULTS TO DIVISION OF HEALTH SERVICES  CONTAMINANT CODE: 3000

N. C. DEPARTMENT OF HUMAN RESOURCES

SERIAL # 04-67-047

| DATE | RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml. | A: TOTAL COLONIES | A: COLIFORM COLONIES | B: VOLUME FILTERED ml. | B: TOTAL COLONIES | B: COLIFORM COLONIES | C: VOLUME FILTERED ml. | C: TOTAL COLONIES | C: COLIFORM COLONIES | NO. OF COLIFORMS PER 100 ml. | FILTERED: TOTAL PLATE COUNT | FILTERED: MFP COLIFORMS per 100 ml. | FINISHED: TOTAL PLATE COUNT | FINISHED: MFP COLIFORMS per 100 ml. | DISTRIBUTION SYSTEM: TOTAL PLATE COUNT | COLIFORMS (MFP): AVE. COLIFORMS per 100 ml. | COLIFORMS (MFP): NO. OF SAMPLES EXAMINED | COLIFORMS (MFP) 1: COLIFORMS per 100 ml. | COLIFORMS (MFP) 2: COLIFORMS per 100 ml. | COLIFORMS (MFP) 3: COLIFORMS per 100 ml. | COLIFORMS (MFP) 4: COLIFORMS per 100 ml. | COLIFORMS (MFP) 5: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | INCUBATOR TEMP. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | 0 | 4 | 0 | 0 | 0 | 0 | | | | | 35.0 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | 0 | 4 | 0 | 0 | 0 | 0 | | | | | 35.0 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | 0 | 4 | 0 | 0 | 0 | | 0 | | | | 35.0 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | 0 | 4 | 0 | 0 | 0 | | 0 | | | | 35.1 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | 0 | 4 | 0 | 0 | 0 | 0 | | | | | 35.0 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MF MEDIA | BBLM-ENDO | BACTERIAL DENSITY | ARITH. MEAN | | 0 | DIST. SYSTEM | TOTAL NO. SAMPLES 80 |
| TPC MEDIA | | | GEO. MEAN | | 1.0 | | SAMPLES EXCEEDING 3/50 4/100 7/200. 13/500ml 0 |

CLW

0000004360

Laboratory Cert. #100

Signed Elizabeth A. Betz  Cert. Grade B-WELL  No. 4087-W

Year 1984

CONTAMINANT CODE: 3000

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

SERIAL#: 04-67-046

| DATE | RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml. | A: TOTAL COLONIES | A: COLIFORM COLONIES | B: VOLUME FILTERED ml. | B: TOTAL COLONIES | B: COLIFORM COLONIES | C: VOLUME FILTERED ml. | C: TOTAL COLONIES | C: COLIFORM COLONIES | NO. OF COLIFORMS PER 100 ml. | FILTERED: TOTAL PLATE COUNT | FILTERED: MFP COLIFORMS per 100 ml. | FINISHED: TOTAL PLATE COUNT | FINISHED: MFP COLIFORMS per 100 ml. | DISTRIBUTION SYSTEM: TOTAL PLATE COUNT | COLIFORMS (MFP): AVE. COLIFORMS per 100 ml. | NO. OF SAMPLES EXAMINED | 1: COLIFORMS per 100 ml. | 2: COLIFORMS per 100 ml. | 3: COLIFORMS per 100 ml. | 4: COLIFORMS per 100 ml. | 5: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | COLIFORMS per 100 ml. | COLIFORMS per 100 ml. | INCUBATOR TEMP. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | 0 | 3 | 0 | 0 | 0 | | | | | | 35C |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | 0 | 3 | 0 | 0 | | 0 | | | | | 36.0 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | 0 | 3 | 0 | 0 | | 0 | | | | | 35. |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | 0 | 3 | 0 | 0 | | 0 | | | | | 35 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | 0 | 3 | 0 | 0 | 0 | | | | | | 35. |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MF MEDIA | | | BBL m-ENDO | | | DACTERIAL DENSITY | | ARITH. MEAN | | | | | | | | 0 | DIST. SYSTEM | TOTAL NO. SAMPLES | | | | | | | | 15 |
| TPC MEDIA | | | | | | | | GEO. MEAN | | | | | | | | 1.0 | | SAMPLES EXCEEDING 3/50. 4/100 7/200. 13/500ml | | | | | | | | 0 |

