20 DEC 1984

Mr. Robert F. Helms, Director Division of Environmental Management NC Department of Natural Resources and Community Development Post Office Box 27687 Raleigh, NC 27611

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit number NC 0003239, Discharge Monitoring Reports (DMRs) for the period September, October, and November 1984 are submitted:

Incomplete data is provided for the week 9-15 September 1984 due to the impact of Hurricane Diana on utilities and laboratory operations. After 9 September, the Biochemical Oxygen Demand (BOD) or Total Suspended Solids (TSS) were not run for the seven wastewater treatment plants. Also, the BODs reported for 6 September were seven-day BODs and the BODs for 7 September were six-day BODs, due to the laboratory being secured on 12 and 13 September 1984.

Rifle Range Wastewater Treatment Plant violated the NPDES permit requirement for monthly BOD percent removal average for October 1984. The violation is attributed to the low BOD loading. Influent and effluent monthly averages were 33 mg/l and 5 mg/l respectively.

Courthouse Bay Wastewater Treatment Plant violated the NPDES permit requirement for TSS percent removal average for November 1984 with an 80.4 percent. The violation is attributed to a faulty bearing in the center column of the trickling filter. The bearing has been replaced.

The storm drain violation depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the guarter were checked; however, each time they were checked they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges. 20. DEC 1984

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For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Director, Natural Resources and Environmental Affairs Division at (919) 451-5003/2083.

Sincerely,

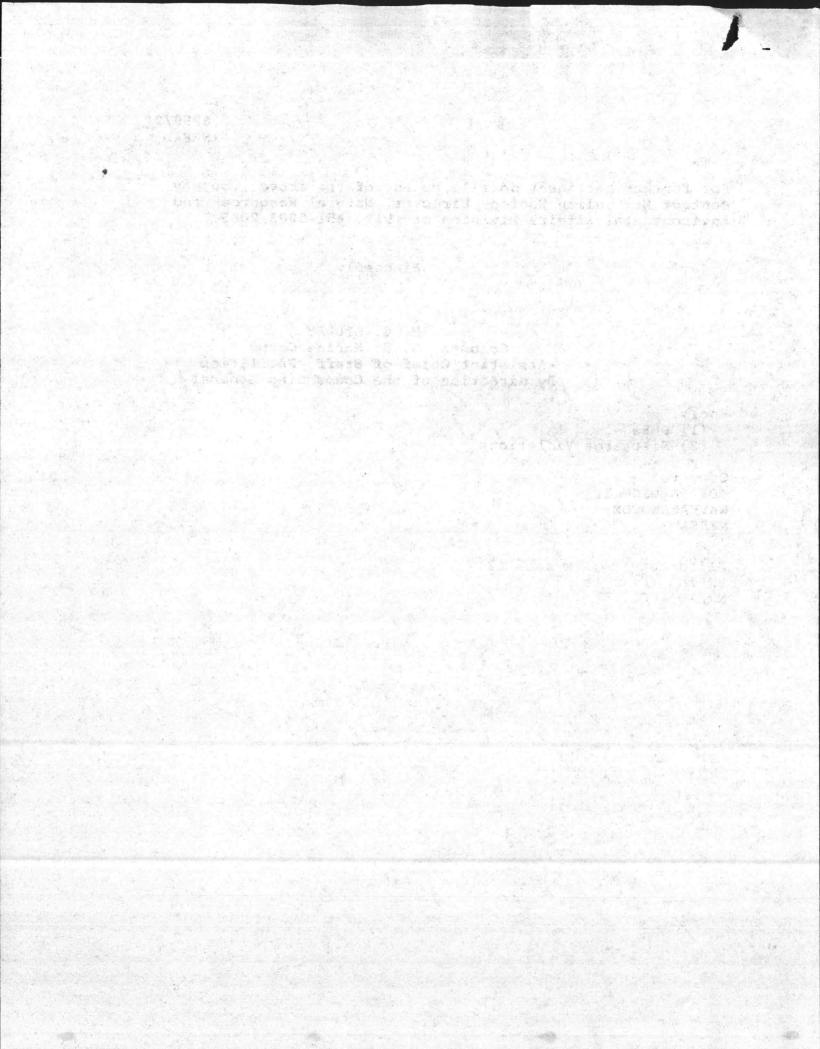
M. G. LILLEY Colonel, U. S. Marine Corps Assistant Chief of Staff, Facilities By direction of the Commanding General

Encls:

DMRs
 Discharge Violations

Copy to: EPA, REGION IV NAVFACENGCOM NEESA

Blind copy to: (w/encl (2)) BMAIND (Util Br) NREAD (OCL)



| NPDES PERMIT NO. NC000                   | 3239 VIOLATIONS FO | R THE PERIOD               | September, October | , November 1984  |
|--|--------------------|----------------------------|--------------------|------------------|
| Monitoring Station<br>or Storm Drain No. | Parameter          | Parameter<br><u>Limits</u> | Value              | Date             |
| SS 05                                    | BOD% Removal       | 85%                        | 84.8%              | October 1984     |
| SS 06                                    | TSS% Removal       | 85%                        | 80.4%              | November 1984    |
| SD 69                                    | рН                 | 6.0-9.0                    | 5.1                | 9 September 1984 |
| SD 28                                    | рН                 | 6.0-9.0                    | 9.1                | 26 November 1984 |
| SD 42                                    | TSS                | 50 mg/1                    | 295.2              | 26 November 1984 |
| SD 90                                    | рН                 | 6.0-9.0                    | 5.8                | 27 November 1984 |



20 DEC 1984

Mr. Robert F. Helms, Director Division of Environmental Management NC Department of Natural Resources and Community Development Post Office Box 27687 Raleigh, NC 27511

Dear Sir:

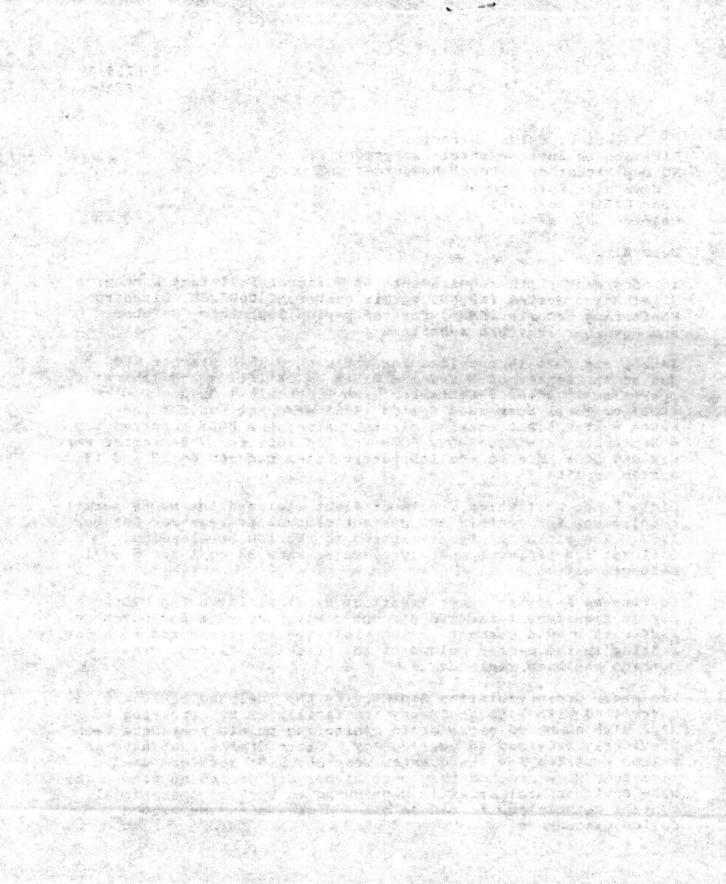
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Rifle Range Wastewater Treatment Plant violated the NPDES permit requirement for monthly BOD percent removal average for October 1984. The violation is attributed to the low BOD loading. Influent and effluent monthly averages were 33 mg/l and 5 mg/l respectively.

Courthouse Bay Wastewater Treatment Plant violated the NPDES permit requirement for TSS percent removal average for November 1984 with m80.4 percent. The violation is attributed to a faulty bearing in the center column of the trickling filter. The bearing has been replaced.

The storm drain violation depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the quarter were checked; however, each time they were checked they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.



For further pertinent details on any of the above, you may contact Mr. Julian Nooten, Director, Natural Resources and Environmental Affairs Division at (919) 451-5003/2083.

Sincerely,

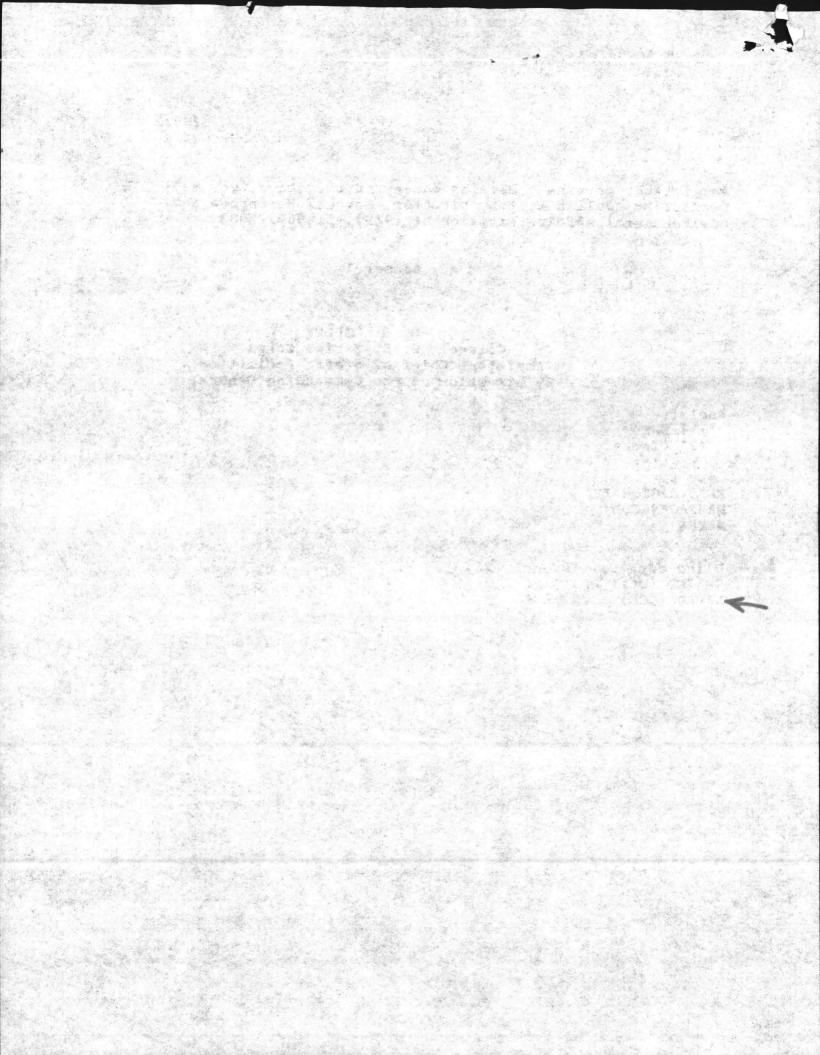
M. G. LILLEY Colonel, U. S. Marine Corps Assistant Chief of Staff, Facilities By direction of the Commanding General

Encls:

(1) DMRs
(2) Discharge Violations

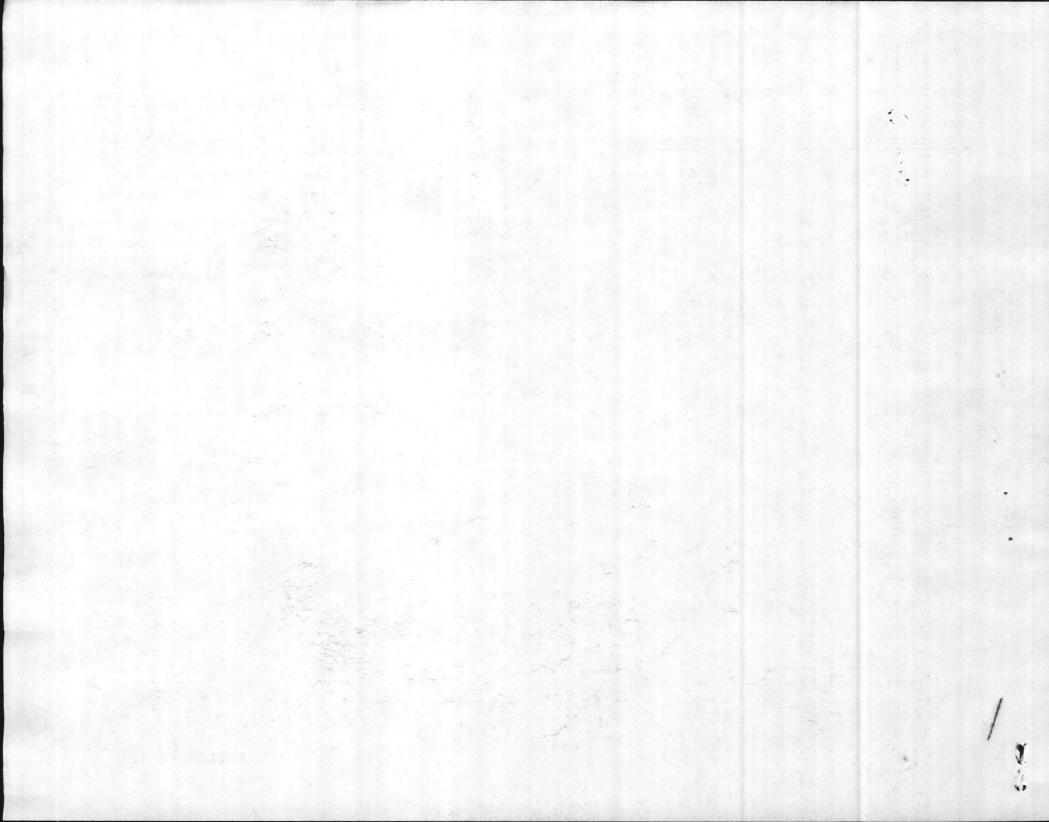
Copy to: EPA, REGION IV NAVPACENGCOM NEESA

Blind copy to: (w/encl (2)) BMAIND (Util Br) NREAD (QCL)



| NPDES PERMIT NO. NC000                   | 3239 VIOLATIONS FO | R THE PERIOD               | September, October | , November 1984  |
|--|--------------------|----------------------------|--------------------|------------------|
| Monitoring Station<br>or Storm Drain No. | Parameter          | Parameter<br><u>Limits</u> | Value              | Date             |
| SS 05                                    | BOD% Removal       | 85%                        | 84.8%              | October 1984     |
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| SD 28                                    | рН                 | 6.0-9.0                    | 9.1                | 26 November 1984 |
| SD 42                                    | TSS                | 50 mg/1                    | 295.2              | 26 November 1984 |
| SD 90                                    | рН                 | 6.0-9.0                    | 5.8                | 27 November 1984 |

11



Regional Administrator Region IV, Water Enforcement Branch 345 Courtland Street Atlanta, Georgia 30309

Dear Sir:

In accordance with theuirements of National Pollutant Discharge Elimination System (NPDES) permit number NCOOO3239, Discharge Monitoring Reports (DMRs) for the period September, October, November 1984 are submitted.

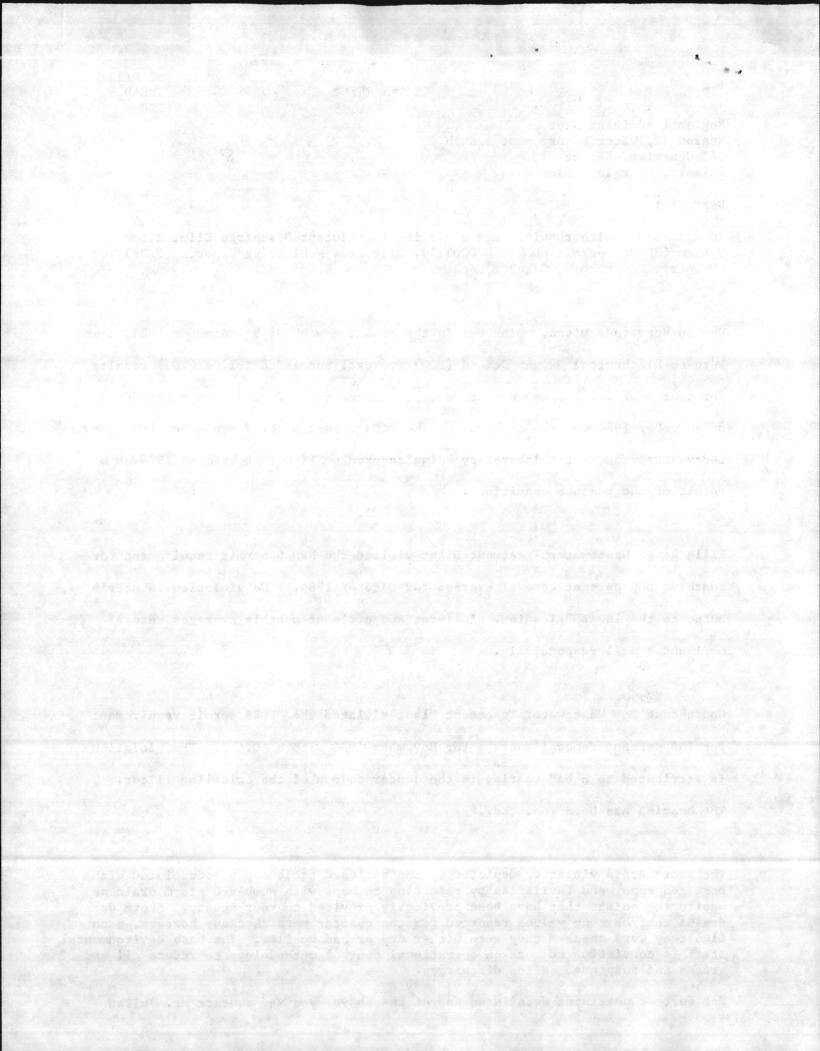
Due to Hurricane Diana, which was in the area the week of 9 September 1984, there were no Biochemical Oxygen Demand (BOD) or Tokal Suspended Solids (TSS) results for that week for the seven wastewater treatment plants. The BODs reported 66r 6 September 1984 were 7-day BODs and the BODs reported for 7 September 1984 were 6-day BODs, due to the laboratory beign secured on 12 & 13 September 1984 as a result of the weather conditions.

Rifle Range Wastewater Treatment Blant violted the NPDES permit requirement for monthly BOD percent removal average for October 1984. The violation is attrib buted to the low BOD loading. Influent and effluent monthly averages were 33 mg/1 and 5 mg/1 respectively.

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For further pertinent details on any of the above, you may contact Mr. Julian



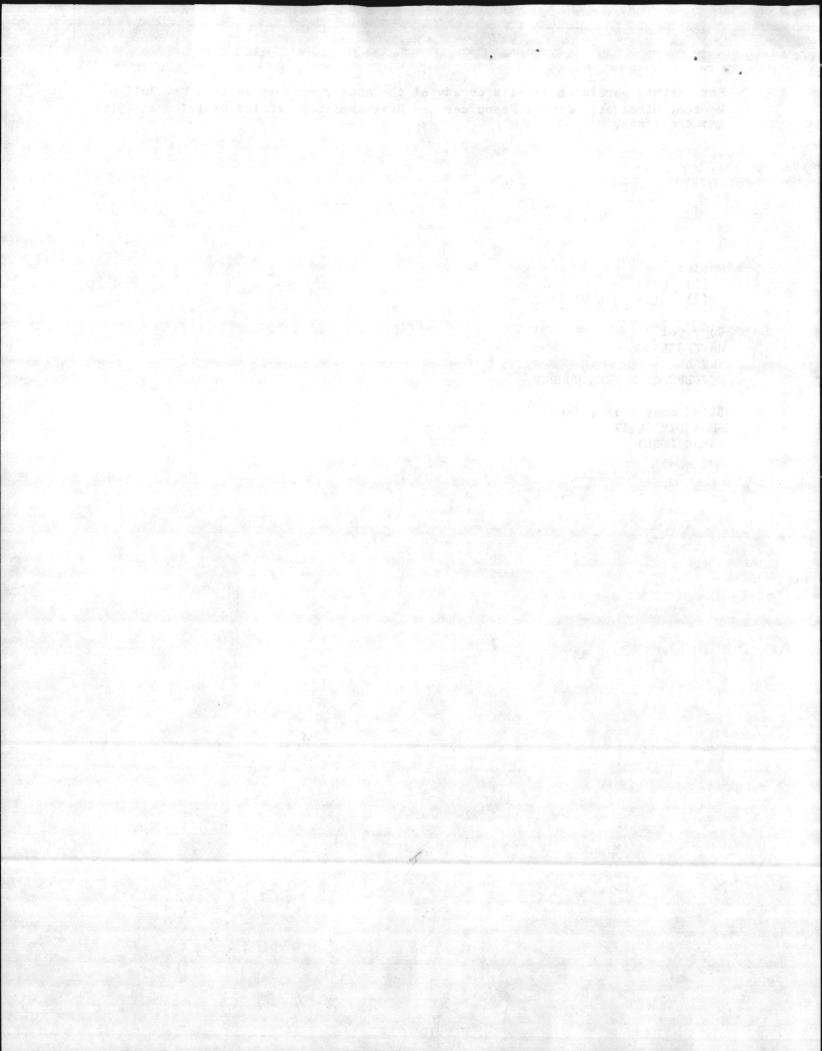
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Encls:

- (1) DMRs
- (2) Discharge Violations

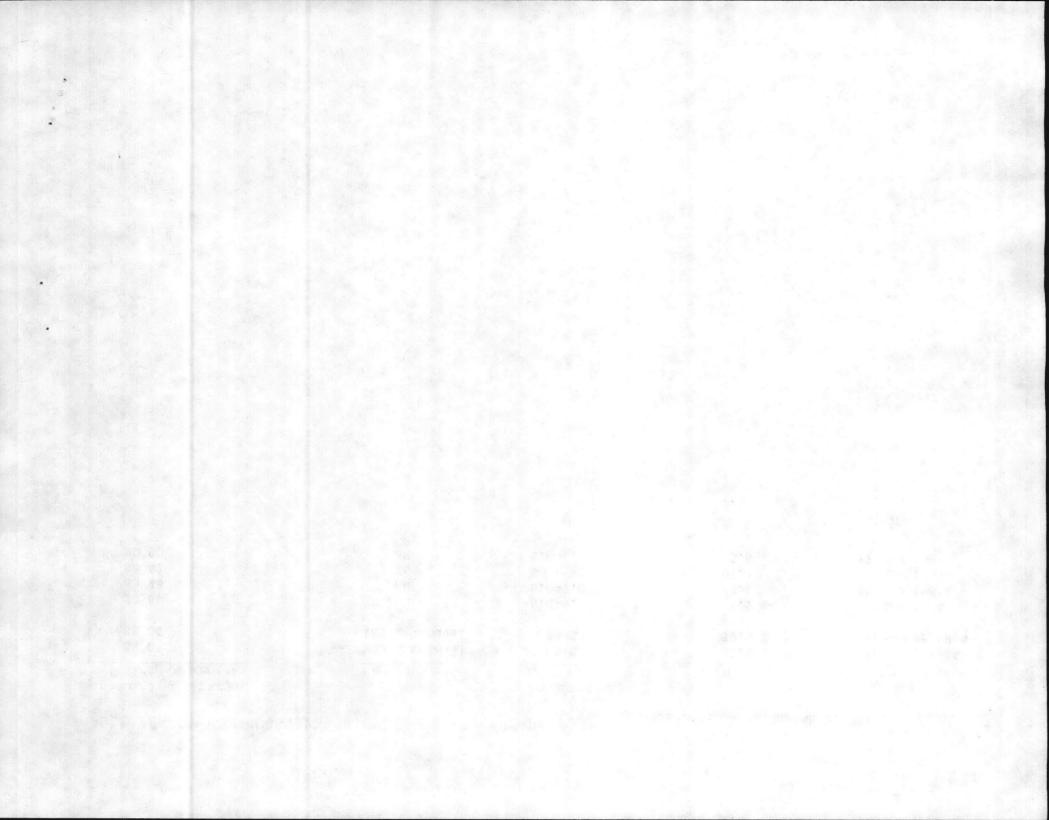
Copy to: NAVFACENGCOM NEESA NC DEPT OF NATRES&COMDEV

Blind copy to: (w/Encl (2)) BMAINDIV (Utli Br) NREAD (QCL)



NPDES PERMIT NO. NC0003239 VIOLATIONS FOR THE PERIOD \_\_\_\_\_\_ September, October, November 1984

Monitoring Station Parameter Parameter Limits . Value Date or Storm Drain No. October 1984 84.8 % 85 % BOD % Removal SS 05 November 1984 80.4 % TSS % Removal 85 % SS 06 .9 Sep 1984 6.0-9.0 5.1 pH SD 69 9.1 26 Nov 19884 6.0-9.0 pH SD 48 295.2 26 Nov 1984 50 mgg1 SD 42 TSS 27 Nov 1984 5.8 6.0-9.0 pH SD 90





### UNITED STATES MARINE CORPS Base Maintenance Division Marine Corps Base Camp Lejeune, North Carolina 28542

IN REPLY REFER TO 11345.1 MAIN 13 Dec 84

From: Sewage Disposal Plant Operator Foreman To: Director, Utilities Branch

Subj: NPDES PERMIT VIOLATION, BB-4

1. The Courthouse Bay Wastewater Treatment Plant, Building BB-4, violated the parameter for percent removal of SS for the month of November 1984, parameter being 85% removal. Removal for November was 80.4% SS.

2. The center column bearing on the trickling filter became very tight due to excessive wear. When this happened, the filter arm would not turn with normal flow. To get the arm to turn, the operator put on more pumps to force the arm to turn, causing an excessive hydraulic loading on the filter media.

3. The situation was corrected by replacing the bearing and repairing the center column.

M. D. DAVIS, JR.

11345 MAIN 13 Dec 84

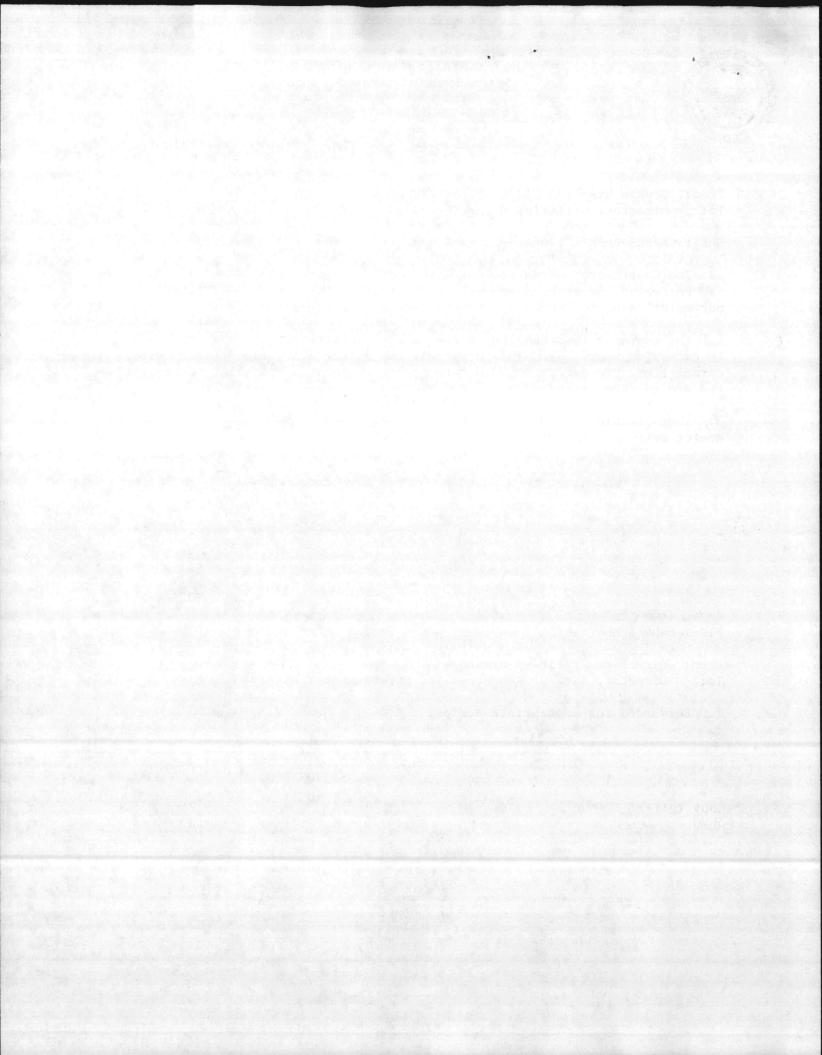
FIRST ENDORSEMENT

From: Director, Utilities Branch To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

B. S. Johnson . Jr. G. S. JOHNSON, JR.

Copy to: ABMO



### BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> 11345.4 MAIN 14 November 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES PERMIT VIOLATION, RR-92

1. The Rifle Range Wastewater Treatment Plant violated the parameter for percent removal of BOD for the month of October 1984, parameter being 85% removal. Actual BOD removal for October was 84.8%.

2. The average monthly influent BOD loading was 33 mg/l and an effluent average of 5 mg/l, with a high of only 53 mg/l influent and 9 mg/l effluent.

3. The permit violation is attributed to the low BOD loading recorded during the month.

W. R. PRICE

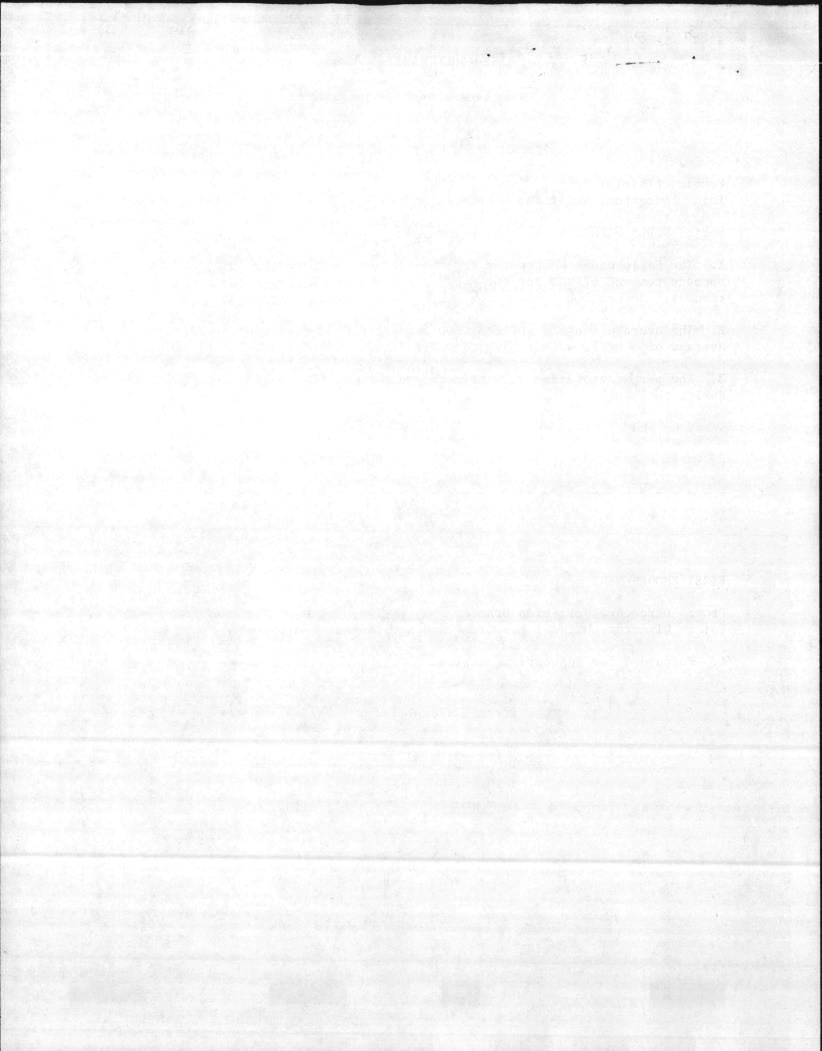
11345 MAIN 14 November 1984

FIRST ENDORSEMENT

From: Director, Utilities Branch To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G. S. Johnson, JR



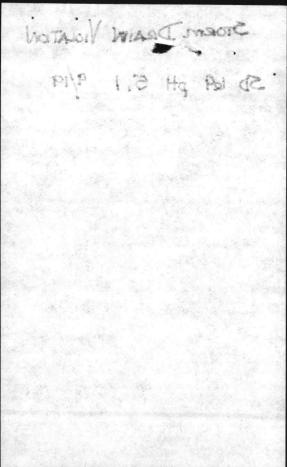
STORM DRAIN VIOLATION

# SD 69 pH 5,1 9/19

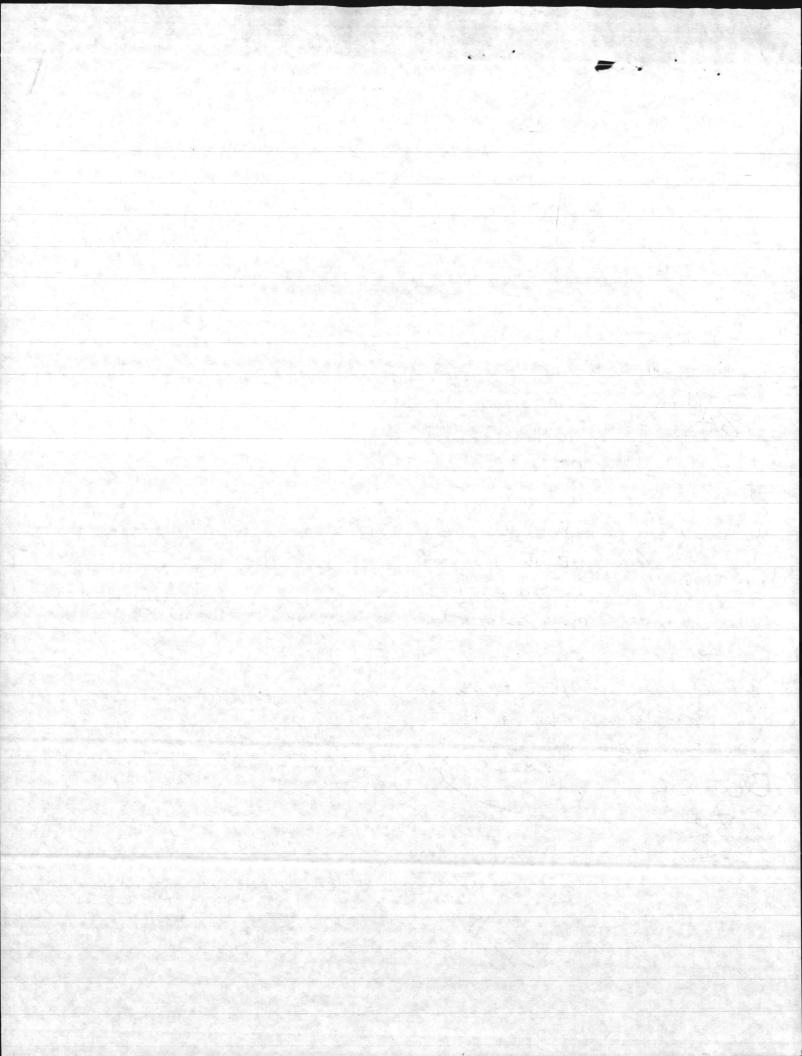
BEPT PLANTS OB 3 FLOWS (DURING DIANA) ALL PLANTS - 6 SEP - 7 DAY BOD TOP 4 - 7 SEP - 6 DAY BOD

ALL RANTS - WEEK OF 9-15 NO BOD OR SS - DIANA OGT PLANTS

RR - 800 % AVER 84.8% SD 28 pH 9.1 11/26/84 SD 90 pH 5.8 11/27/84 SD 42 55 295.2 11/26/84



% MON % 1% man pH G 1 FLOW - FLOW FLOW PH 7/4 % 1 Cl2 PH % 1 2 2 1 102 3 Z G 16 4 3 2 2 2 2 2 01,3 3 3 4 3 3 4 4 3 4 G 4 5 4 9 MON MONTHS CI, 5 5 % % MONIT 5 M OCT NOV 84 84 1-4 CG CG 1-5 CG 1-5 - 5-8 T TT 6-10 TT 6-10 CJ 9-12 CJ 11-15 CJ 11-15 HP 13-16 HP 16-19 HP 16-19 RR 17-20 RR 20-23 RR 20-23 CHB 21-24 CHB 24-27 CHB 24-27 OB 25-28 OB 28-31 OB 28-31 OB 28-29 OB WTP 32-33 OBWTP 32-33 RR 30-38 RW 34-42 RW 34-42 SD BUT OF SD- 39-82 SD 43-102 DUT OF OUT OF 42 102 82



| PERMITTEE NAME/ADDRESS (Include         Facility Name/Location if different)         NAME        Commanding_Genesal         ADDRESS        Companding_Genesal        Companding_Genesal        Companding_Genesal        Comp_Lejeune, NC        Comp_Lejeune, NC |   |   | 017ANT DISC<br>017ARGE MON<br>(2-16)<br>00003239<br>017 NUMBER  |  | ORT ( <i>DMR</i> )<br>(17-19)  | Onslow Beach                                | Water Tr                                    | eatn                      | Form App<br>OMB No. | 2000-001 |         |  |
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| PARAMETER<br>(32-37)  | N   | (3 Card Only) QU<br>(46-53)   | IANTITY OR LOADI  |  | (4 Card Only).<br>(38-45)  | (28-29) (.10-31)<br>QUALITY OR C<br>(46-53) | NOTE: Read instr<br>ONCENTRATION<br>(54-61) | uctions before            | NO.                 | T        | SAMPLE  |  |
|   |   | AVERAGE   | MAXIMUM   | UNITS  | MINIMUM  | AVERAGE                                     | MAXIMUM                                     | UNITS                     | (62-63              | ANALYSIS | (69.70) |  |
| 00403<br>pH Laboratory  | SAMPLE<br>MEASUREMEN                                    | T   | •   |  |  |   |   |                           |                     | 01/07    |         |  |
| W= GNOV 84  | PERMIT  | ·   |   |  | 6.0  | NO SAI                                      | YPLE 10.0                                   |                           |                     | 01/07    | Grab    |  |
| 00403<br>pH Laboratory  | SAMPLE  | ,   |   |  |  | •   |   |                           | 00                  | 01/07    | Grab    |  |
| W= 13 NOV 84  | PERMIT<br>REQUIREMENT                                   |   |   |  | 6.0  | 8.3   | 10.0  |                           |                     | 01/07    | Grab    |  |
| 00403<br>pH Laboratory  | SAMPLE  | r   |   |  |  |   |   |                           | 00                  | 01/07    | Grab.   |  |
| W= 207W84   | PERMIT  |   |   |  | 6.0  | 8.3   | 10.0  |                           |                     | 01/07    | t.      |  |
| 00403<br>pH Laboratory  | SAMPLE  |   |   |  |  |   |   |                           | 00                  | 01/07    | Grab    |  |
| W= 27 NOV   | PERMIT  |   |   |  | 6.0  | 1.8   | 10.0  | (* 1 <sup>1</sup> · · · · |                     | S.C.     | Grab    |  |
| 00403<br>pH Laboratory  | SAMPLE<br>MEASUREMENT                                   |   | ÷   |  | · · ·  | 0.  | 10.0  | -                         | -                   | 01/07    | Grab    |  |
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| PARAMETER<br>(32-37)  |  | (3 Card Only) QU<br>(46-53)  | ANTITY OR LOADIN<br>(54-61)  |   | 25) (20-27)<br>(4 Card Only)<br>(38-45)  | (28-29) (10-31)<br>QUALITY OR C<br>(46-53) | NOTE: Read Instru<br>ONCENTRATION<br>(54-61)  | ictions before | T                   | FREQUENCY        | 1 /     |
|   |  | AVERAGE  | MAXIMUM  | UNITS   | MINIMUM  | AVERAGE                                    | MAXIMUM   | UNITS          | - EX                | ANALYSIS (64-68) | (69-70) |
| 00530<br>Total Suspended Solids   | SAMPLE<br>MEASUREMEN                                 | T  |  |   | No   | SAMPLE                                     |   | mg/1           | 1                   | 01/07            | 8 HC    |
| W= 6NOU   | PERMIT   | •  |  |   |  | 30   | 50  |                |                     | 01/07            | Comp    |
| 00530<br>Total Suspended Solids   | SAMPLE   | т  |  |   |  | 29.3                                       |   | mg/1           |                     | 01/07            | 8 HC    |
| W= -17 NOV  | PERMIT   | · ***  |  |   |  | 30   | 50  |                |                     | 01/07            | Comp    |
| 00530<br>Total Suspended Solids   | SAMPLE   | T ·  |  |   | KI0  | Spaple                                     | and the second se | mg/1           | 00                  | 01/07            | 8 HC.   |
| W= 20 NOV   | PERMIT   |  |  |   |  | 30   | 50  |                |                     | 01/07            | Comp    |
| 00530<br>Total Suspended Solids   | SAMPLE<br>MEASUREMEN                                 | r  |  |   | 1999 - 1999<br>1999 - 1999   | 2.4  | 56  | mg/1           | 00                  | 01/07            | 8 HC    |
| W= 27 NOV   | PERMIT   | ·  |  | and the second  |  | 30   | 50  |                |                     | 01/07            | Comp    |
| Total Suspended Solids  | SAMPLE   | r  | ·  |   |  |  |   | mg/1           | 00                  | 01/07            | 8 HC    |
| W= •  | PERMIT   |  |  | •   |  | 30   | 50  |                |                     | 01/07            | Comp    |
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| Financial and                       |               |                             |                                      |  |   |               |          |             |      |  |   |
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|                                     |               |                             |                                      |  |   |               |          |             |      |  |   |
|                                     |               |                             |                                      |  |   |               |          |             |      |  | All   |
|                                     |               |                             |                                      |  |   |               |          |             |      |  |   |
|                                     |               |                             |                                      |  |   |               |          |             |      |  |   |
|                                     |               |                             |                                      |  |   |               |          |             |      |  | 1   |
|                                     |               |                             |                                      |  |   |               |          |             |      |  |   |
| in in the state of the state of the |               |                             |                                      |  |   |               |          |             |      |  |   |

6280/2 NREAD 28 SEP 1984

Regional Administrator Environmental Protection Agency Region IV, Water Enforcement Branch 345 Courtland Streat Atlanta, Georgia 30309

Dear Siri

In accordance with requirements of National Pollutant Discharge Elimination System (HPDES) permit number NC0003239, Discharge Nonitoring Reports (DNRs) for the period June, July and August 1984 are submitted.

Rifle Range Nastewater Treatment Flant viclated the NFDES permit requirement for monthly Biochemical Oxygen Demand (BCD) percent removal average for July 1984. The violation is attributed to the low BOD leading. Influent and effluent monthly averages were 25 mg/1 and 4 mg/1 respectively.

The storm drain violation depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the quarter were checked; however, each time they were checked they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.

For further portinent details on any of the above, you may contact Mr. Julian Wooten, Director, Natural Resources and Environmental Affairs Division at (919) 451-5003/2083.