CLW
0000004361

Laboratory Cert. #100

Signed Elizabeth A. Betz Cert. Grade B-WELL No. 4087-W

| DATE | RAW WATER COLIFORMS (MFP) A: VOLUME FILTERED ml. | A: TOTAL COLONIES | A: COLIFORM COLONIES | B: VOLUME FILTERED ml. | B: TOTAL COLONIES | B: COLIFORM COLONIES | C: VOLUME FILTERED ml. | C: TOTAL COLONIES | C: COLIFORM COLONIES | NO. OF COLIFORMS PER 100 ml. | FILTERED: TOTAL PLATE COUNT | FILTERED: MFP COLIFORMS per 100 ml. | FINISHED: TOTAL PLATE COUNT | FINISHED: MFP COLIFORMS per 100 ml. | DISTRIBUTION SYSTEM: TOTAL PLATE COUNT | COLIFORMS (MFP): AVE. COLIFORMS per 100 ml. | NO. OF SAMPLES EXAMINED | 1: COLIFORMS per 100 ml. | 2: COLIFORMS per 100 ml. | 3: COLIFORMS per 100 ml. | 4: COLIFORMS per 100 ml. | 5: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | REPEAT SAMPLES: COLIFORMS per 100 ml. | INCUBATOR TEMP. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | 0 | 2 | 0 | 0 | | | | | | | 35.0 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | 0 | 2 | 0 | 0 | | | | | | | 35.0 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | 0 | 2 | 0 | | 0 | | | | | | 35.0 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | 0 | 2 | 0 | 0 | | | | | | | 35.1 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 28 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | 0 | 2 | 0 | 0 | | | | | | | 35.0 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MF MEDIA | | | BBLm-ENDO | | | DACTERIAL DENSITY | | ARITH. MEAN | | | | | | | | 0 | DIST. SYSTEM | TOTAL NO. SAMPLES | | | | | | | | 10 |
| TPC MEDIA | | | | | | | | GEO. MEAN | | | | | | | | 0 | | SAMPLES EXCEEDING 3/50 4/100 7/200 13/500ml | | | | | | | | 0 |

CLW

0000004362

Laboratory Cert. #101

Signed [illegible] Cert. Grade [illegible] No. [illegible]

[illegible] ID #[illegible]

## CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 1 MAY 1984

| PARAMETER SERIAL #04-61 | 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) | 8.5 | 7.1 | 8.3 | 7.2 | 8.1 | 8.3 | 8.6 | 8.5 | |
| PENOLTHALEIN ALKALINITY | 4 | 0 | 4 | 0 | 4 | 4 | 6 | 10 | |
| METHYL ORANGE ALKALINITY | 56 | 186 | 58 | 164 | 160 | 134 | 62 | 142 | |
| CARBONATES AS $CaCO_3$ | 8 | 0 | 8 | 0 | 8 | 8 | 12 | 20 | |
| BICARBONATES AS $CaCO_3$ | 48 | 186 | 50 | 164 | 152 | 126 | 50 | 122 | |
| CHLORIDES AS C1 | 10 | 34 | 12 | 24 | 22 | 24 | 12 | 108 | |
| HARDNESS AS $CaCO_3$ | 62 | 74 | 78 | 80 | 52 | 38 | 62 | 58 | |
| IRON AS Fe | 0.04 | 0.55 | 0.04 | 0.17 | 0.08 | 0.09 | 0.04 | 0.14 | |
| FLUORIDE AM | 1.20 | | 1.13 | | | | 0.99 | | |
| FLUORIDE PM | 1.06 | | 1.06 | | | | 0.79 | 0.83 | |
| CHLORINE RESIDUAL | 1.1 | 1.4 | 1.0 | 0.9 | 1.5 | 1.1 | 1.0 | 1.5 | |
| TURBIDITY AM | 0.2 | | 0.6 | | | | 0.3 | | |
| TURBIDITY PM | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.2 | 1.1 | |
| TOTAL PHOSPHATE | | 1.52 | | | 1.76 | | | | |
| ORTHO PHOSPHATE | | 1.21 | | | 0.25 | | | | |
| META PHOSPHATE | | 0.31 | | | 1.51 | | | | |
| STABILITY | +0.1 | -0.6 | +0.1 | -0.7 | +0.1 | 0.0 | +0.3 | +0.2 | |

REMARKS

CLW

0000004363

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

DATE OF ANALYSIS: 1 MAY 1984

ENCLOSURE (2)

# CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 8 MAY 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) | 8.4 | 7.2 | 8.6 | 7.3 | 8.2 | 8.1 | 8.6 | 8.2 |
| PENOLTHALEIN ALKALINITY | 2 | 0 | 4 | 0 | 0 | 0 | 4 | 2 |
| METHYL ORANGE ALKALINITY | 60 | 174 | 46 | 144 | 166 | 140 | 54 | 144 |
| CARBONATES AS $CaCO_3$ | 4 | 0 | 8 | 0 | 0 | 0 | 8 | 4 |
| BICARBONATES $CaCO_3$ | 56 | 174 | 38 | 144 | 166 | 140 | 46 | 140 |
| CHLORIDES AS C1 | 10 | 30 | 10 | 18 | 14 | 16 | 10 | 160 |
| HARDNESS AS $CaCO_3$ | 78 | 76 | 68 | 60 | 68 | 50 | 56 | 76 |
| IRON AS Fe | <0.04 | 0.55 | <0.04 | 0.15 | 0.09 | 0.06 | 0.05 | 0.07 |
| FLUORIDE AM | 1.06 | | 1.09 | | | | | |
| FLUORIDE PM | 1.09 | | 1.09 | | | | 0.91 | 0.83 |
| CHLORINE RESIDUAL | 1.0 | 1.3 | 1.0 | 1.2 | 1.3 | 1.0 | 0.9 | 1.2 |
| TURBIDITY AM | 0.20 | | 0.50 | | | | 3.60 | |
| TURBIDITY PM | 0.42 | 1.60 | 0.90 | 0.30 | 0.35 | 0.51 | 2.14 | 0.61 |
| TOTAL PHOSPHATE | | 2.95 | | | 1.13 | | | |
| ORTHO PHOSPHATE | | 1.54 | | | 0.32 | | | |
| META PHOSPHATE | | 1.41 | | | 0.81 | | | |
| STABILITY | +0.3 | -0.5 | +0.2 | -0.4 | +0.2 | 0.0 | +0.3 | 0.0 |

REMARKS

CLW

0000004364

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: BUENS

DATE OF ANALYSIS: 8 MAY 1984

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

DATE COLLECTED: 15 MAY 1984

| PARAMETER SERIAL #04-61 | 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) | 8.6 | 7.1 | 8.3 | 7.3 | 8.1 | 8.2 | 8.6 | 8.5 |
| PENOLTHALEIN ALKALINITY | 4 | 0 | 2 | 0 | 0 | 0 | 4 | 14 |
| METHYL ORANGE ALKALINITY | 50 | 180 | 60 | 164 | 150 | 136 | 60 | 140 |
| CARBONATES AS $CaCO_3$ | 8 | 0 | 4 | 0 | 0 | 0 | 8 | 28 |
| BICARBONATES AS $CaCO_3$ | 42 | 180 | 56 | 164 | 150 | 136 | 52 | 112 |
| CHLORIDES AS Cl | 10 | 26 | 10 | 20 | 14 | 20 | 10 | 160 |
| HARDNESS AS $CaCO_3$ | 56 | 72 | 70 | 70 | 68 | 54 | 60 | 60 |
| IRON AS Fe | <0.04 | 0.85 | <0.04 | 0.08 | 0.16 | 0.05 | <0.04 | 0.10 |
| FLUORIDE AM | 0.95 | | 0.91 | | | | 0.95 | |
| FLUORIDE PM | 0.99 | | 1.13 | | | | 1.09 | 0.83 |
| CHLORINE RESIDUAL | 1.0 | 1.3 | 1.0 | 1.2 | 1.3 | 1.0 | 0.9 | 1.3 |
| TURBIDITY AM | 0.31 | | 0.29 | | | | 0.20 | |
| TURBIDITY PM | 0.76 | 1.15 | 0.46 | 0.32 | 0.41 | 0.39 | 0.30 | 0.55 |
| TOTAL PHOSPHATE | | 4.05 | | | 1.84 | | | |
| ORTHO PHOSPHATE | | 1.62 | | | 0.32 | | | |
| META PHOSPHATE | | 2.43 | | | 1.52 | | | |
| STABILITY | +0.1 | -0.7 | 0.0 | -0.6 | 0.0 | +0.1 | +0.2 | +0.1 |