Sincerely,

M. G. LILLEY Colonel, U. S. Marine Corps Assistant Chief of Steff, Pacilities By direction of the Commanding General

NREAD (QCL)

Focle:

DNRs
 Discharge Violations

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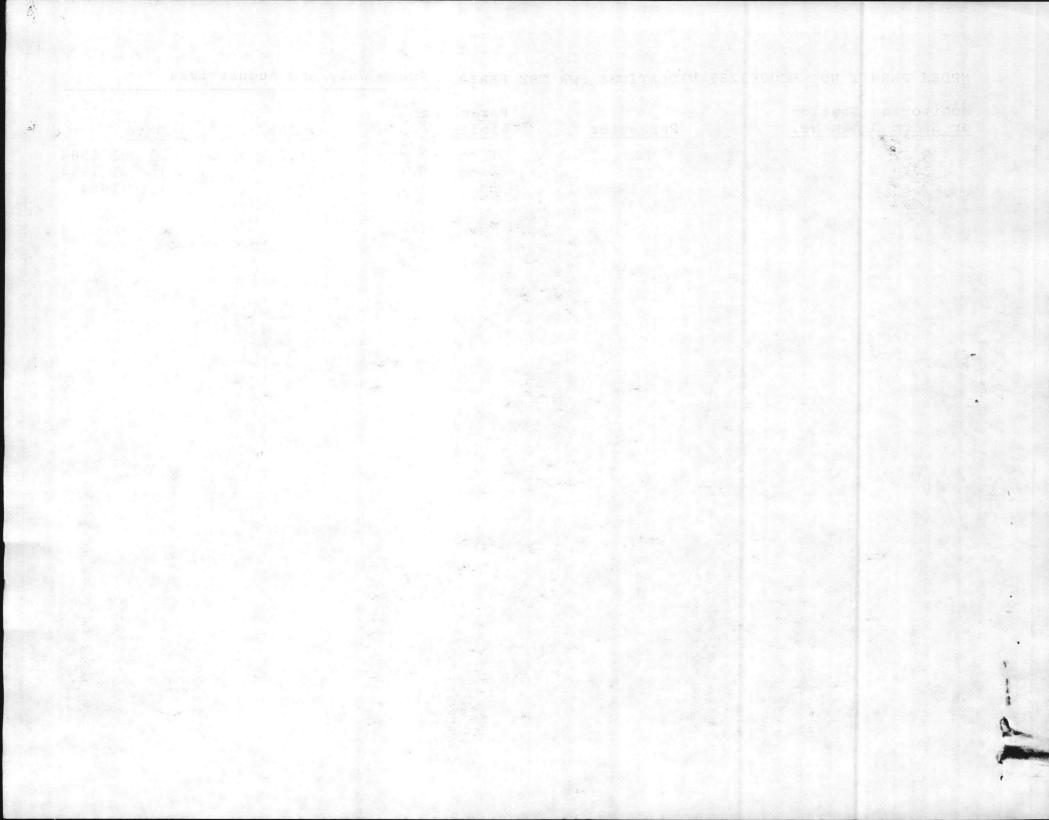
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AN PROVIDE

NPDES PERMIT NO. NC0003239 VIOLATIONS FOR THE PERIOD June, July and August 1984

-

| Monitoring Station<br>or Storm Drain No. | Parameter    | Parameter<br>Limits | Value | Date        |
|--|--------------|---------------------|-------|-------------|
| SS 14                                    | TSS          | 30 mg/1             | 31.0  | 10 Jul 1984 |
| SD 42                                    | TSS          | 50 mg/1             | 58.4  | 24 Jul 1984 |
| SS 05                                    | BOD% Removal | 85%                 | 84.0% | July 1984   |



W

## BASE MAINTENANCE DIVISION Marine Corps Base Camp Lejeune, North Carolina 28542

11345.4 MAIN 8 August 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, RR-92

1. The Rifle Range Wastewater Treatment Plant violated the parameter for percent removal bo BOD for the month of July 1984, parameter being 85% removal. Actual BOD removal for July was 84%.

2. The average monthly influent BOD loading was 25 mg/l and an effluent average of 4 mg/l, with a high of only 44 mg/l influent and 6 mg/l effluent.

3. The permit violation is attributed to the low BOD loading recorded during the month.

#### W. R. PRICE

....

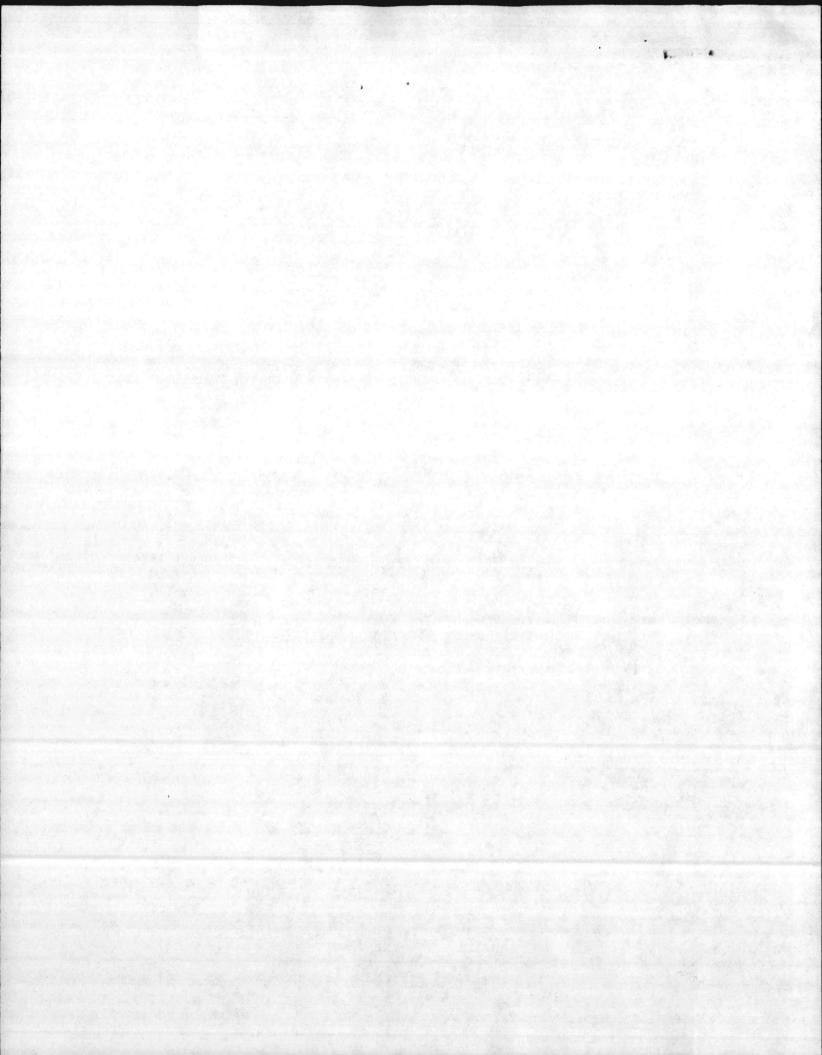
11345 MAIN 8 August 1984

FIRST ENDORSEMENT

From: Director, Utilities Branch To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G. S. Johnson, Jr.



S/N 0107-LF-052-2320

10-4-84

# Memorandum

DATE: 4 June 1984

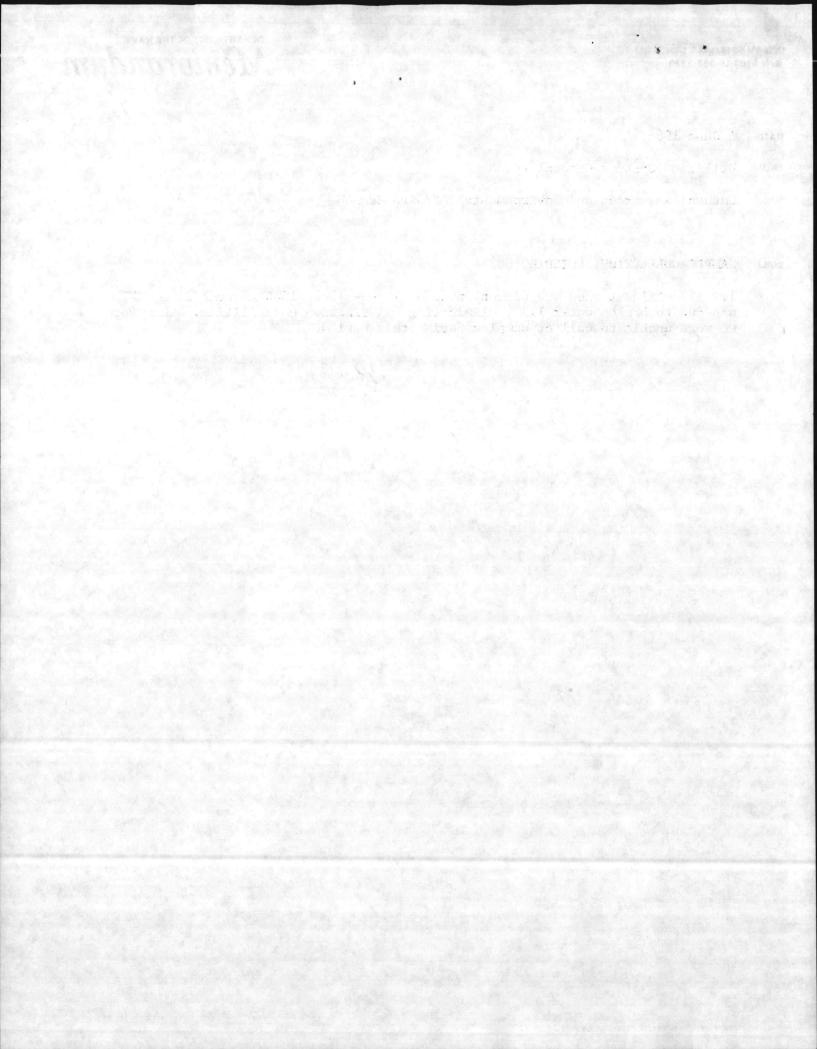
FROM: Utilities Systems General Foreman

TO: Natural Resources and Environmental Affairs Branch

SUBJ: SAMPLE COLLECTION, BUILDING 683

1. All effluent flow was discontinued on 1 June 1984, 1500 through 2200; this was due to broken water line, eliminating chlorination capabilities. Therefore, we were unable to collect samples during this period.

W. R. PRICE



## 4 June 1984

Utilities Systems General Foreman

Natural Resources and Environmental Affairs Branch

## SAMPLE COLLECTION, BUILDING 683

1. All effluent flow was discontinued on 1 June 1984, 1500 through 2200; this was due to broken water line, eliminating chlorination capabilities. Therefore, we were unable to collect samples during this period.

W. R. PRICE

4 June 1964

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SAMELE COLLECTION, LUISTIN 4 603.0

 Alt effluent flow was lesson inned on 1. 1964; [200 through 200, chide was due to proten water lie, eliminating in chiniten capabilities. Therefore, or werd wholes to collect addites forth, this period.

The Surger Starting

Regional Administrator Environmental Protection Agency Region IV, Water Enforcement Branch 345 Courtland Street Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit number NCO003239, Discharge Monitoring Reports (DMRs) for the period June, July and August 1983 are submitted.

Rifle Range Wastewater Treatment Plant violated the NPDES permit requirement for

monthly Baochemical Oxygen Demand (BOD) percent removal avezzggefor July 1984. The

The BOD influent concentrations were extremely low, with a monthly average of 25 mg/l and a maximum value of only 444mg/l. The

25 mg/1 and a maximum value of mnly 44 mg/1. The BOD effluent average was only

4 mg/1. The violation is attributed to the low BOD loading recorded during the mont

month.

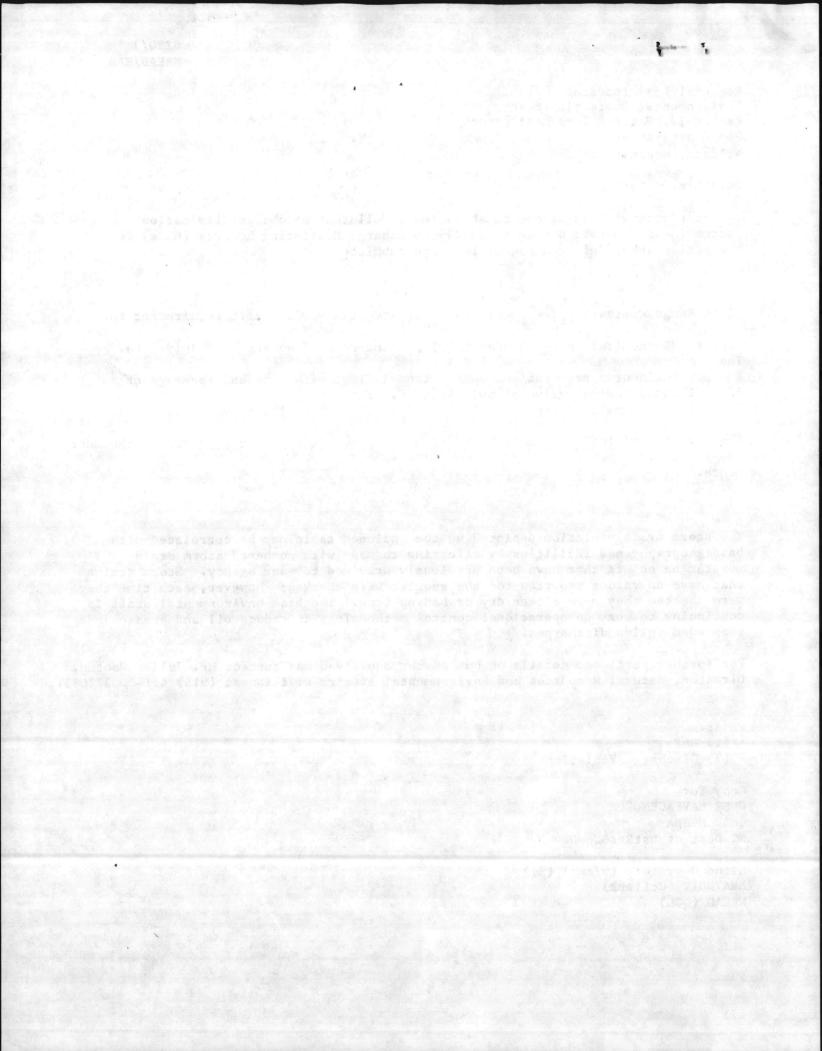
The storm drain violation depicted by the enclosed table may be correlated with base geography mad facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the quarter were checked; however, each time they were chekked they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.

For further pertinent details on amy of the above, you may contact Mr. Julian Wooten, Director, Natural Resources and Environmental Affairs Division at (919) 451-5003/2083.

Encls: (1) DMRs (2) Discharge Violations

Copy To: CMDR NAVFACENGCOM CMDR NEESA NC Dept of NatRes&ComDev

Blind Copy to: (w/encl (2)) BMAINDIV (UtilBB) NREAD (QCL)



PLANT : \_\_\_\_

| MONTH | :~ | UNE |
|-------|----|-----|
| -     |    |     |

YEAR: 1984

|           |             | BOD   | NT AVE  |              | TSS |         |             | DAM               |
|-----------|-------------|-------|---------|--------------|-----|---------|-------------|-------------------|
| WEEK OF : | #<br>SAMPLE | ma/L  | LBS/DAY | #<br>SAMPLE  | mel | LBS     | #<br>SAMPLE | GEOMETRIC<br>MEAN |
|           |             | (DOD) |         | 1.208.5      |     | a salah | 12          | dia.tar           |
| 1-2-      | ·           | 1     | 1.4     | 1.18         |     |         |             |                   |
| 3-9       |             |       |         | di di second |     |         |             |                   |
|           |             |       | 1       |              |     |         |             |                   |
| 10-16     |             |       | 1.      |              |     |         | 4<br>       |                   |
| 17-23     |             |       |         |              |     |         |             |                   |
| 24-30     |             |       |         |              |     |         |             |                   |
| MONTHLY   |             |       | 29      |              |     |         |             |                   |

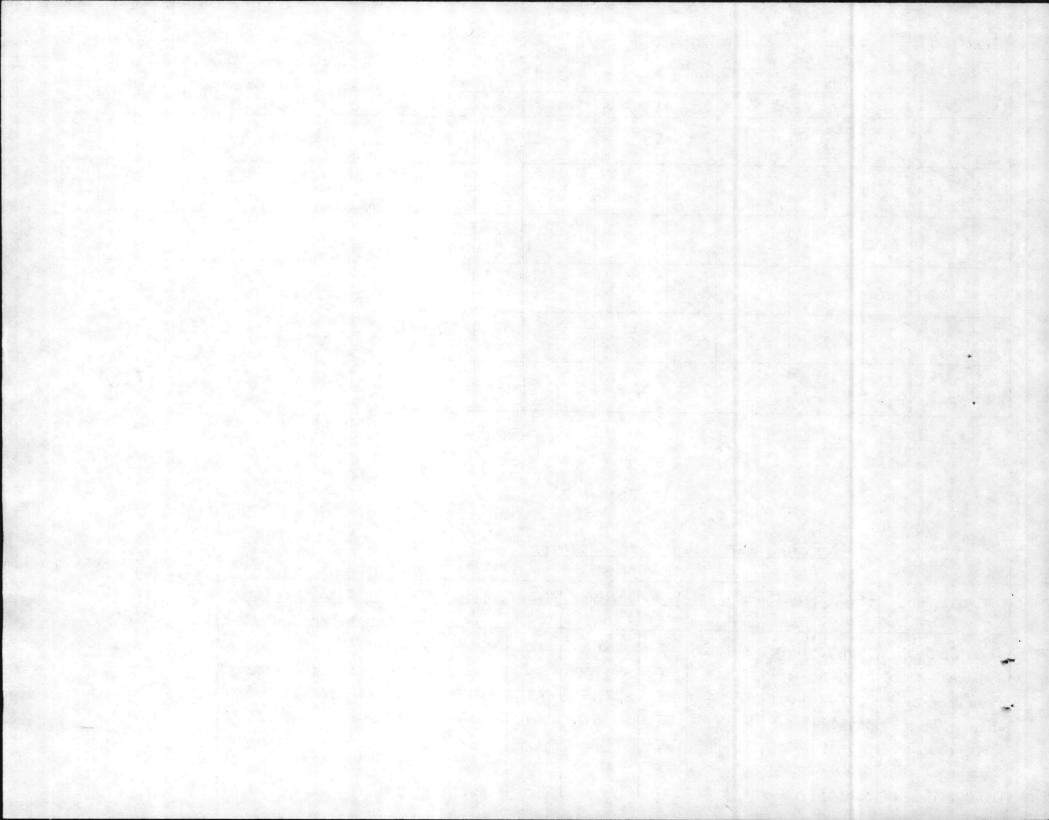
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| DENT     | AVERA   | GES  | г   |   |
|----------|---|--|---|---|
|          | BOD<br>mg/  | TSS<br>mg/   |   | рН  |
| GPD      | 12  |  | PPM   |   |
|          |   |  |   |   |
|          | 1.  |  |   |   |
|          |   |  |   |   |
|          |   |  |   |   |
|          |   |  |   |   |
| 1-5      |   |  |   |   |
| 6-10     | C   | 6  |   |   |
| 11-15    |   | 100  | To  | F   |
| 16-19    |   |  |   |   |
| -        |   | (  | No  |   |
| 3 24 - Z | 7   |  | e O   |   |
|          | DAILY FLOW<br>GPD<br>1-5<br>6-10<br>11-15<br>16-19<br>20-23 | DAILY FLOW BOD<br>GPD mc/L<br>1-5<br>6-10<br>11-15 | GPD mg/L mg/L<br>1-5<br>6-10<br>11-15<br>16-19<br>20-23 | DAILY FLOW BOD TSS CL2<br>GPD MG/L MG/L PPM<br>1-5<br>6-10<br>11-15<br>16-19<br>20-23 (0) |

OB 28-31

68 OB WTP 32.33 RW 34-42 SD 43-68

|                | RER     | 2m(r  | REC  | UIRE         | EMEN  | TS + LIN        | NITS. |                |      |       |                |         |
|----------------|---------|-------|------|--------------|-------|-----------------|-------|----------------|------|-------|----------------|---------|
|                |         |       |      | Ba           | D +   | T55             |       | 201 1 1 1      | 1.18 | COLI  | FORM           |         |
| PLANT          | SERIAL  | FLOW  | #SAM | PLES         | WEEKL | WEEKLY AVERAGES |       | MONTH AVERAGES |      | LES   | GEOMETRIC MEAN |         |
| ILANI          | #       |       | PER  | PEE<br>MONTH | me/L  | LES/DAY         | mg/L  | LBS            | PER  | MONTH | WEEKLY         | MONTHLY |
| CAMP GEIGER    | 5501/11 | 1.60  | 2    | 8            | 45    | 400.8           | 30    | 400.6          | 2    | 8     | \$00(F)        | 200 (F) |
| TARAWA TERRACE |         | 1.1   | 2    | 8            | 45    | - 469.4         | 30    | 312.9          | 2    | 8     | 400 (F)        | 200(F)  |
| - CAMP JOHNSON | 5503/13 |       | 2    | 8            | 45    | 375,5           | 30    | Z50.3          | 2    | 8     | 400(F)         | 200(F)  |
| HADNOT POINT   | 5504/14 |       | 5    | 20           | 45    | 3004.2          | 30    | 2002,8         | 3    | 12    |                | .70(T)  |
| RIFLE RANGE    | 5505/15 | 1     | 1    | 4            | 45    | 197.1           | 30    | 131,4          | 1    | 4     |                | 70(7)   |
| COVETHOUSE BAY | 5506/16 |       |      | 4            | 45    | 195.1           | 30    | 131,4          | 1    | 4     |                | 70(T)   |
| ONSLOW BEACH   | 5507/17 | 0.200 |      | 4            | 45    | 15.1            | 30    | 50,1           | 1    | 4     |                | 1 70(T) |



PLANT : \_

| MONTH | JULY   |  |
|-------|--|--|
|       | ·· Congeneration of the second s |  |

YEAR: 1984

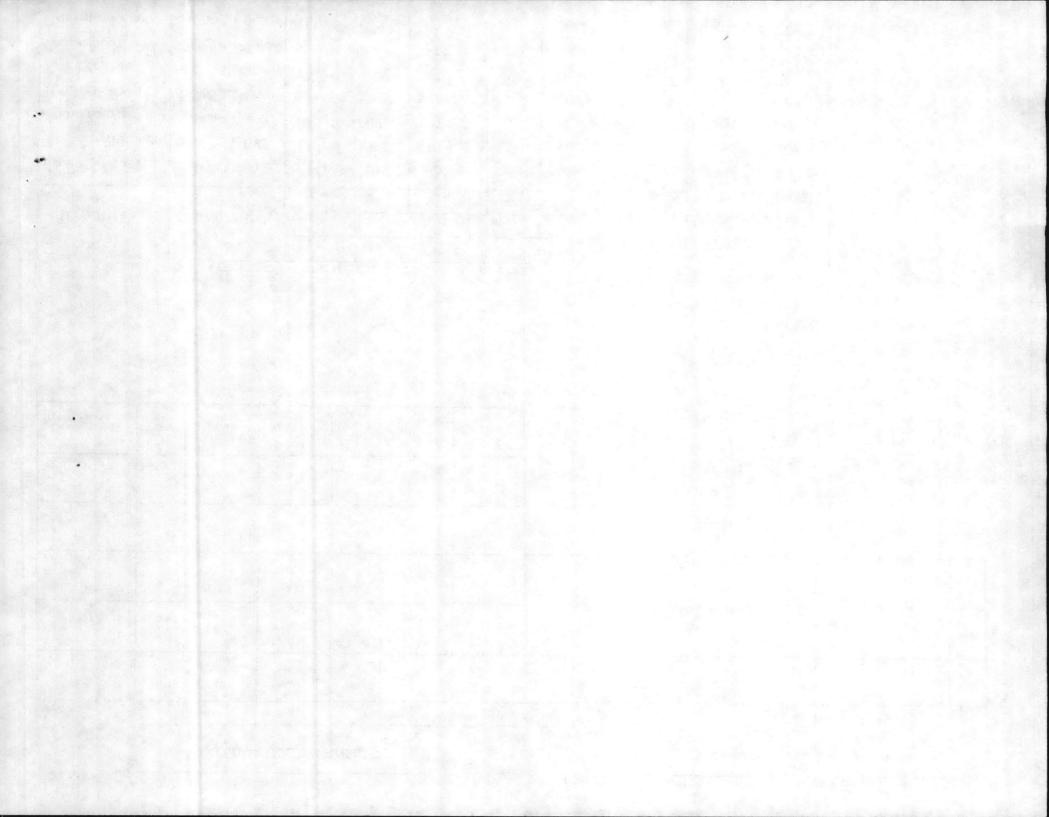
|           | 1.1.1       | EFFLUE        | INT AVE    |             |                |                |             |                   |
|-----------|-------------|---------------|------------|-------------|----------------|----------------|-------------|-------------------|
|           | 1.1.1.1.    | BOD           | •          |             | TSS            | COLIFORM       |             |                   |
| WEEK OF : | #<br>SAMPLE |               | LBS/DAY    | #<br>SAMPLE | mGL            | LBS            | #<br>SAMPLE | GEOMETRIC<br>MEAN |
|           | 12.444      |               | 1 16.37    | 1 Constant  |                |                | - Charles   |                   |
| 1-7       |             |               |            | 1997        |                |                |             |                   |
|           |             |               | a fa daran |             |                |                |             |                   |
| 8-14      |             |               |            |             | and the second |                |             |                   |
|           |             |               |            | 1000        |                |                |             |                   |
| 15-21     |             |               | P. P. S.   |             |                |                |             |                   |
|           |             | 1 and a start |            |             |                | 1 Anna         | in sers     | ale la la la      |
| 22-28     |             |               |            |             |                |                |             |                   |
|           |             |               |            |             |                |                |             |                   |
| 29-3)     |             |               |            |             |                | 1. 1. 1. 1. 1. |             |                   |
|           |             |               | 1.6.85     |             | and the        | A Startes      |             |                   |
| MONTHLY   | 188.        |               |            |             |                |                |             |                   |

|         | DAILY FLOW<br>GPD | BOD<br>mc/L | TSS<br>mg/L | Ci2<br>PPm | pН  |
|---------|-------------------|-------------|-------------|------------|-----|
| AVERAGE |                   |             |             |            | -   |
| Maximum |                   |             |             |            | 194 |
| MINIMUM |                   |             |             |            |     |

CG 1-5 TT 6-10 CJ 11-15 HP 16-19 PR 20-23 CHB 24-27 OB 28-31 OB WTP 32-33 RW 34-42 SD 43-50

OUT OF

|                | RER            | emit  | REC  | DUIRE | EMEN  | TS + LIN   | nits.          |        |          |      |                |              |
|----------------|----------------|-------|------|-------|-------|------------|----------------|--------|----------|------|----------------|--------------|
|                | and the second |       |      |       |       | T55        |                | 4      |          | COLI | FORM           |              |
| PLANT          | SERIAL         | FLOW  | #SAM | PLES  | WEEKL | 1 AVERAGES | MONTH AVERAGES |        | *SAMPLES |      | GEOMETRIC MEAN |              |
| I LAIN I       | #              |       | PER  | MONTH | me/L  | LBO/DAY    | mc/L           | LBS    | PER      | PER  | WEEKLY         | MONTHLY      |
| CAMP GEIGER    | 5501/11        | 1.60  | 2    | 8     | 45    | 400.8      | 30             | 400.6  | 2        | 8    | \$00(F)        | 200 (F)      |
| TARAWA TERRACE |                |       | 2    | 8     | 45    | 469.4      | 30             | 312.9  | 2        | 8    | 400 (F)        | 2005         |
| - CAMP JOHNSON | 5503/13        | 1.12  | 2    | 8     | 45    | 375,5      | 30             | 250.3  | Z        | 8    | 400(F)         | 200(F)       |
| HADNOT POINT   | 5504/14        | 8.00  | 5    | 20    | 45    | 3004.2     | 30             | 2002,8 | 3        | 12   | S. C.          | .70(T)       |
| RIFLE RANGE    | 5505/15        | 0.525 | 1    | 4     | 45    | 197.1      | 30             | 131,4  | 1        | 4    |                | 70(7)        |
| COURTHOUSE BAY | 5506/16        | 0.525 | 1    | 4     | 45    | 195.1      | 30             | 131.4  | 1        | 4    |                | 70(T)        |
| ONSLOW BEACH   | 5507/17        | 0.200 | 1    | 4     | 45    | 15.1       | 30             | 50,1   | li       | 14   | I. and the     | $7\alpha(T)$ |



PLANT : \_

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ST YEAR: 1984

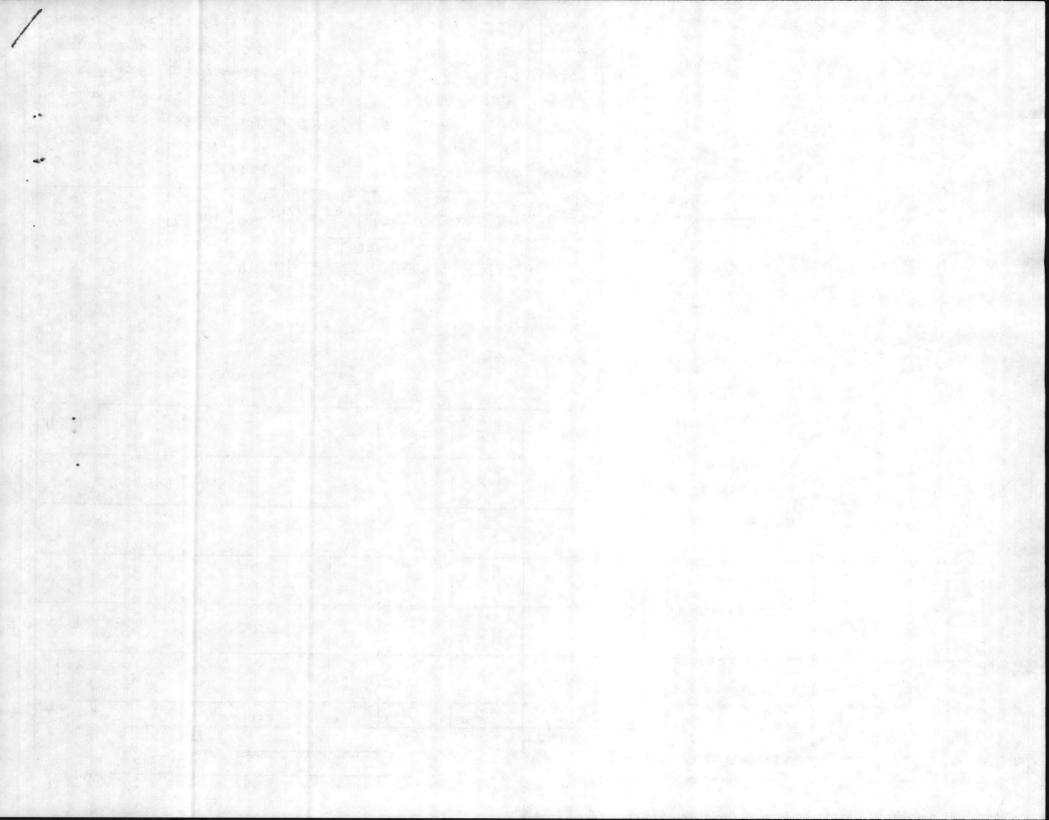
|                  | 1        |      | ENT AVE    | RAGE        |     |                | 1.         |                   |  |
|------------------|----------|------|------------|-------------|-----|----------------|------------|-------------------|--|
|                  |          | BOD  |            |             | TSS |                | COLIFORM   |                   |  |
| WEEK OF :        | # SAMPLE | me/L | LBS/DAY    | #<br>SAMPLE | mGL | LBS            | SAMPLE     | GEOMETRIC<br>MEAN |  |
| A State State As |          |      | a dina sin | 7 元教会表      |     | an liter i e c | S. Wash    | 1.                |  |
| 1-4              |          |      |            |             |     |                |            |                   |  |
| 5-11             |          | 199  |            |             |     |                |            |                   |  |
|                  |          |      |            | e salisi    |     |                |            |                   |  |
| 12-18            |          |      |            |             |     | A STREET       |            |                   |  |
|                  |          |      |            |             |     |                | 1 Seller   |                   |  |
| 19-25            |          |      |            |             |     |                | The Street |                   |  |
|                  |          |      |            |             |     |                |            |                   |  |
| 26-31            |          |      |            |             |     |                |            |                   |  |
|                  |          |      |            | a same      |     | Server St      |            |                   |  |
| MONTHLY          |          |      |            |             |     |                | 1199       |                   |  |

|         | DAILY FLOW<br>GPD | BOD<br>mg/L | TSS<br>mg/L | CL2<br>PPM | рН |
|---------|-------------------|-------------|-------------|------------|----|
| AVERAGE |                   |             |             |            |    |
| Maximum |                   |             |             |            |    |
| MINIMUM |                   |             |             |            |    |

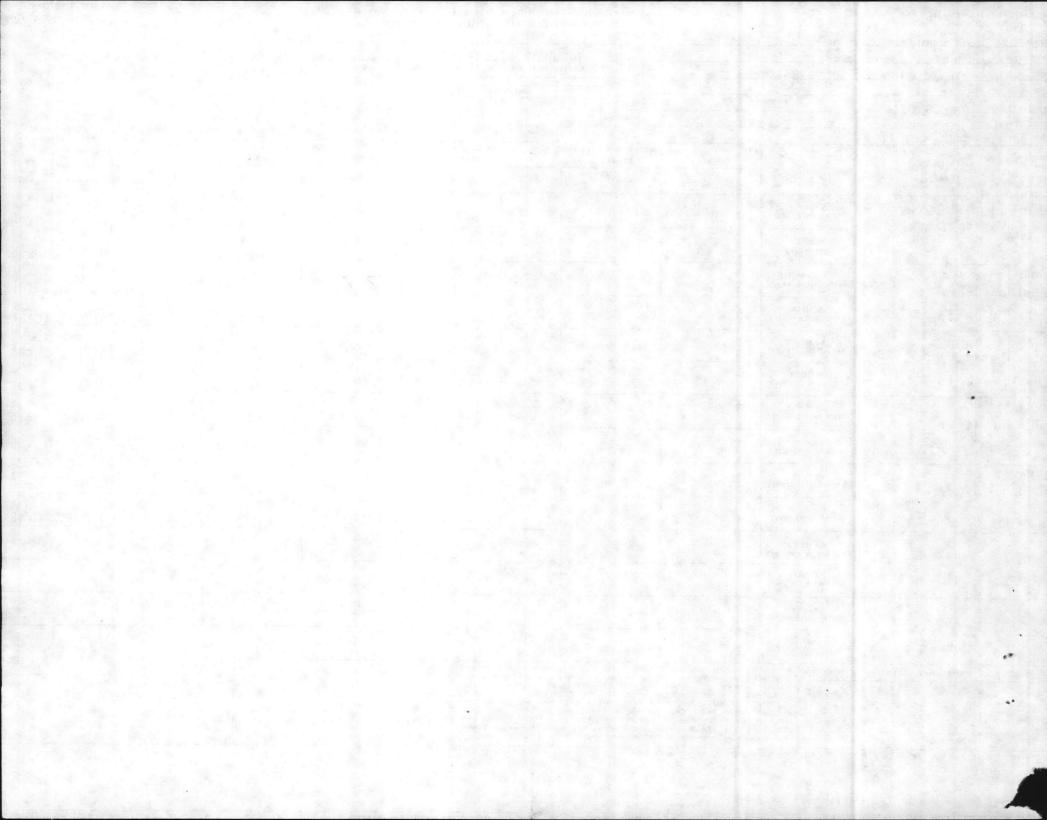
| CG 1-5       |
|--------------|
| TT 6-10      |
| CJ 11-15     |
| HP 16-19     |
| RE 20-23     |
| CHB 24-27    |
| OB 28-31     |
| OB WTP 32-33 |
| RW 34-42     |
| 50 43-68     |

|   |     | _  |
|---|-----|----|
| / | OUT | OF |
|   | 68  |    |

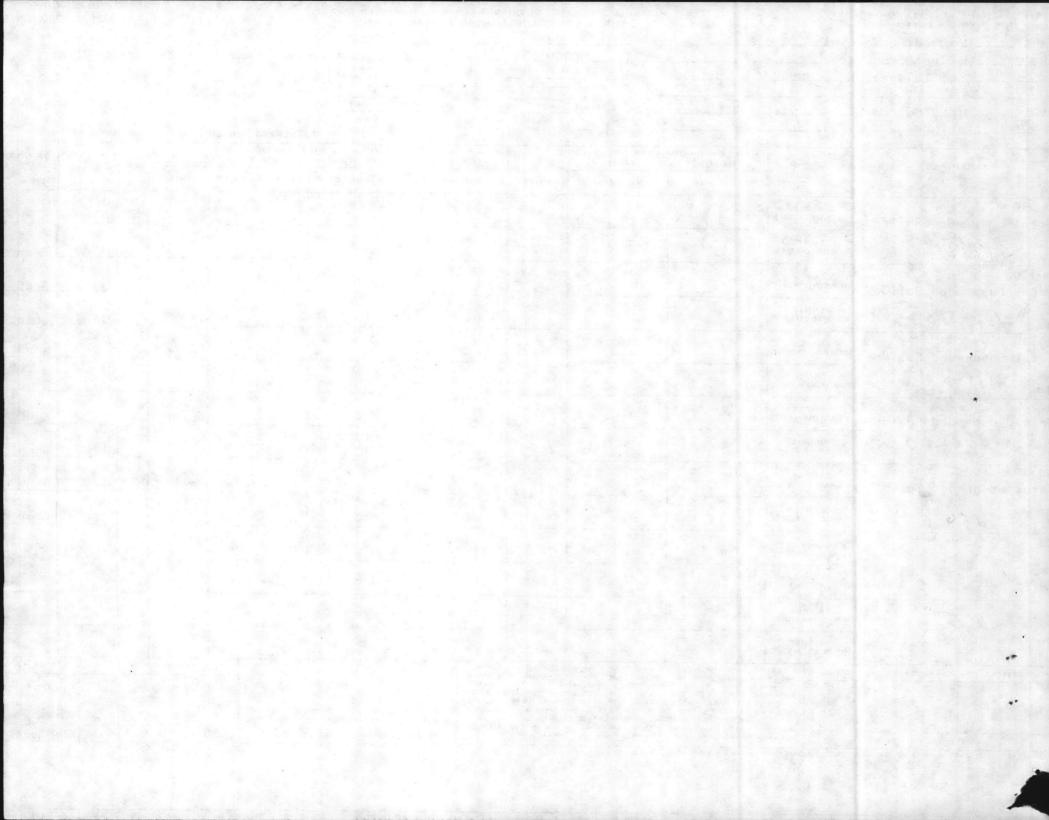
|                | REA     | emit                         | REC       | DUIRE | EMEN   | TS + LIN | nits_ |          |          |     |          |         |  |  |
|----------------|---------|------------------------------|-----------|-------|--------|----------|-------|----------|----------|-----|----------|---------|--|--|
|                |         |                              | BOD + TSS |       |        |          |       |          | COLIFORM |     |          |         |  |  |
| PLANT          | SERIAL  | FLOW                         | #SAM      | PIES  | WEEKLY | AVERAGES | MONTH | AVERAGES | #SAMP    | LES | GEOMETRI | MEAN    |  |  |
| TLANT          | #       |                              | PER       |       | me/L   | LBS/DAY  | mc/L  | LBS/DAY  | PER      | PER |          | MONTHLY |  |  |
| CAMP GEIGER    | 5501/11 | 1.60                         | 2         | 8     | 45     | 400.8    | 30    | 400.6    | 2        | 8   | \$00(F)  | 200 (F) |  |  |
| TARAWA TERRACE | 5502/13 | 1.25                         | 2         | 8     | 45     | 469.4    | 30    | 312.9    | 2        | 8   | 400 (F)  | 200(F)  |  |  |
| . CAMP JOHNSON | 5503/13 | Carlos and the second second | 2         | 8     | 45     | 375,5    | 30    | 250.3    | 2        | 8   | 400(F)   | 200(F)  |  |  |
| HADNOT POINT   | 5504/14 | Section 200                  | 5         | 20    | 45     | 3004.2   | 30    | 2002.8   | 3        | 12  | 1212-1   | 70(T)   |  |  |
| RIFLE RANGE    | 5505/15 |                              | 1         | 4     | 45     | 197.1    | 30    | 131.4    | 1        | 4   |          | 70(7)   |  |  |
| COURTHOUSE BAY | 5506/16 |                              |           | 4     | 45     | 195.1    | 30    | 131.4    | 1        | 4   |          | 70(T)   |  |  |
| ONSLOW BEACH   | 5507/17 | 0.200                        | li        | 4     | 45     | 15.1     | 30    | 50,1     | 1        | ] 4 | I        | 1 7a(T) |  |  |



| PERMITTEE NAME/ADDRESS (Include<br>Facility Name/Location if different)<br>NAME Commanding_Cer<br>ADDRESS Marine_Corps_] | ase             | 1   |  |  | ANT DISCH<br>RGE MONI<br>(2.16)<br>0003239                                       |   | REPOR     | (17-19)                    | slow Beac             | h Wate     | r Tre         |           | Form Ap<br>OMB No.<br>ent Pla | 2000-0   |         |
|--|-----------------|---|--|--|--|---|-----------|----------------------------|-----------------------|------------|---------------|-----------|-------------------------------|----------|---------|
| Camp_Lejeune,<br>EAGULINGUIC_67001   |                 |   |  |  |  |   | PERIOD    | MO DAY                     |                       | 1          |               |           |                               |          |         |
| LOCATION LANTDIV   | · · ·           |   |  | and the second state with the second state   | (22-21) (24  | the second se | 120-277 1 | 28-297 (10-11) N           | OTE: Read In          | structions | before        | comp      | eting this                    | form.    |         |
| PARAMETER  | $\searrow$      | 1   | J Card Only) QUA<br>(46-53)  | NTITY OR LOADIN<br>(34-61)   | IG ,   | (4 Card 0<br>(38-   |           | QUALITY OR CONC<br>(46-53) | CENTRATION<br>(54-61) |            | ÷             | NO.<br>EX | FREQUENC<br>OF<br>ANALYSIS    |          |         |
| (32-37)  |                 |   | AVERAGE  | MAXIMUM  | UNITS  | MINI  | MUM       | AVERAGE                    | MAXIMU                | M U        | INITS         | (62-63)   | (61-68)                       | (69.     | 70)     |
| 00403<br>pH Laboratory   | SAMP            |   |  |  |  |   |           | 8.3                        |                       |            |               | 00_       | 01/07                         | Gra      | ,<br>IP |
| W= 5/8/84  | PERM            |   |  |  |  | 6.  | 0         |                            | 10.0                  |            |               |           | 01/07                         | Gra      | ıb      |
| 00403<br>pH Laboratory   | SAMP            |   | 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -<br>1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - |  |  |   | Lines .   | 8.2                        |                       |            |               | 00        | 01/07                         | Gra      | b       |
| W= 5/15/84   | REQUIRE         |   |  |  | :  | 6.  | 0         |                            | 10.0                  |            |               |           | 01/07                         | Gra      | ıb      |
| 00403<br>pH Laboratory   | SAMP            |   |  |  |  |   |           | 8.4                        |                       |            |               | 00        | 01/07                         | Gra      | ıb      |
| W= 5/22/84<br>00403  | PERM            | MENT  |  |  | and the second   | 6.  | .0        | <u>anna ar</u>             | 10.0                  | ·          |               |           | 01/07                         | Gra      | b       |
| pH Laboratory  | SAMP            |   |  |  | Section of   |   |           | 7.6                        | the the               |            |               | 00        | 01/07                         | Gra      | ıb      |
| W= 3/29/84   | REQUIRE         |   |  |  |  | 6   | .0        | s, filinge in the          | 10.0                  |            |               |           | 01/07                         | Gra      | ıБ      |
| 00403<br>pH Laboratory   | SAMP            |   |  |  | · ',   |   |           | 7.7                        |                       |            |               | 00        | 01/07                         | Gra      | 1b      |
| W= 6/6/84  | PERM            |   |  |  |  | 6   | .0        |                            | 10.0                  |            | د.<br>ورشد ال |           | 01/07                         | Gra      | ıb      |
| 1  | SAMP            |   |  |  | ale i de al  |   |           |                            |                       |            |               |           |                               | <u> </u> | _       |
| 9-   | PERM<br>REQUIRE | MENT  |  |  |  |   |           |                            | •                     |            |               |           |                               |          | 1       |
|  | SAMP            |   |  |  | 0  |   |           |                            |                       |            |               |           |                               |          | 5<br>41 |
|  | PERM            |   |  |  |  |   |           |                            |                       |            |               |           |                               |          |         |
| NAME/TITLE PRINCIPAL EXECUTIVE   | OFFICER         | AND AM                                      | Y UNDER PENALTY O  | NFORMATION SUBMITT   | ED HEREIN AN   | D BASED   |           |                            |                       | TELI       | EPHONE        |           | D                             | ATE      | •       |
|  |                 | OBTAININ<br>IS TRUE,<br>NIFICANT<br>THE POS | INQUIRY OF THOSE<br>IG THE INFORMATION<br>ACCURATE AND COI<br>PENALTIES FOR SI<br>SIBILITY OF FINE AND<br>\$ 1319. (Produce und  | I. I BELIEVE THE SU<br>MPLETE. I AM AWARE<br>UBMITTING FALSE IN<br>D IMPRISONMENT. SEE<br>or these statutes may be | UBMITTED INFO<br>THAT THERE<br>FORMATION, II<br>18 U.S.C. I I<br>nclude fines up | ARE SIG   | SIGNAT    | JRE OF PRINCIPAL           | EXECUTIVE             |            |               |           |                               | *        |         |
| TYPED OR PRINTED   |                 | and or m                                    | aximum imprisonment of   | between 6 months and 5   | years.)  |   | OFFIC     | ER OR AUTHORIZ             | ED AGENT              | CODE       | NUMB          | ER        | YEAR                          | MOC      | 241     |
| COMMENT AND EXPLANATION OF AN  | Y VIOLATI       | UNS (K()                                    | erence au allachment   |  |  |   |           |                            |                       |            |               |           |                               |          |         |