REMARKS

CLW

0000004365

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 + LACHOPELLE

DATE OF ANALYSIS: 15 MAY 1984

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

DATE COLLECTED: 22 MAY 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) | 8.5 | 7.1 | 8.5 | 7.2 | 8.3 | 8.1 | 8.6 | 8.4 |
| PENOLTHALEIN ALKALINITY | 6 | 0 | 6 | 0 | 6 | 2 | 4 | 4 |
| METHYL ORANGE ALKALINITY | 50 | 180 | 52 | 160 | 144 | 150 | 64 | 136 |
| CARBONATES AS $CaCO_3$ | 12 | 0 | 12 | 0 | 12 | 4 | 8 | 8 |
| BICARBONATES AS $CaCO_3$ | 38 | 180 | 40 | 160 | 132 | 146 | 56 | 128 |
| CHLORIDES AS C1 | 6 | 26 | 10 | 10 | 10 | 20 | 10 | 126 |
| HARDNESS AS $CaCO_3$ | 54 | 70 | 60 | 60 | 52 | 60 | 70 | 58 |
| IRON AS Fe | <0.04 | 0.57 | <0.04 | 0.10 | <0.04 | 0.06 | <0.04 | 0.07 |
| FLUORIDE AM | 1.09 | | 0.99 | | | | 0.79 | |
| FLUORIDE PM | 0.99 | | 0.91 | | | | 0.99 | 1.09 |
| CHLORINE RESIDUAL | 1.0 | 1.4 | 1.2 | 1.3 | 1.5 | 1.0 | 0.9 | 1.3 |
| TURBIDITY AM | 0.50 | | 0.20 | | | | 0.30 | |
| TURBIDITY PM | 0.50 | 0.70 | 1.41 | 0.30 | 0.20 | 0.54 | 0.30 | 0.50 |
| TOTAL PHOSPHATE | | 1.46 | | | 1.00 | | | |
| ORTHO PHOSPHATE | | 0.88 | | | 0.01 | | | |
| META PHOSPHATE | | 0.58 | | | 0.99 | | | |
| STABILITY | +0.3 | -0.6 | +0.1 | -0.8 | 0.0 | +0.1 | +0.2 | +0.1 |

REMARKS

CLW

0000004366

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, LACHAPELLE

DATE OF ANALYSIS: 22 MAY 1984

# CHEMICAL ANALYSIS — WATER TREATMENT PLANTS

MCBCL 11330/3 (REV. 3-82)

DATE COLLECTED: 29 MAY 1984

| PARAMETER SERIAL # 04-61 | 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) | 9.0 | 7.4 | 8.1 | 7.5 | 8.4 | 8.4 | 9.0 | 8.8 | |
| PENOLTHALEIN ALKALINITY | 8 | 0 | 0 | 0 | 4 | 2 | 6 | 14 | |
| METHYL ORANGE ALKALINITY | 50 | 180 | 80 | 160 | 160 | 156 | 56 | 160 | |
| CARBONATES AS $CaCO_3$ | 16 | 0 | 0 | 0 | 8 | 4 | 12 | 28 | |
| BICARBONATES AS $CaCO_3$ | 34 | 180 | 80 | 160 | 152 | 152 | 44 | 132 | |
| CHLORIDES AS Cl | 10 | 30 | 10 | 16 | 18 | 20 | 10 | 120 | |
| HARDNESS AS $CaCO_3$ | 50 | 82 | 98 | 60 | 56 | 38 | 54 | 50 | |
| IRON AS Fe | <0.04 | 0.62 | <0.04 | 0.08 | <0.04 | 0.06 | <0.04 | 0.07 | |
| FLUORIDE AM | 0.72 | | 0.89 | | | | 0.70 | | |
| FLUORIDE PM | 0.75 | 0.18 | 0.68 | 0.17 | 0.11 | 0.10 | 0.72 | 0.72 | |
| CHLORINE RESIDUAL | 1.0 | 1.4 | 1.1 | 1.6 | 1.5 | 0.8 | 0.7 | 1.2 | |
| TURBIDITY AM | 0.15 | | 0.22 | | | | 0.20 | | |
| TURBIDITY PM | 0.31 | 0.68 | 0.40 | 0.37 | 0.29 | 0.57 | 0.26 | 0.88 | |
| TOTAL PHOSPHATE | | 1.62 | | | 1.40 | | | | |
| ORTHO PHOSPHATE | | 0.96 | | | 0.04 | | | | |
| META PHOSPHATE | | 0.66 | | | 1.36 | | | | |
| STABILITY | +0.3 | -0.6 | -0.1 | -0.7 | +0.1 | -0.1 | +0.3 | +0.1 | |

REMARKS

CLW

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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, HUNEYCUTT

DATE OF ANALYSIS: 29 MAY 1984