| PERMITTEE NAME/ADDRESS (Include<br>Facility Name/Location if different)<br>NAME Commanding_Ce   | nesal   |  |  | TANT DISCHA<br>RGE MONIT<br>(2.16)<br>0003239   | RGE ELIM   | REPORT | T (DMR)<br>(17-19)          | low Beach V                      | Jater Tr      |           | Form App<br>OMB No. 2 | 2000-001:              |
|---|---|--|--|---|--|--------|-----------------------------|----------------------------------|---------------|-----------|-----------------------|------------------------|
| Marine_Corps_<br>Camp_Lejeune,  | Base  | <u> </u>   |  | IT NUMBER   |  |        | ARGE NUMBER                 | iow beach                        | acci ii       | cacin     |                       |                        |
|   | - NG  | H4   |  | MONIT   | ORING P  | ERIOD  |                             | · · · · · ·                      | •             |           |                       |                        |
| LOCATION LANTDIV  |   |  | FROM (20.11)   | MO DAY  | 10   | YEAR   | MO DAY                      | 6<br>TE: Read Instruc            | ctions before | comp      | leting this f         | orm,                   |
|   | N   | (3 Card Only) QU<br>(46-53)  | ANTITY OR LOADIN   | 16 (  | 4 Card On<br>(38-45  |        | QUALITY OR CONCL<br>(46-53) | ENTRATION<br>(54-61)             | e i e         | 1.0.      | FREQUENCY             | SAMPLE                 |
| PARAMETER<br>(32-37)  | X   | AVERAGE  | MAXIMUM  | UNITS   | MINIM  |        | AVERAGE                     | MAXIMUM                          | UNITS         | - 'EX     | ANALYSIS (61-68)      | (69.70)                |
| 00530<br>Total Suspended Solids   | SAMPLE  | INT  |  |   |  |        | 1                           |                                  | mg/1          | 00        | 01/07                 | 8 нс                   |
| w= 5/8/84   | PERMIT  | NT   |  |   |  |        | 30                          | 50                               |               |           | 01/07                 | Comp                   |
| 00530<br>Total Suspended Solids   | SAMPLE  |  |  |   |  |        | 9:0                         |                                  | mg/1          | . 00_     | 01/07                 | 8 нс                   |
| N= 5/15/84  | PERMIT  | NT   |  | 100 KBC2  |  |        | 30                          | 50                               | _             |           | 01/07                 | Comp                   |
| 00530<br>Total Suspended Solids   | SAMPLE  | INT  |  |   | •  |        | 8,0                         |                                  | mg/1          | 00        | 01/07                 | 8 HC                   |
| N= 5/22/84  | PERMIT  | NT   |  |   |  |        | 30                          | 50 .                             |               |           | 01/07                 | Comp                   |
| 00530<br>Total Suspended Solids   | SAMPLE  |  | - 14 A   |   | 14   |        | 6.0                         | ;                                | mg/1          | <u>po</u> | 01/07                 | 8 HC                   |
| W= 5/29/84  | PERMIT  |  |  | 2.4   |  |        | 30                          | 50                               |               |           | 01/07 ·               | Comp                   |
| 00530<br>Total Suspended Solids   | SAMPLE  |  |  |   |  |        | 7.2                         |                                  | mg/1          | 00        | 01/07                 | 8 HC                   |
| w= 6-6-84   | PERMIT  | NT   |  |   |  |        | 30                          | 50                               |               |           | 01/07                 | Comp                   |
|   | SAMPLE  |  |  |   |  |        |                             |                                  | _             |           |                       | <u> </u>               |
|   | PERMIT  | NT   |  |   |  | 4      |                             |                                  |               |           |                       |                        |
| A AND A DEC   | SAMPLE  |  |  |   |  |        |                             | · .                              | _             |           |                       | 1<br>1<br>1<br>1       |
| Y 2111 H 24   | PERMIT  | INT  |  |   |  |        |                             |                                  | ·             |           |                       | TE                     |
| NAME/TITLE PRINCIPAL EXECUTIVE  | A<br>O<br>O<br>IS<br>N<br>T   | CERTIFY UNDER PENALTY<br>ND AM FAMILIAR WITH THE<br>N MY INQUIRY OF THOSE<br>BTAINING THE INFORMATI<br>TRUE, ACCURATE AND C<br>IFICANT PENALTIES FOR<br>HE POSSIBILITY OF FINE A<br>JUSC \$ 1319. (Penaltics | EINFORMATION SUBMIT<br>EINDIVIDUALS IMMEDIA<br>ON, I BELIEVE THE S<br>COMPLETE, I AM AWARE<br>SUBMITTING FALSE IN<br>NUD IMPRISONMENT SEI<br>nder Ihere alguider may | TEL HEREIN, AND<br>TELY RESPONSIE<br>UBMITTED INFO<br>THAT THERE A<br>FORMATION. INC.<br>10 USC 1 10<br>include fince up to | D BASED<br>BLE FOR<br>RMATION<br>ARE SIG<br>CLUDING -<br>X01 AND |        | JRE OF PRINCIPAL            | 170                              |               |           |                       |                        |
| TYPED OR PRINTED  | A CONTRACT OF A | nd ur maximum imprisonment   |  | yeara.)   |  | OFFIC  | ER OR AUTHORIZE             |                                  | DE NUM        | BEN       | YEAR M                | O DAY                  |
| COMMENT AND EXPLANATION OF AN   | VY VIOLATION  | S (Kejerence all allacitme   |  |   |  |        |                             |                                  |               |           |                       | /i<br>metalar<br>natur |
| Manual Activity of the second s | the emistable   | O DE HAFD  |  | FORM T.AD   | WHIMM M.   | AV NOT | E USED.)                    | A reference in the second second |               | 1.1       | PAGE                  | OF                     |



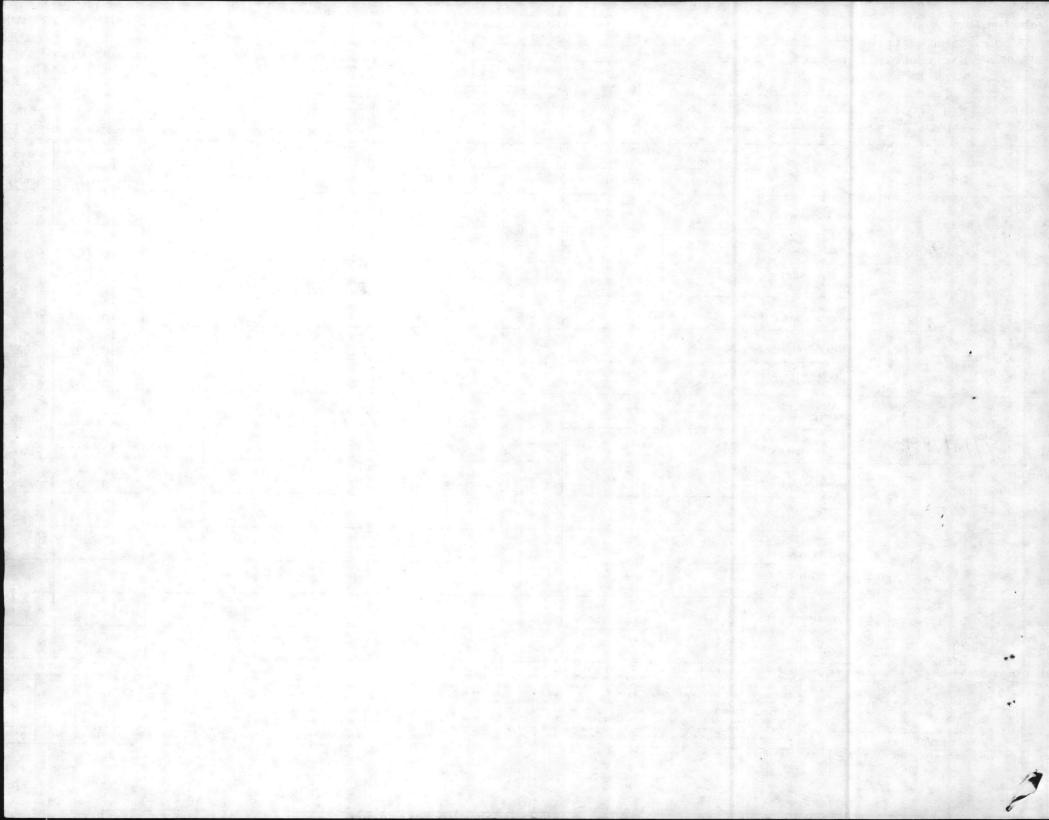
| PERMITTEE NAME/ADDRESS (Include<br>Facility Name/Location if different)<br>NAME Commanding_Cer | negal    | -                           | · · · · · · · · · · · · · · · · · · ·   | DISCHA  | RGE MON                                    | TORING                | REPOR  | ч вувтем ( <i>NPDES</i> )<br>T ( <i>DMR</i> )<br>_(17-19) |             |           |          |         | Form Ap<br>OMB No   |      |           |
|--|----------|-----------------------------|---|---|--|-----------------------|--------|---|-------------|-----------|----------|---------|---------------------|------|-----------|
| ADDRESSMarine_Corps_1<br>Camp_Lejeune_   | ase      |                             |   | N(  | 0003239                                    | 1                     |        | 014 Ons   | low Beac    | h Wate    | er Tre   | eatme   | ent Pla             | int  |           |
|  |          |                             |   |   | MUN  | ITORING               | PERIOD |   | · · · :     | ÷ • •     |          |         | ·                   |      |           |
| EAGILITY UIC_67001   |          |                             |   | FROM  |  | AY<br>TO              | YEAR   | MO DAY  | TE: Read In | struction | a before | comp    | leting this         | form |           |
| PARAMETER  |          | /                           | (.) Card Only) QUA<br>(46-53)   |   |  | (4 Card ()<br>(38-    | )nly). | QUALITY OR CONC<br>(46-53)                                |             |           |          | NO.     | FREQUENC            | v 5/ | AMPLE     |
| (32-37)  |          | /                           | AVERAGE   | MAXIMUM   | UNITS                                      | MINI                  | MUM    | AVERAGE   | MAXIMU      | м         | UNITS    | (62-63) | ANALYSI:<br>(61-68) |      | 69.70)    |
| 00403<br>pH Laboratory   | SAMPL    |                             |   |   |  |                       |        | 8.7   |             | · ·       |          | 00_     | 01/07               | G    | rab       |
| W= 6/19/84   | REQUIRE  |                             |   |   |  | 6                     | .0     |   | 10.0        |           |          |         | 01/07               | G    | rab       |
| 00403<br>pH Laboratory   | SAMPL    |                             |   |   |  |                       |        | 9.1.1   |             |           |          | 00      | 01/07               | G    | rab       |
| W= 6/26/84   | REQUIRED |                             |   |   | 1  | 6                     | .0     |   | 10.0        |           |          |         | 01/07               | G    | rab       |
| 00403<br>pH Laboratory   | SAMPL    |                             |   |   |  | ·                     |        | 8,7   |             |           |          | 00      | 01/07               | G    | rab       |
| W= 7-3-84  | PERMI    | THENT                       |   |   |  | 6                     | .0     |   | 10.0        |           |          |         | 01/07               | G    | rab       |
| 00403<br>pH Laboratory   | SAMPL    |                             |   | and the set   | 21.000                                     |                       |        | 9.1   |             |           |          | 00      | 01/07               | G    | rab       |
| W= 7/10/84   | PERM     |                             |   |   |  | 6                     | .0     |   | 10.0        |           |          |         | 01/07               | G    | rab       |
| 00403<br>pH Laboratory   | SAMPI    |                             |   |   | · .  |                       |        |   |             |           | •        | 00      | 01/07               | G    | rab       |
| W=   | PERMI    |                             |   |   | 1  | 6                     | .0     |   | 10.0        |           |          |         | 01/07               | G    | rab       |
| -1 1.  | SAMPI    |                             |   |   |  |                       |        | · · · · ·   |             |           |          |         |                     |      |           |
| 7/2484   | PERMI    |                             |   |   | 187.76                                     |                       |        |   | •           |           |          |         |                     |      | 1         |
|  | MEASURE  |                             |   |   | 5  |                       |        | 7.6.  |             |           |          |         |                     |      | ) -<br>91 |
| 7/38/84  | PERM     |                             |   |   |  |                       |        |   |             |           | -        |         |                     |      | •         |
| NAME/TITLE PRINCIPAL EXECUTIVE   | OFFICER  | AND A                       | IFY UNDER PENALTY ON FAMILIAR WITH THE  | INFORMATION SUBMIT  | TED HEREIN: A                              | ND BASED              |        |   |             | TEL       | EPHONE   | 5       | D                   | ATE  |           |
| 1  |          | OUTAIN<br>IS TRU<br>NIFICAT | (INDUIRY OF THOSE<br>ING THE INFORMATIO<br>IE, ACCURATE AND CO<br>NT PENALTIES FOR S<br>DSSIBILITY OF FINE AN<br>C \$ 1319, (Promilier unit | IN, I BELIEVE THE S<br>DMPLETE I AM AWAR<br>SUBMITTING FALSE I<br>ND IMPRISONMENT. SE | E THAT THERE<br>NFORMATION,<br>E 10 U.S.C. | ARE SIG-<br>INCLUDING | SIGNAT | URE OF PRINCIPAL  | EXECUTIVE   |           |          |         |                     | ;    |           |
| TYPED OR PRINTED   | A. A.    | and or                      | maximum imprisonment a  | f between 6 months and i  | 5 years.)                                  |                       | OFFIC  | CER OR AUTHORIZE  | D AGENT     | GODE      | NUMB     | ER      | YEAR                | мо   | DAY       |
| COMMENT AND EXPLANATION OF AN  | VIOLATIC | DNS (R                      | ejerence all allachmen  |   |  |                       |        |   |             |           |          |         |                     |      |           |

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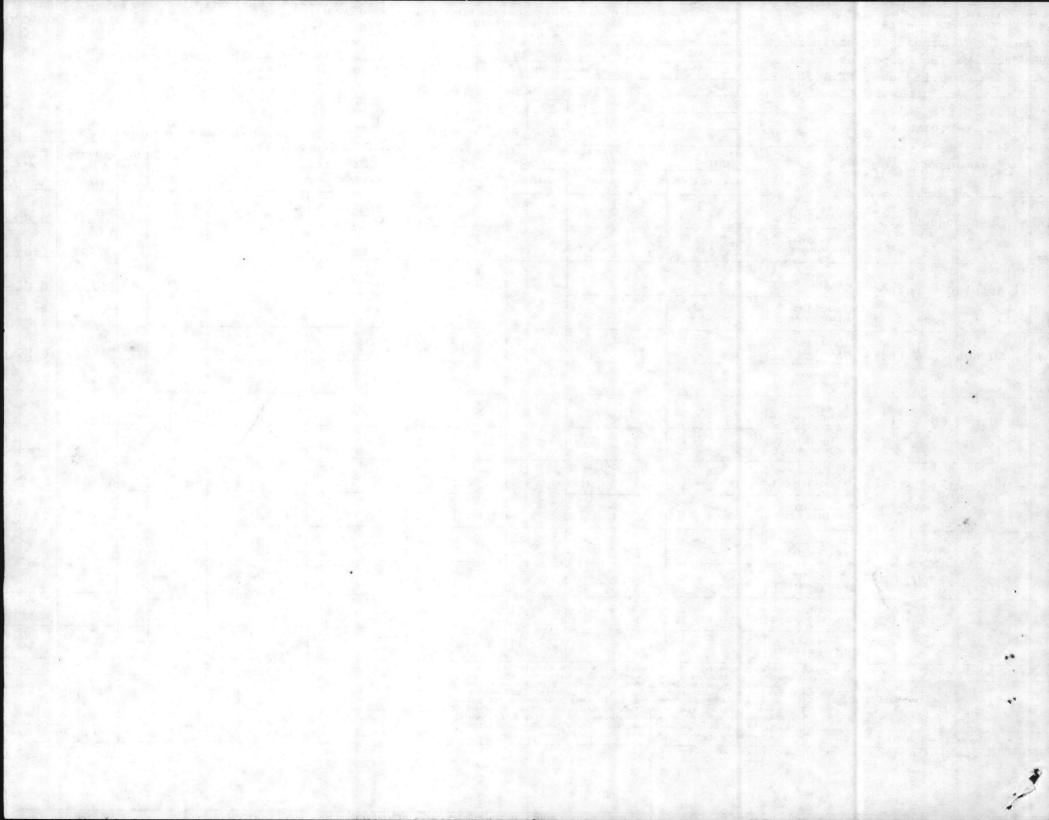


| eRMITTEE NAME/ADDRESS (Include<br>acility Name/Location if different) |                              |  |   | RGE MONI         |                     |             |                    | ES)                |                 |       | Form Ap<br>OMB No.        | •   |             |
|---|------------------------------|--|---|------------------|---------------------|-------------|--------------------|--------------------|-----------------|-------|---------------------------|-----|-------------|
| AMECommanding_Cer<br>DokessMarine_Corps_1<br>Camp_Lejeune,_           | Base                         |  | NC  | 0003239          |                     | DISCI       | 014 (              | Onslow Beac        | h Water T       | reatm | ent Pla                   | nt  | •           |
| Camp_Lejeune,-  | - 146                        |  |   | MON              | ITORING             | PERIOD      |                    |                    | 4 1             |       |                           |     |             |
| ACILITYUIC_67001  |                              |  | FROM  | MO D             | то                  | YEAR        | MO DAY             | 6                  |                 |       |                           |     | •           |
|   |                              | and the second | ANTITY OR LOADIN  | 11239 12<br>NG   | (4 Card C           | )nly)       | QUALITY OR CO      | NOTE: Read In      | structions Delo | NO.   | FREQUENC                  | -   | PLE         |
| PARAMETER<br>(32-37)  | $\mid$                       | (46-53)<br>AVERAGE   | (34-61)<br>MAXIMUM  | UNITS            | (38-<br>MINI        | 43)<br>IMUM | (46-53)<br>AVERAGE | (34-61)<br>MAXIMUI |                 | V- EX | 0F<br>ANALYSIS<br>(64-68) | TY  | PE          |
| 00530<br>Fotal Suspended Solids                                       | SAMPLI<br>MEASUREM           |  | :   |                  |                     |             | 13,3               |                    | mg/1            |       | 01/07                     |     |             |
| v= 6-19-84  | PERMIT                       | ENT  |   |                  |                     |             | 30                 | 50                 |                 |       | 01/07                     | Cor |             |
| 00530<br>Total Suspended Solids                                       | SAMPLI                       |  |   |                  |                     |             | 19.5               |                    | mg/1            | . 00  | 01/07                     | 8 1 | IC          |
| 6-26-84   | PERMIT                       | ENT  |   | 1                |                     |             | 30                 |                    |                 |       | 01/07                     | Cor | up,         |
| 00530<br>Cotal Suspended Solids                                       | SAMPLI                       |  |   |                  | •                   |             | 12,8               |                    | mg/1            | 00    | 01/07                     | 81  | IC,         |
| 1= 7-3-84   | PERMIT                       | ENT  |   |                  |                     | •<br>       | 30                 | 50                 |                 |       | 01/07                     | Сол | np_         |
| 00530<br>Cotal Suspended Solids                                       | SAMPLI                       | ENT  | ; 3   | . all and the    |                     |             | 31.0               |                    | mg/1            | 00    | 01/07                     | 81  | IC          |
| 1= 7-10/84  | REQUIREM                     | ENT  |   | 115.24           |                     |             | 30                 | 50                 |                 |       | 01/07                     | Con | np -        |
| 00530<br>Cotal Suspended Solids                                       | SAMPL                        |  |   | · . !            |                     |             | 8.4                |                    | mg/1            | 00    | 01/07                     | 8 H | IC_         |
| 1= 1/24/84  | PERMIT                       | ENT  |   |                  | 12.00               |             | 30                 | 50                 |                 |       | 01/07                     | Con | ıp          |
| •   | SAMPL                        |  | and the   | ·                |                     |             | 8.0                |                    |                 |       |                           |     |             |
| 7/38/34   | PERMIT                       |  |   |                  |                     | <br>        |                    |                    |                 |       |                           |     | i           |
|   | SAMPL                        |  |   | a .              |                     |             |                    |                    |                 |       |                           | _   | )<br>1<br>8 |
|   | PERMI                        |  |   |                  |                     |             |                    |                    |                 |       |                           | 1   |             |
| NAME/TITLE PRINCIPAL EXECUTIVE  |                              | CERTIFY UNDER PENALTY<br>AND AM FAMILIAR WITH THE  | INFORMATION SUDMIT  | TED HEREIN. A    | ND BASED            |             | ·.                 |                    | TELEPHO         | DNE   | D                         | ATE |             |
| e high we have  |                              | ON MY INQUIRY OF THOSE<br>OBTAINING THE INFORMATIC<br>IS TRUE, ACCURATE AND C<br>NIFICANT PENALTIES FOR          | INDIVIDUALS IMMEDIA<br>ON, I BELIEVE THE S<br>OMPLETE I AM AWARE<br>SUBMITTING FALSE IN | UBMITTED INF     | ORMATION<br>ARE SIG |             |                    |                    | 1               |       | -                         | ·   | •           |
| [1] 考入的"学校"、注意"教"、  |                              | THE POSSIBILITY OF FINE A  | der three statutes may i  | include fines up | In \$10,000         |             | URE OF PRINCI      |                    | AREA            | MBER  | YEAR                      | MO  | DAY         |
| TYPED OR PRINTED  | and the second second second | and ur maximum imprisonment  |   |                  |                     | OFFI        | CER OR AUTHOR      | ALEU AGENT         | CODE            | MOER  | I TEAM                    |     |             |
| OMMENT AND EXPLANATION OF AN  | IT VIOLATIO                  | 13 the first and and and and a   |   |                  |                     |             |                    |                    |                 |       |                           |     |             |

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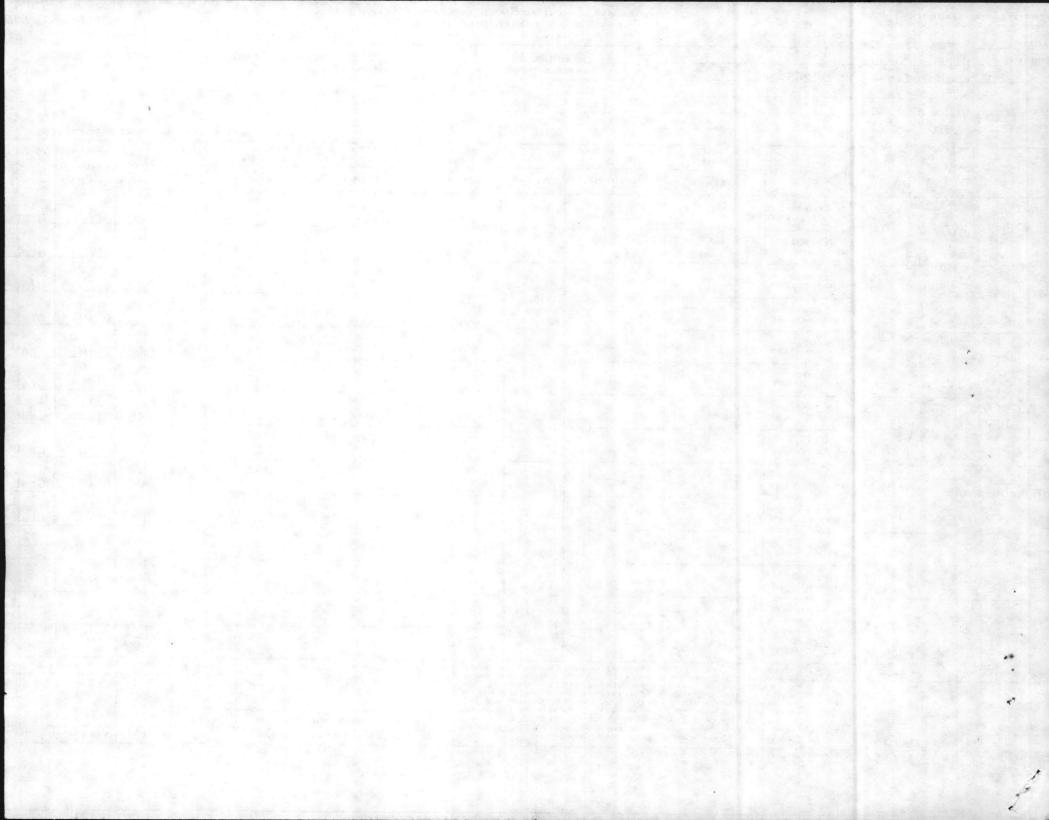
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| PERMITTEE NAME/ADDRESS (Includ<br>Facility Nume/Location if different)<br>NAME Commanding_Ge   | enezal                |                             |   |                  | ORING REPO                | (17-19)                    | low Beac     | h Wata     | r Tre  |         | Form A,<br>OMB No | o. 200  |            |
|--|-----------------------|-----------------------------|---|------------------|---------------------------|----------------------------|--------------|------------|--------|---------|-------------------|---|------------|
| ADDRESSMarine_Corps_   | Base                  |                             |   | IT NUMBER        | DIS                       | CHARGE NUMBER              | IOW Deac     | al wale    | 1 110  | aLind   | , inc. I I        | anc   |            |
| Camp_Lejeune,  | - NC 20342-           |                             |   | MUNI             | TORING PERIOD             | 5                          |              | : •        |        |         | •                 |   |            |
| ТАСІЦИЗ UIC_67001  |                       |                             | FROM  | MO DA            | 10                        |                            | )TE: Read In | structions | before | comp    | leting th         | s form  |            |
| PARAMETER  |                       | J Card Only) QU/<br>(46-53) | ANTITY OR LOADIN  |                  | (4 Card Only).<br>(38-45) | QUALITY OR CONC<br>(46-33) |              |            | ÷      | NO.     | FREQUEN           | CY 5/   | AMPLE      |
| (32-37)  |                       | AVERAGE                     | MAXIMUM   | UNITS            | MINIMUM                   | AVERAGE                    | MAXIMU       | M U        | INITS  | (62-63) |                   |   | 69.70)     |
| 00403<br>pH Laboratory   | SAMPLE<br>MEASUREMENT |                             |   |                  |                           | 7.7                        |              |            |        | 00_     | 01/07             | G   | rab        |
| W= 7 AUG 84  | PERMIT<br>REQUIREMENT |                             |   |                  | 6.0                       |                            | 10.0         |            |        |         | 01/07             | G   | rab        |
| 00403<br>pH Laboratory   | SAMPLE<br>MEASUREMENT |                             |   |                  |                           | 6.7                        |              |            |        | 00      | 01/07             | G   | Grab       |
| W= 14AUG 84<br>00403   | PERMIT<br>REQUIREMENT |                             |   | ;                | 6.0                       |                            | 10.0         |            |        |         | 01/07             | G   | Grab       |
| 00403<br>pH Laboratory   | SAMPLE<br>MEASUREMENT |                             |   |                  | ·                         |                            |              | ·          |        | 00      | 01/07             | G   | Grab       |
| W= 21 AUG 84   | PERMIT                |                             |   |                  | 6.0                       | 7.9                        | 10.0         | ·          |        | ·       | 01/07             | G   | Grab       |
| 00403<br>pH Laboratory   | SAMPLE<br>MEASUREMENT |                             |   |                  |                           | a starte in                |              | ·          |        | 00      | 01/07             | G   | Grab       |
| W=   | PERMIT<br>REQUIREMENT |                             |   |                  | 6.0                       |                            | 10.0         | ·          |        |         | 01/07             | G   | Grab       |
| 00403<br>pH Laboratory   | SAMPLE<br>MEASUREMENT |                             |   |                  |                           |                            |              | <u> </u>   |        | 00      | 01/07             | G   | Grab       |
| W=   | PERMIT                |                             |   | /                | 6.0                       |                            | 10.0         |            |        | 25      | 01/07             | G   | Grab       |
|  | SAMPLE<br>MEASUREMENT |                             |   |                  | •                         |                            |              |            |        |         |                   |   |            |
| N  | PERMIT                |                             |   |                  |                           |                            | · .          |            |        |         |                   |   | i          |
| Service and a service of a serv | SAMPLE<br>MEASUREMENT |                             |   | 10               |                           |                            |              |            |        |         |                   |   | יין<br>קיי |
|  | PERMIT                |                             |   |                  |                           |                            |              |            |        | 199     |                   |   |            |
| NAME TITLE PRINCIPAL EXECUTIV  | AND AM                | FAMILIAR WITH THE           | OF LAW THAT I HAVE<br>INFORMATION SUBMIT  | TELY RESPONSE    | D BASED                   |                            |              | TEL        | EPHON  | E       |                   | ATE   | <u>.</u>   |
|  |                       | NG THE INFORMATIO           | IN, I BELIEVE THE S<br>DMPLETE, I AM AWARE<br>SUBMITTING FALSE IN<br>ND IMPRISONMENT, SEE | THAT THERE       |                           |                            |              |            |        |         |                   | ·   |            |
|  | 22010                 | \$1310 (Penaltics un        | der these statutes may in<br>f between 6 months and 5                                     | include lines up | to \$10,000               | ATURE OF PRINCIPAL         |              | AREA       | NUM    | ER      | YEAR              | MO  | DAY        |
| COMMENT AND EXPLANATION OF A   | NY VIOLATIONS (Re     | ference all attachmen       | its here)   |                  |                           |                            |              |            |        | ·       |                   |   |            |
| 5  |                       |                             |   |                  | and the second second     |                            |              |            |        |         |                   | 1 - 14<br>- 14<br>- 14<br>- 14<br>- 14<br>- 14<br>- 14<br>- 1 |            |

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| AMITTEE NAME/ADDRESS (Include<br>Nily Name/Location if different)<br>MECommanding_Cenesal<br>DRESSMarine_Corps_Base<br>Camp_Lejeune,_NC28542 |   |  | DISCHAR  | RGE MONI<br>(2-16) | ARGE ELIMINATIO          | (17-19)                    | low Beac                              | h Wate     | r Tre    |         | OMB No                   | . 2000 |         |
|--|---|--|--|--------------------|--------------------------|----------------------------|---------------------------------------|------------|----------|---------|--------------------------|--------|---------|
| Camp_Lejeune_  | NC285   | i42  |  | IT NUMBER          | DISC                     | HARGE NUMBER               |                                       |            |          |         |                          |        |         |
|  |   |  | -  |                    | ITORING PERIOD           | MO DAY                     |                                       |            | •        |         |                          |        | •       |
| ACILITY UI C-67001<br>OCATION LANTDIV  |   |  | FROM   |                    | AY<br>TO<br>(14-27)      |                            | 6<br>TE: Read ins                     | structions | before   | compl   | cting thi                | a form |         |
| PARAMETER  |   | (3 Card Only) QU<br>(46-53)  | IANTITY OR LOADIN<br>(54-61)                                       | IG .               | (4 Card Only)<br>(38-45) | QUALITY OR CONC<br>(46-53) | ENTRATION<br>(54-61)                  |            | <u> </u> | NO.     | FREQUEN<br>OF<br>ANALYSI |        | AMPLE   |
| (32-37)  | X   | AVERAGE  | MAXIMUM  | UNITS              | MINIMUM                  | AVERAGE                    | MAXIMU                                | м          | TINITS   | (62-63) |                          |        | 69.70)  |
| 0530<br>otal Suspended Sqlids  | SAMPLE  | ENT  |  |                    |                          | 23.0                       | · · · · · · · · · · · · · · · · · · · | m          | g/1      | 00      | 01/07                    | . 8    | НС      |
| = 7AU684   | PERMIT  |  |  | 1                  |                          | 30                         | 50                                    |            |          |         | 01/07                    | G      | omp     |
| 0530<br>otal Suspended Solids  | SAMPLE  |  |  |                    | 1                        | 11.6                       |                                       | m          | g/1 .    | 00      | 01/07                    | 8      | НС      |
| 14 AUG 84  | PERMIT  | ENT  |  | !                  |                          | 30                         | 50                                    |            |          |         | 01/07                    | C      | omp     |
| 0530<br>otal Suspended Solids  | SAMPLE  |  |  | 120                |                          | NU SAMALE                  |                                       | m          | g/1      | 00      | 01/07                    | 8      | HC,     |
| = 21 AVG 87  | PERMIT  | ENT  |  |                    |                          | 30                         | 50                                    |            |          |         | 01/07                    | C      | omp     |
| 0530<br>otal Suspended Solids  | SAMPLE  |  | 1  |                    | · ·                      |                            | · .                                   | m          | g/1      | 00      | 01/07                    | 8      | HC      |
| =  | PERMIT  | ENT  |  |                    |                          | 30                         | 50                                    |            |          |         | 01/07                    | . C    | omp     |
| 0530<br>otal Suspended Solids  | SAMPLE  | ENT  | 1. A.  | · .                |                          |                            |                                       | m          | g/1      | 00      | 01/07                    | 8      | НС      |
| -  | PERMIT  | ENT  |  | !                  |                          | 30                         | 50                                    |            |          |         | 01/07                    | C      | omp     |
|  | SAMPLE  |  |  |                    |                          |                            |                                       |            |          |         |                          |        |         |
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|  | PERMIT  |  |  |                    |                          |                            |                                       | ·          |          |         |                          |        |         |
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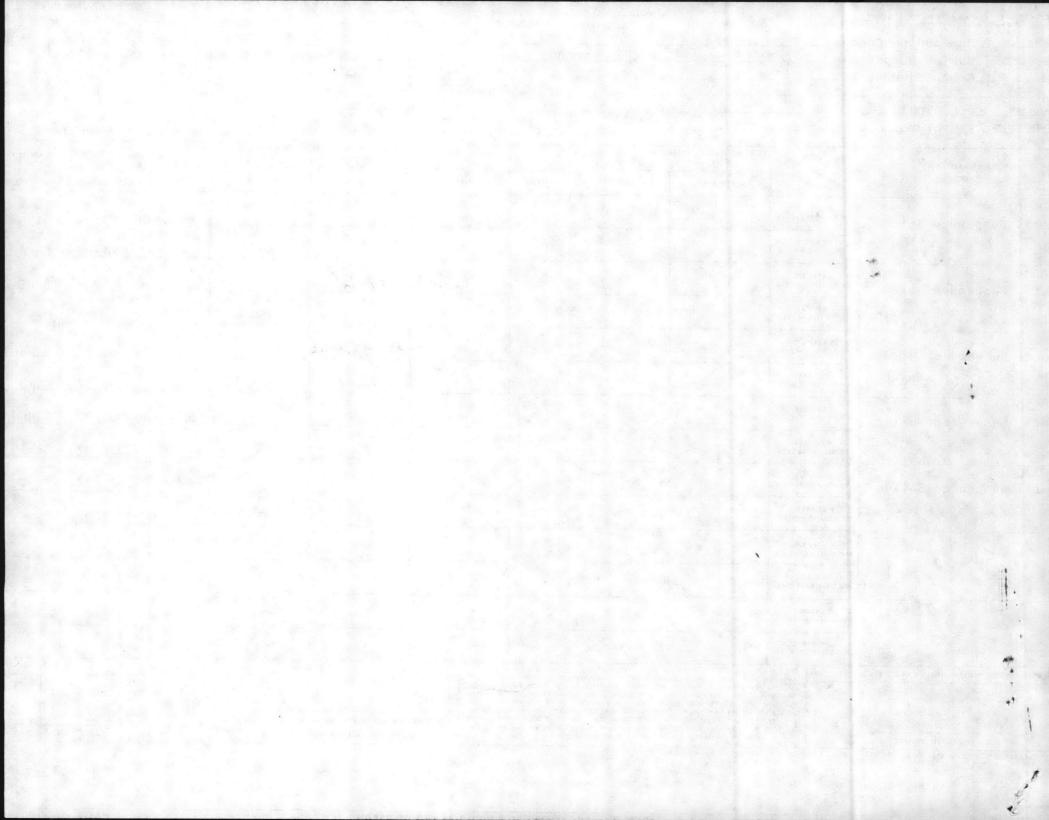
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference

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6280/2 NREAD 2 5 JUN 1984

Regional Administrator Environmental Protection Agency Region IV, Nater Enforcement Eranch 345 Courtland Street Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit number NC0003239, Discharge Monitoring Reports (DNRs) for the period March, April and May 1984 are submitted.

Comp Johnson Wastewater Treatment Plant violated the NFDES permit requirement for monthly Total Suspended Solids (TSS) percent removal average for March 1984. Operators observed red colored wastewater containing unidentified chemicals flooding the trickling filter on 16 and 18 April 1984. The shock load caused trickling filter growth damage.

Rifle Range Wastewater Treatment Plant violated the NPDES permit requirement for monthly Biochemical Oxygen (BOD) percent removal average for March 1984. The BOD influent concentrations were extremely low, with a monthly average of 30 mg/l and a maximum value of only 53 mg/l. The BOD effluent average was only 5 mg/l. Therefore, the violation was due to a low influent BOD concentrations caused by heavy rains diluting the wastewater and a reduced number of personnel using the area.

Courthouse Bay Mastewater Treatment Plant violated the NPDES permit requirements for monthly BOD percent removal average for March and April 1984 and monthly TSS percent removal average for April 1984. This problem is attributed to shock loads of chemicals and oil from oil/water separators entering the plant. On 23 March 1984, the new raw sewage holding basin was put into operation. During the week of 15 April 1984, the influent sampling point was moved to the lift station before the basin to obtain a more representative influent sample. In May 1984 the plant BOD and TSS percent removal met compliance requirements.

Coslow Beach Wastewater Treatment Plant violated the NFDES permit requirement for monthly TSS percent removal average for April 1984. The TSS influent concentrations were low, with a monthly average of 40 mg/l and a maximum value of 100 mg/l. The TSS offluent average was only 7 mg/l. The violation was attributed to a low influent flow and associated BOD concentration which was the result of few personnel assigned to the area.

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The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the quarter were checked; however, each time they were checked they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.

For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Director, Natural Resources and Environmental Affairs Division at (919) 451-5003/2083.

Sincerely,

M. G. LILLEY Colonel, U. S. Marine Corps Assistant Chief of Staff, Facilities By direction of the Commanding General

Encls:

(1) DMRs
 (2) Discharge Violations

Copy to: CMDR NAVFACENGCOM CMDR NESSA NC Dept of NatRes&ComDev

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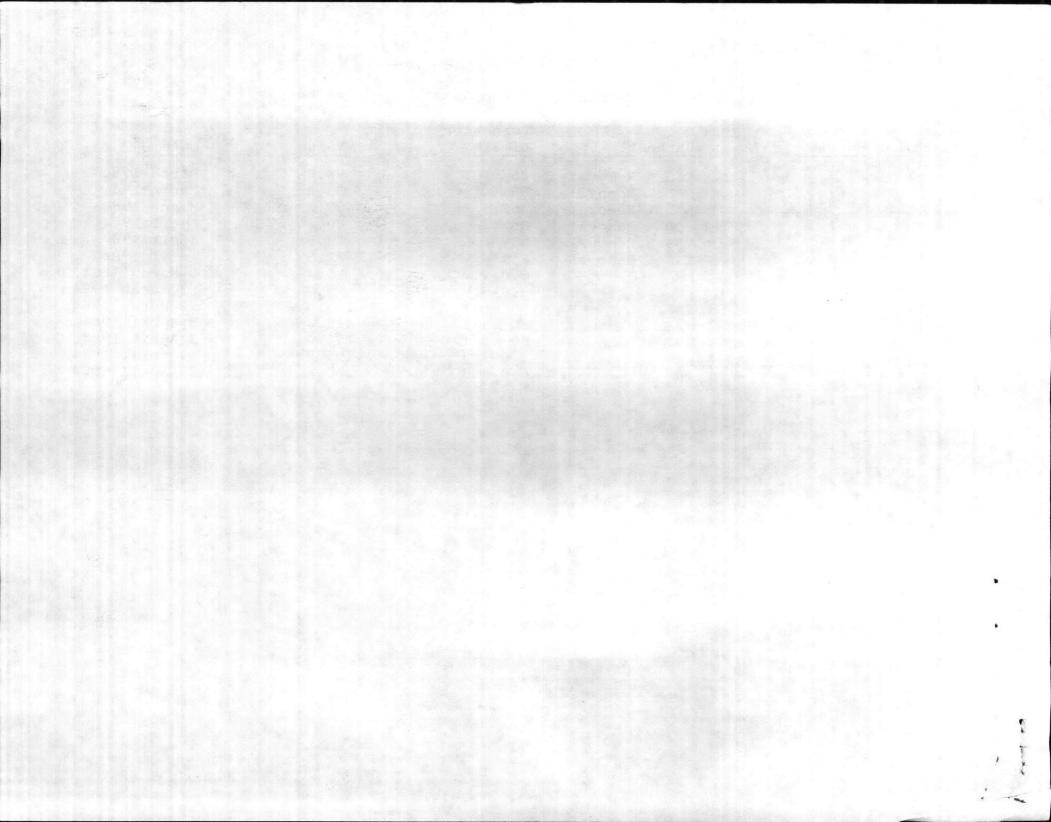
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# NPDES PERMIT NO. NC0003239 VIOLATIONS FOR THE PERIOD March, April, May 1984

| Monitoring Station<br>or Storm Drain No. | Parameter     | Parameter<br>Limits | Value | Date          |
|--|---------------|---------------------|-------|---------------|
| SS 03                                    | TSS % Removal | 85%                 | 84.8  | March 1984    |
| SS 05                                    | BOD % Removal | 85%                 | 83.3  | March 1984    |
| SS 06                                    | BOD % Removal | 85%                 | 75.8  | March 1984    |
| SS 06                                    | BOD % Removal | 85%                 | 80.4  | April 1984    |
| SS 06                                    | TSS % Removal | 85%                 | 73.8  | April 1984    |
| SS 07                                    | TSS % Removal | 85%                 | 82.5  | April 1984    |
| SD 57                                    | pH            | 6.0-9.0             | 9.4   | 1 March 1984  |
| SD 67                                    | pH            | 6.0-9.0             | 5.7   | 12 March 1984 |
| SD 71                                    | TSS           | 50 mg/1             | 115.0 | 12 March 1984 |
| SD 42                                    | TSS           | 50 mg/1             | 419.3 | 3 April 1984  |
| SD 43                                    | TSS           | 50 mg/1             | 154.0 | 3 April 1984  |
| SD 90                                    | pH            | 6.0-9.0             | 5.9   | 19 April 1984 |
| SD 30                                    | pH            | 6.0-9.0             | 5.6   | 26 April 1984 |



#### **BASE MAINTENANCE DIVISION**

Marine Corps Base

Camp Lejeune, North Carolina 28542

MAIN/WRP/shk 11345.4 11 April 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, M-136

1. The Camp Johnson Wastewater Treatment Plant violated the parameter for per cent removal of suspended solids for the month of March 1984, parameter being 85% removal. Removal for the month of March was 84.8% suspended solids.

2. Shock loads of unidentified chemicals and red water flooded the trickling filter on the 16th and 18th, killing the filter growth which takes approximately two weeks to regain normal efficiency.

3. We have checked all areas of Camp Johnson but have been unable to locate a source or type of chemical that could have caused the destruction of filter growth.

WARhice

#### W. R. PRICE

MAIN/DLS/shk 11345 12 April 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman 1tr MAIN/WRP/shk 11345.4 of 11 April 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, M-136

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D. L. SOUTHERLAND By direction

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# BASE MAINTENANCE DIVISION Marine Corps Base Camp Lejeune, North Carolina 28542

MAIN/WRP/shk 11345.4 11 April 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, BB-207

1. The Courthouse Bay Wastewater Treatment Plant violated the parameter for percent removal of BOD for the month of March 1984, parameter being 85% removal. Removal for March was 75.8% for BOD.

2. Loads of chemicals and oil from oil/water separators continued to flood the plant keeping the filter growth cut down until the 23rd when the raw sewage holding pond was put into operation.

3. The new raw sewage holding pond was put into operation on the 23rd of March. After a short period of adjustment, the shock loads should be eliminated and allow a much smoother operation.

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D. I. SOUTHTREE.

# BASE MAINTENANCE DIVISION Marine Corps Base Camp Lejeune, North Carolina 28542

MAIN/WRP/shk 11345.4 11 April 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, RR-92

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2. There was an extremely low BOD influent for the entire month with an average of 30 mg/l and an effluent average of 5 mg/l. With a BOD influent this low, we cannot meet the percent removal requirement. However, we are still within the limits of total BOD discharge.

3. It is believed that the low BOD influent was due to heavy rain and very few people on the range.

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From: Base Maintenance Officer

To: Director, Natural Resources and Environmental Affairs

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Q.S. Southerland D. L. SOUTHERLAND

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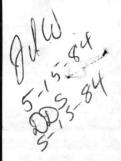
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U. L. SUNTRANALS



# BASE MAINTENANCE DIVISION Marine Corps Base Camp Lejeune, North Carolina 28542

MAIN/WRP/shk 11345.4 10 May 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, BB-207

1. The Courthouse Bay Wastewater Treatment Plant violated the parameter for percent removal of BOD and SS for the month of April 1984, parameter being 85% removal. Removal for April was 80.4% BOD and 73.8% SS.

2. The new raw sewage holding pond was put into operation on March 23, 1984. The initial adjustment period required more time than expected due to pond discharge pumps being oversized for present plant capacity. The capacity of the pond discharge pumps is considerably greater than the existing plant capacity. This resulted in the plant being flooded for approximately two hours and then it was off for approximately the same period of time. This allowed the filter growth to dry out and fall off. Also, raw sewage was being diluted in pond due to influent line being submerged in approximately two feet of water.

3. A new 250 gallons per minute pump has been ordered to replace one of the existing 500 GPM pumps in pond which will give an even and continuous flow that is compatible with the existing plant capacity. Also, the influent sampling point has been relocated to the lift station, Building SBB-1, where a more representative sample can be collected.

MAIN/DLS/shk 11345 10 May 1984

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- Subj: NPDES Permit Violation, BB-207
- 1. Forwarded for appropriate action.

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Subj: MPDEC Periat Violetion, NR+207

 The Contributed by Washeeter Irecteent Plant violated the parameter for percent removal of 600 and 55 for the Wonth of April 1985, carameter being 57 removal. Removed for April was 60.4% 500 and 73.8% SS

The new raw reveates holding pondewas put fute operation th harch 13 1504 The initial adjustment period requires more that then expected due to each discharge pumps being correlated for present plant topecity. The copperity of the pond discharge bumps is considerably grooter that topecity. The copperity of coperity. This resulted in the plant being flooded for approximately two hows and then it can be for toproximately the send part of time. This is loaded the filter growth to day wet and 11 ff. Also, raw sender way being alloced in unit due to influent line being entering in opproximately top feet of note the top continent line being entering in opproximately top feet of note:

3. A new 250 gallons per ninule reas been ordered to replace one of the extering 500 GH purps in some which will give an even and continuous flow that is accossible with the velocing glast capacity. Also, the influent each ting point has been throughed to the life station, building Shail, where a more representative sample can be collected. Some

WILL FULCE

(\* 18410) 2637 abe 11345 \* 10 wey 1934

FIRST ELDORSEMENT on Utilities Systems Casers Lorenan its Milly Frefers

Frost Lass Maintanante Officer 19: Offector, Satural Leasures and Environmental Affeirs

. 1097. - NPDLS Permit Violations Ma-207

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D. E. SOUTHLINGIO L. STREETER

# BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> MAIN/WRP/shk 11345.4 10 May 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, SBA-160

1. The Rifle Range Wastewater Treatment Plant violated the parameter for percent removal of SS for the month of April 1984, parameter being 85% removal. Removal for the month of April was 82.5%.

2. There was extremely low influent solids for the entire month with an average of 40 mg/l and an effluent average of 7 mg/l.

3. We believe that a low influx is the primary reason for the low influent solids.

WR R. PRICE

MAIN/DLS/shk 11345 10 May 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 10 May 1984

From: Base Maintenance Officer

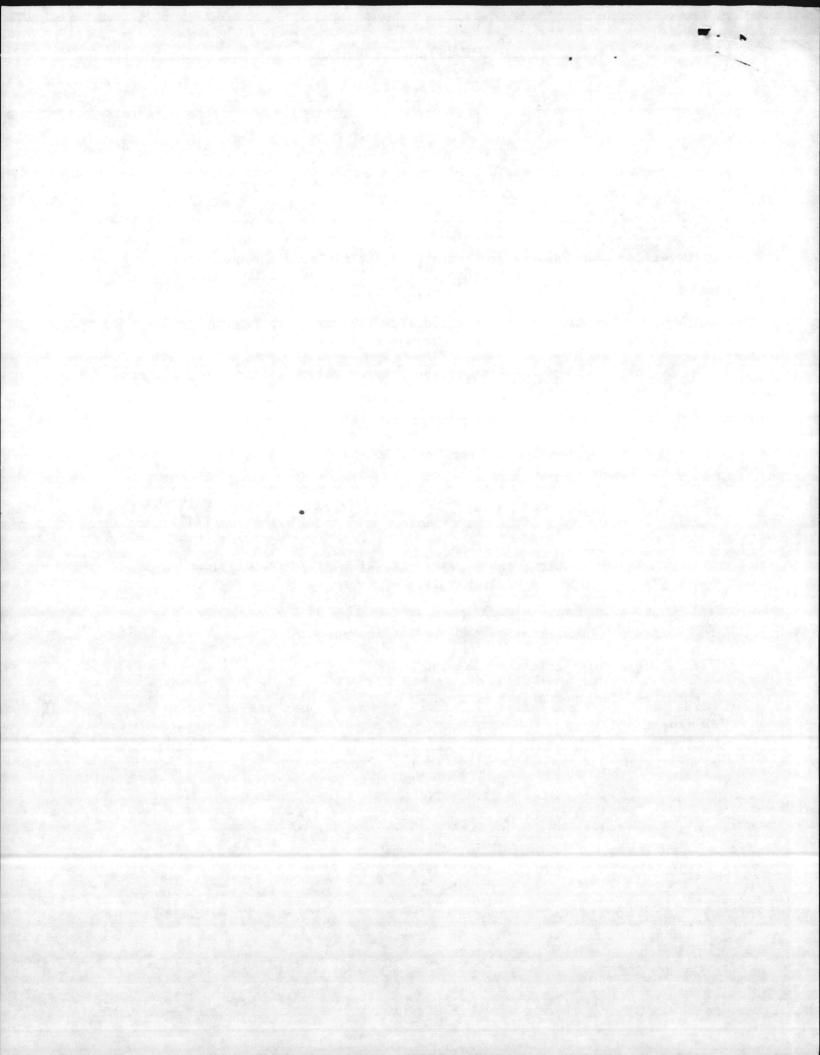
To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, SBA-160

1. Forwarded for appropriate action.

D. J. Southerland

By direction



# BASE MAINTENANCE DIVISION Marine Corps Base

Camp Lejeune, North Carolina 28542

MAIN/WRP/shk 11345.4 10 May 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, SBA-160

2000 4

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MAIN/DLS/shk 11345 10 May 1984

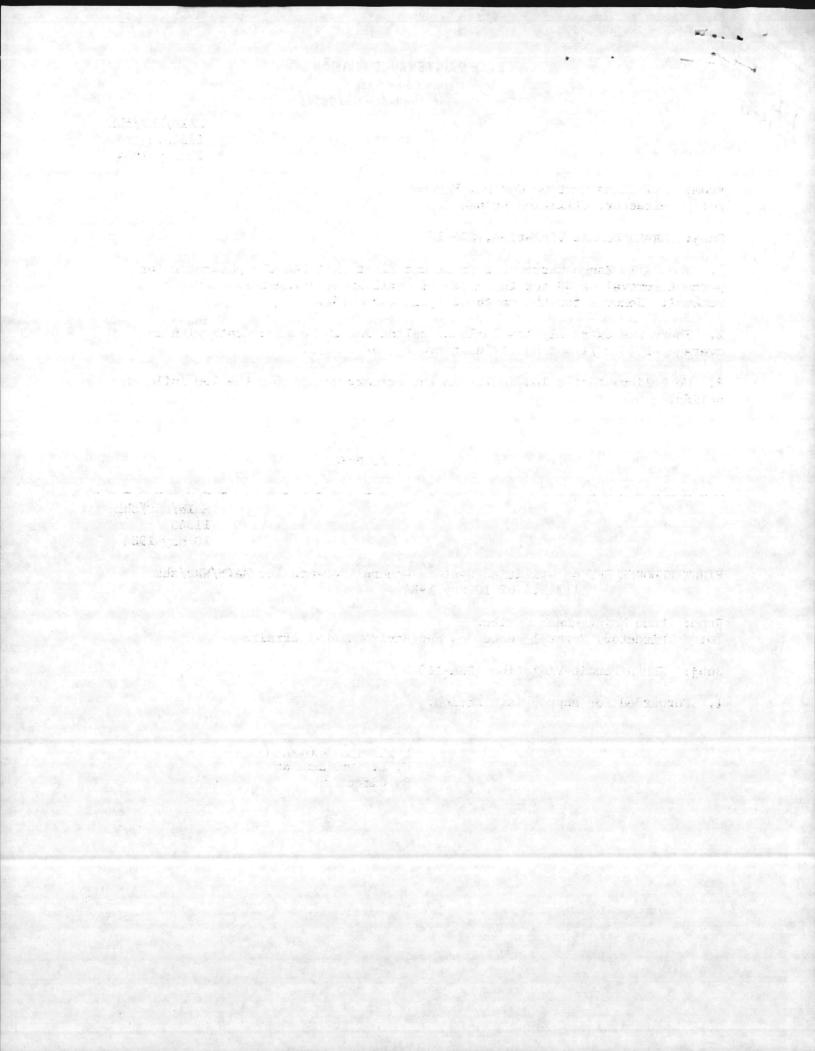
FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 10 May 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, SBA-160

1. Forwarded for appropriate action.

L. SOUTHERLAND



MAIN/WRP/shk 11345.4 10 May 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, SBA-160

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2. There was extremely low influent solids for the entire month with an average of 40 mg/l and an effluent average of 7 mg/l.

3. We believe that a low influx is the primary reason for the low influent solids.

W. R. PRICE

MAIN/DLS/shk 11345 10 May 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman 1tr MAIN/WRP/shk 11345.4 of 10 May 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, SBA-160

1. Forwarded for appropriate action.

iram, Unfittles Systems Conoral Foreman

Subj MCGLE Lamit Violation, SCA-190

1. The Mills Home Lestevator Instant Flux, violated and analysis for erecat Relovation of SP For the muscle of April 1504, parkmuter being and removil. Relovat for the month of April Was 64.1%.

2. There was extremely low influent solids for the multipromity with an evence of \$1 movel an of light avoidant of \$1 movel.

of We believe that a low influe is the primary reason , or the low influent

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11342.4 11342.4 1342.4

> > subj: WELL& "controlations" ADA 150

1. Formarial for appropriate antion.

NREAD/EAB 6280/2

Regional Administrator Environmental Protection Agency Region IV, Water Enforcement Branch 345 Courtland Street Atlanta, Georgia 30309

Dear Sir:

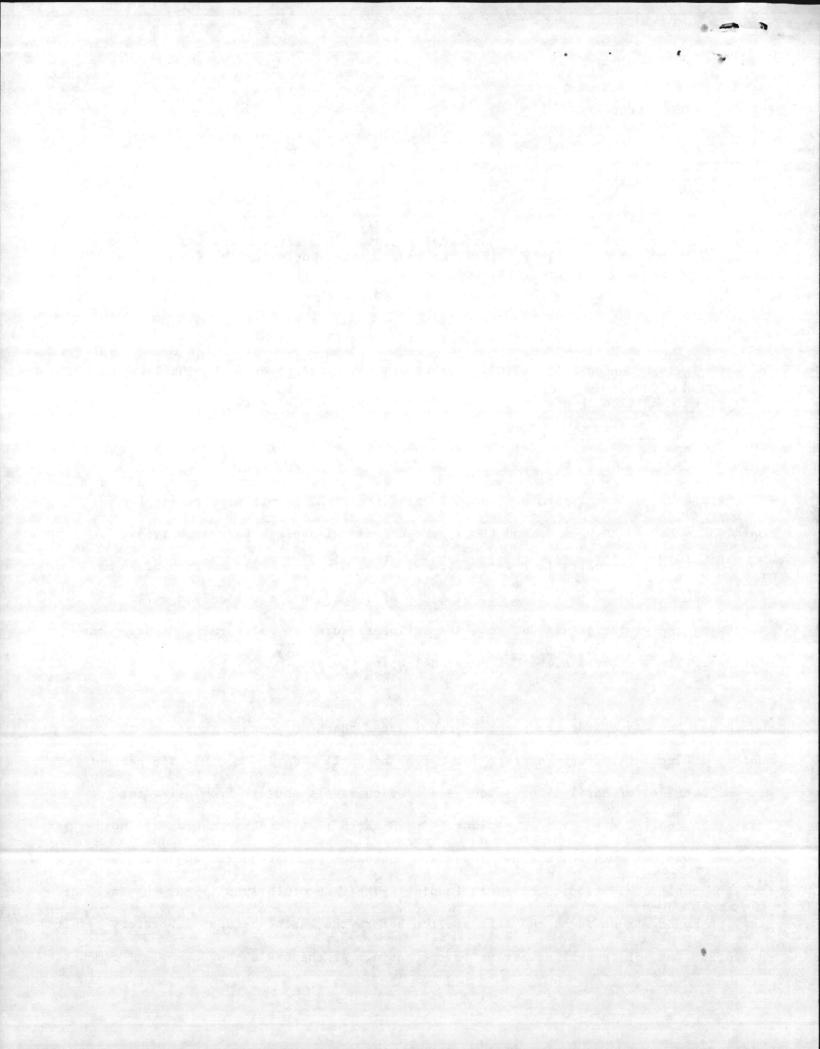
The p

In accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit number NCO003239, Discharge Monitoring Reports (DMR's) for the period March, April and May 1984 are submitted.

Camp Johnson Wastewater Treatment Plant violated the NPDES permit requirement for monthly Total Suspended Solids (TSS) percent removal average for March 1984. Shock loads of unidentified chemicals and red water flooded the trickling filter on 16 and 18 April 1984 and damaged the filter growth.

Rifle Range Wastewater Treatment Plant violated the NPDES permit requirement for monthly Biochemical Oxygen Demand (BOD) percent removal average for March 1984. The BOD influent concentrations were extremely low, with a monthly average of 30 mg/l and a maximum value of only 53 mg/l. The BOD effluent average was only 5 mg/l. Therefore, the violation was due to a low influent caused by heavy rains diluting the wastewater and a reduced number of personnel using the area.

Courthouse Bay Wastewater Treatment Plant violated the NPDES permit requirements for monthly BOD percent removal average for March and April 1984 and monthly TSS percent removal average for April 1984. Shock loads of chemicals and oil from oil/water separators continued to flood the plant. On 23 March 1984, the new raw sewage holding basin was put into operation. The basin discharge pumps required adjusting before the basin could reduce the shock loading. The week of 15 April 1984, the influent sampling point was moved to the lift station before the basin, because laboratory results showed BOD and TSS removal occurring in the basin. As the DMR's show the plant came back



into compliance with the BOD and TSS percent removal requirements in May 1984.

Onslow Beach Wastewater Treatment Plant violated the NPDES permit requirement for monthly TSS percent removal average for April 1984. The TSS influent concentrations were low, with a monthly average of 40 mg/l and a maximum value of 100 mg/l. The TSS effluent average was only 7 mg/l. The violation was due to a low influx; a result of few personnel using the area.

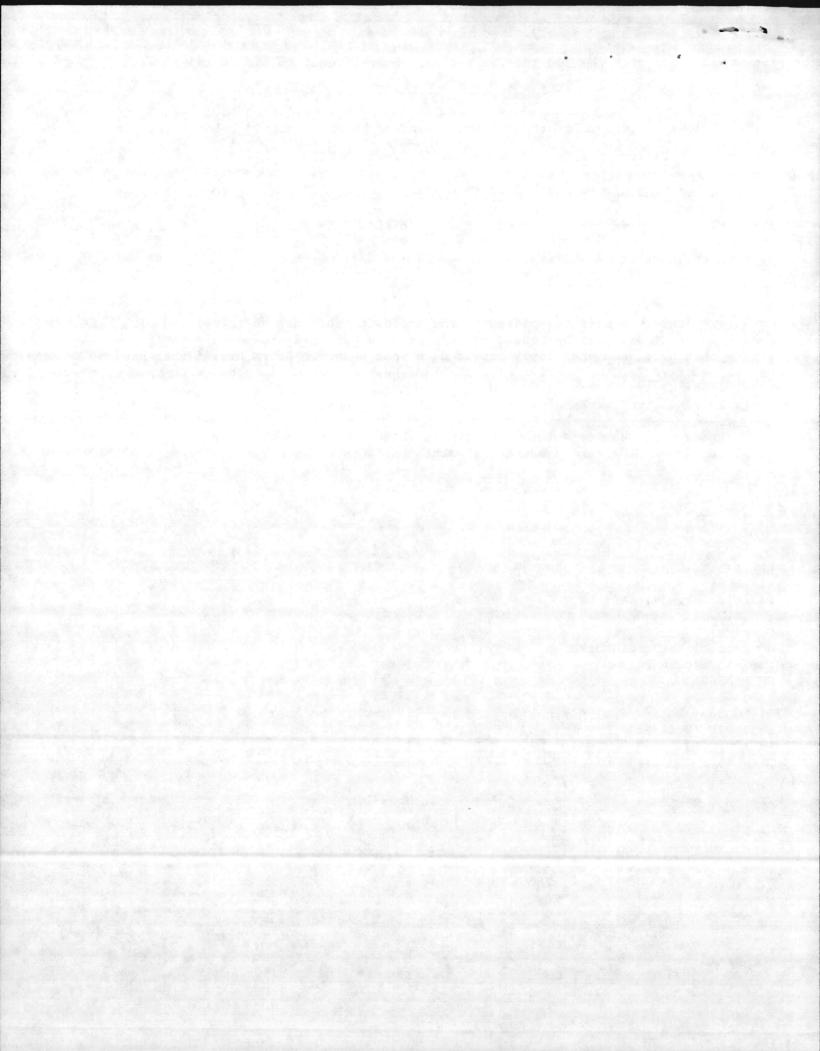
The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have mo values reported for the quarter were checked; however, each time they were checked they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.

For further pertinent details on any of the above, you may contact Mr. Julian Wootern, Director, Natural Resources and Environmental Affairs Division, at (919) 451-5003/2083.

Encls: (1) DMRs (2) Discharge Violations

Copy to: NC Dept of NatRes&ComDev CMDR NAVFACENGCOM CMDR NEESA

Blind copy to: (w/Encl (2)) BMAINDIV (Util Br) NREAD (QCL)



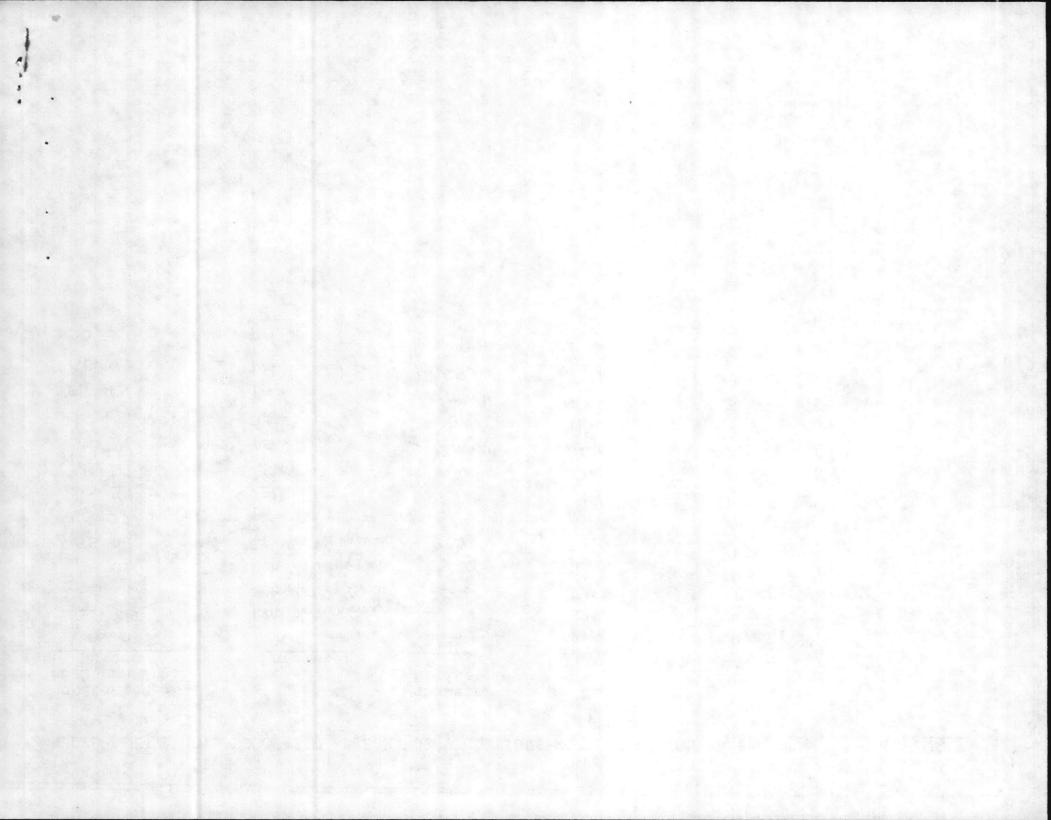
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NPDES PERMET NO. NCO003239 DISCHARGE VIOLATIONS FOR THE PERIOD MARCH, AZEL MAY 1984

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| Monitoring Sta.<br>or Storm Drain<br>Number | Parameter     | Parameter<br>Limits | Value | Date        |
|---|---------------|---------------------|-------|-------------|
| 55 03                                       | TSO % REMOVAL | 85%                 | 84.8  | Mar 1984    |
| 55 05                                       | BOD % REMOVAL | 85°16               | 83.3  | MAR: 1984   |
| 55 06                                       | BOD % REMOVAL | 85%                 | 75.8  | MAR 1984    |
| 55 06                                       | BOD % REMOVAL | 85°/8               | 80.4  | APR 1984    |
| 55 06                                       | TSS % REMOVAL | 85%                 | 73.8  | APR 1984    |
| 55 07                                       | TSS % REMOVAL | 85%                 | 82,5  | APR 1984    |
| 5D 57                                       | pH            | 6.0-9.0             | 9.4   | 1 MAR: 1984 |
| SD 67                                       | PH            | 6.0-9.0             | 5.7   | 12 MAR 1984 |
| SD 71                                       | TSS           | 50 mg/1             | 115.0 | 12 MAR 1984 |
|   | TSS           | 50 mg/1             | 419.3 | 3 APR. 1984 |
| 5042  | TSS           | 50 mg/1             | 154.0 | 3 APR 1984  |
| SD 43                                       |               | 6.0-9.0             | 5,9   | 19 ADR 1984 |
| 50 90                                       | PH            |                     | 5.6   | 26 APR 1984 |
| 5D 30 ·                                     | pH            | 6.0.9.0             | 5.0   |             |



# BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> MAIN/WRP/shk 11345.4 10 May 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, SBA-160

1. The Rifle Range Wastewater Treatment Plant violated the parameter for percent removal of SS for the month of April 1984, parameter being 85% removal. Removal for the month of April was 82.5%.

2. There was extremely low influent solids for the entire month with an average of 40 mg/l and an effluent average of 7 mg/l.

3. We believe that a low influx is the primary reason for the low influent solids.

MAIN/DLS/shk 11345 10 May 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 10 May 1984

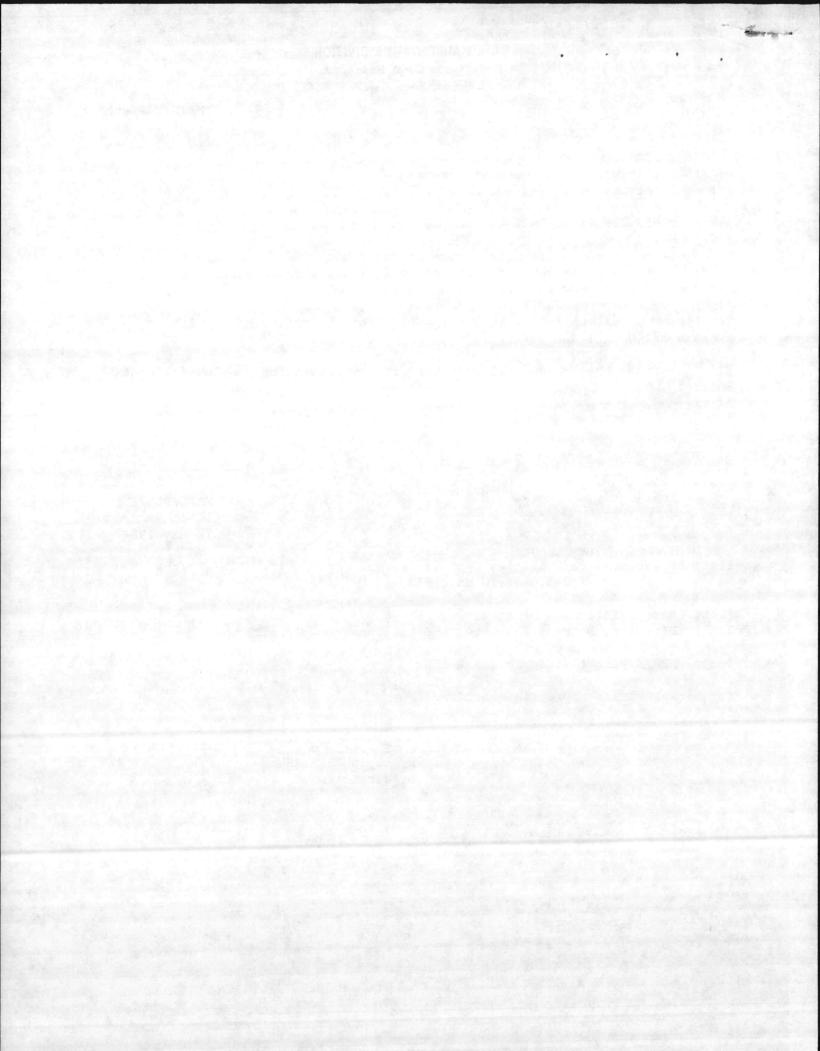
From: Base Maintenance Officer

To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, SBA-160

1. Forwarded for appropriate action.

D. J. Southerland By direction



# 5-15-55 5-15-55

# BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> MAIN/WRP/shka 11345.4 10 May 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, SBA-160

1. The Rifle Range Wastewater Treatment Plant violated the parameter for percent removal of SS for the month of April 1984, parameter being 85% removal. Removal for the month of April was 82.5%.

2. There was extremely low influent solids for the entire month with an average of 40 mg/l and an effluent average of 7 mg/l.

3. We believe that a low influx is the primary reason for the low influent solids.

WRANCE W. R. PRICE

MAIN/DLS/shk 11345 10 May 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 10 May 1984

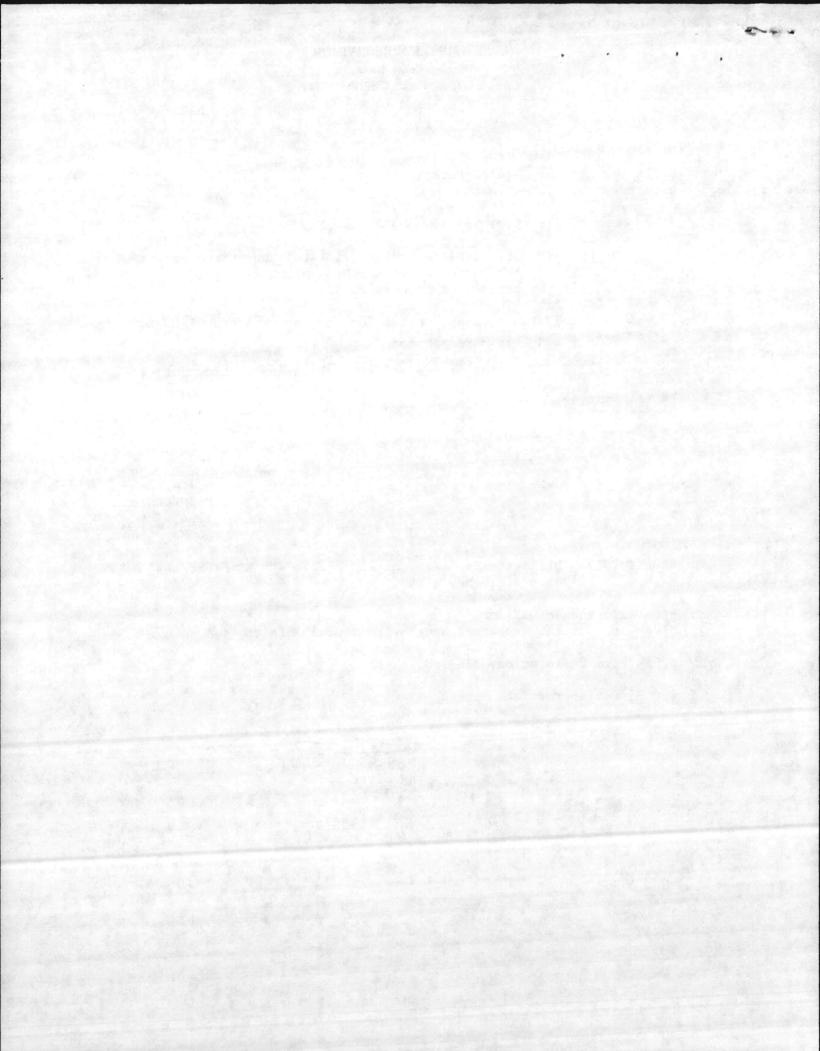
From: Base Maintenance Officer

To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, SBA-160

1. Forwarded for appropriate action.

D. L. Southerland



# JU 515.84

## BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> MAIN/WRP/shk 11345.4 130 May 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, BB-207

1. The Courthouse Bay Wastewater Treatment Plant violated the parameter for percent removal of BOD and SS for the month of April 1984, parameter being 85% removal. Removal for April was 80.4% BOD and 73.8% SS.

2. The new raw sewage holding pond was put into operation on March 23, 1984. The initial adjustment period required more time than expected dume to pond discharge pumps being oversized for present plant capacity. The capacity of the pond discharge pumps is considerably greater than the existing plant capacity. This resulted in the plant being flooded for approximately two hours and then it was off for approximately the same period of time. This allowed the filter growth to dry out and fall off. Also, raw sewage was being diluted in pond due to influent line being submerged in apparoximately two feet of water.

3. A new 250 gallons per minute pump has been ordered to replace one of the existing 500 GPM pumps in pond which will give an even and continuous flow that is compatible with the existing plant capacity. Also, the imfluent sampling point has been relocated to the lift station, Building STBB-1, where a more representative sample can be collected.

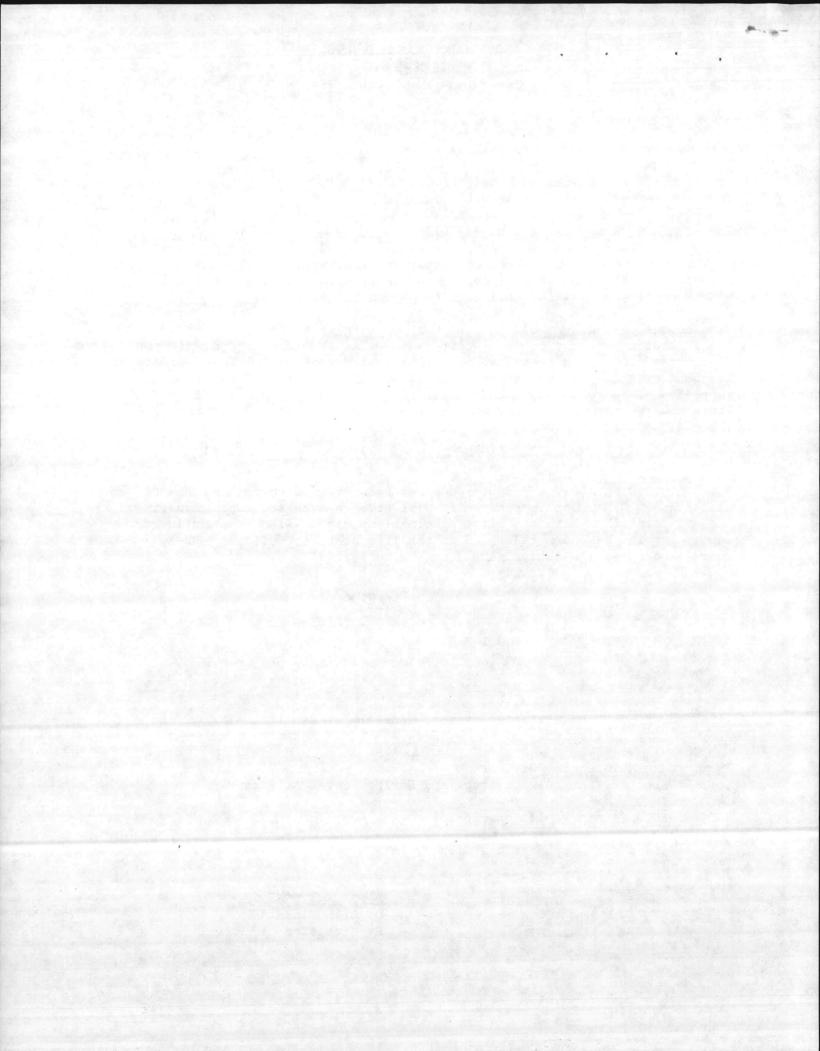
MANIN/DLS/shk INB45 ICO May 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 10 May 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

- Subj: NPDES Permit Violation, BB-207
- 1. Forwarded for appropriate action.

D. L. SOUTHERLAN



# BASE MAINTENANCE DIVISION Marine Corps Base

Camp Lejeune, North Carolina 28542

MAIN/WRP/shk 11345.4 11 April 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, RR-92

. 87

1. The Rifle Range Wastewater Treatment Plant violated the parameter for per cent removal of BOD for the month of March 1984, parameter being 85% removal. Removal for the month of March was 83.3% BOD.

2. There was an extremely low BOD influent for the entire month with an average of 30 mg/l and an effluent average of 5 mg/l. With a BOD influent this low, we cannot meet the percent removal requirement. However, we are still within the limits of total BOD discharge.

3. It is believed that the low BOD influent was due to heavy rain and very few people on the range.

MAIN/DLS/shk 11345 12 April 1984

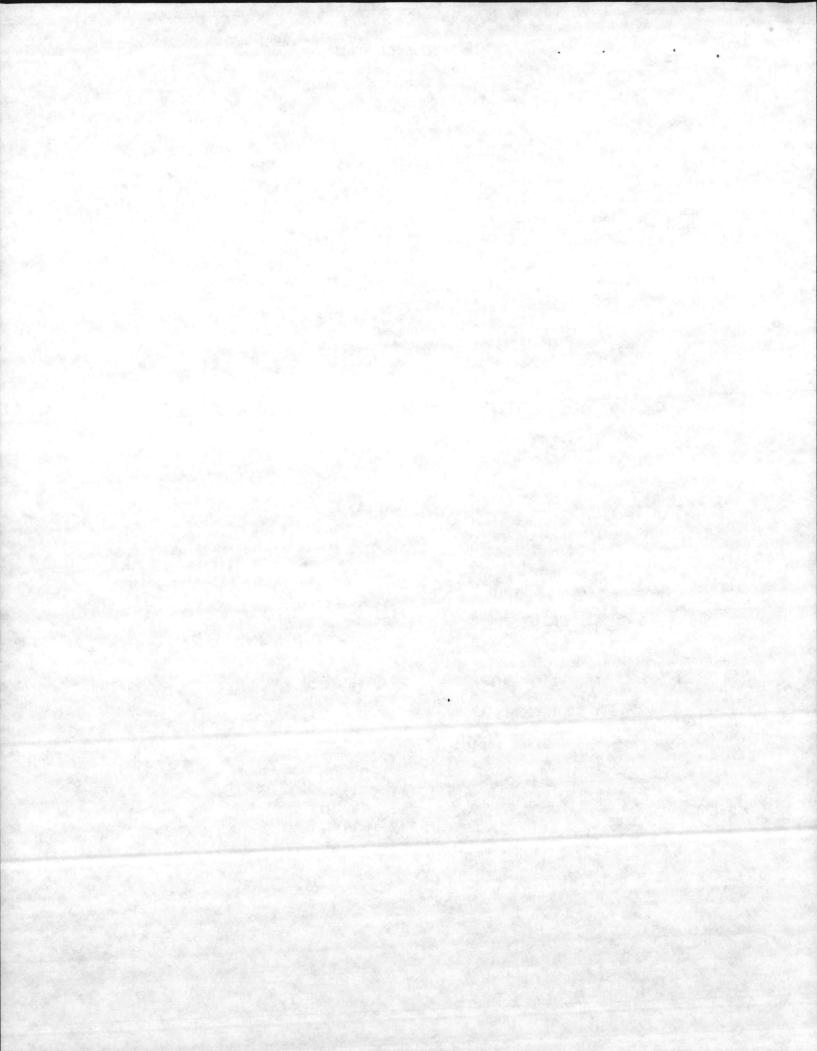
FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 11 April 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, RR-92

1. Forwarded for appropriate action.

D. L. SOUTHERLAND By direction



# BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> MAIN/WRP/shk 11345.4 11 April 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, BB-207

J. 2. 84

1. The Courthouse Bay Wastewater Treatment Plant violated the parameter for percent removal of BOD for the month of March 1984, parameter being 85% removal. Removal for March was 75.8% for BOD.

2. Loads of chemicals and oil from oil/water separators continued to flood the plant keeping the filter growth cut down until the 23rd when the raw sewage holding pond was put into operation.

3. The new raw sewage holding pond was put into operation on the 23rd of March. After a short period of adjustment, the shock loads should be eliminated and allow a much smoother operation.

W. R. PRICE

MAIN/DLS/shk

11345 12 April 1984

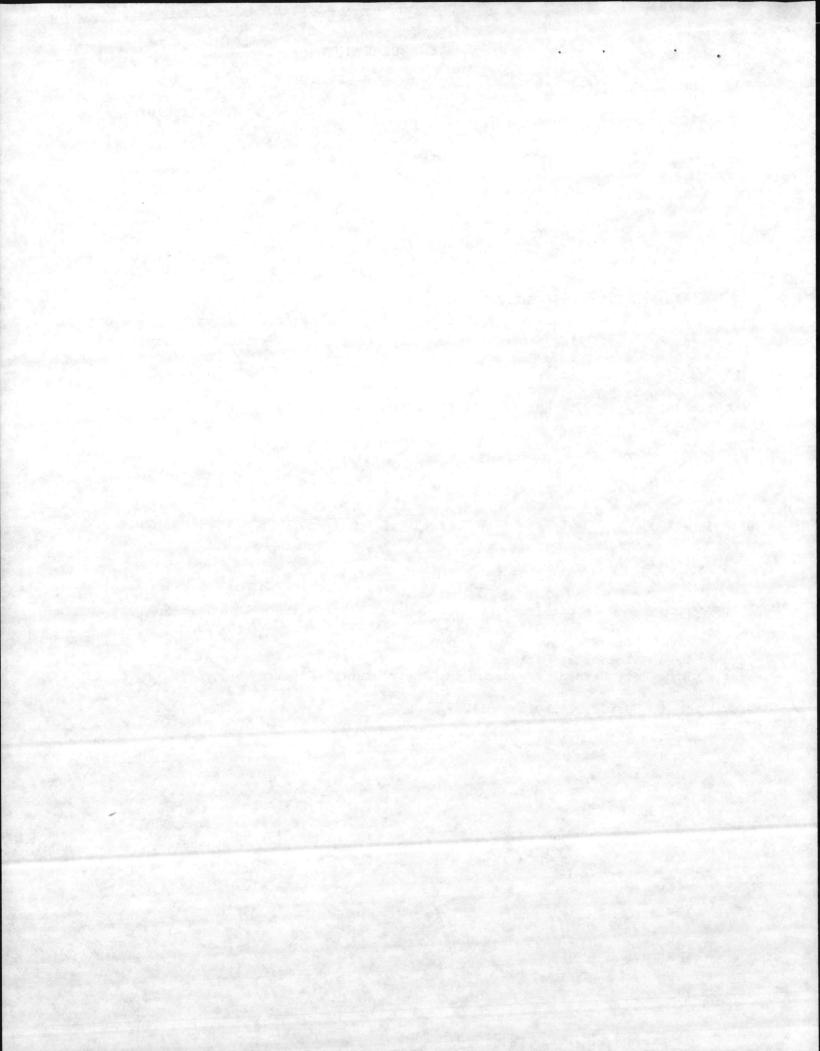
FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 11 April 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, BB-207

1. Forwarded for appropriate action.

D. L. SOUTHERLAND By direction



# BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> MAIN/WRP/shk 11345.4 11 April 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, M-136

\$V17

1. The Camp Johnson Wastewater Treatment Plant violated the parameter for per cent removal of suspended solids for the month of March 1984, parameter being 85% removal. Removal for the month of March was 84.8% suspended solids.

2. Shock loads of unidentified chemicals and red water flooded the trickling filter on the 16th and 18th, killing the filter growth which takes approximately two weeks to regain normal efficiency.

3. We have checked all areas of Camp Johnson but have been unable to locate a source or type of chemical that could have caused the destruction of filter growth.

WRAnice W. R. PRICE

MAIN/DLS/shk 11345

12 April 1984

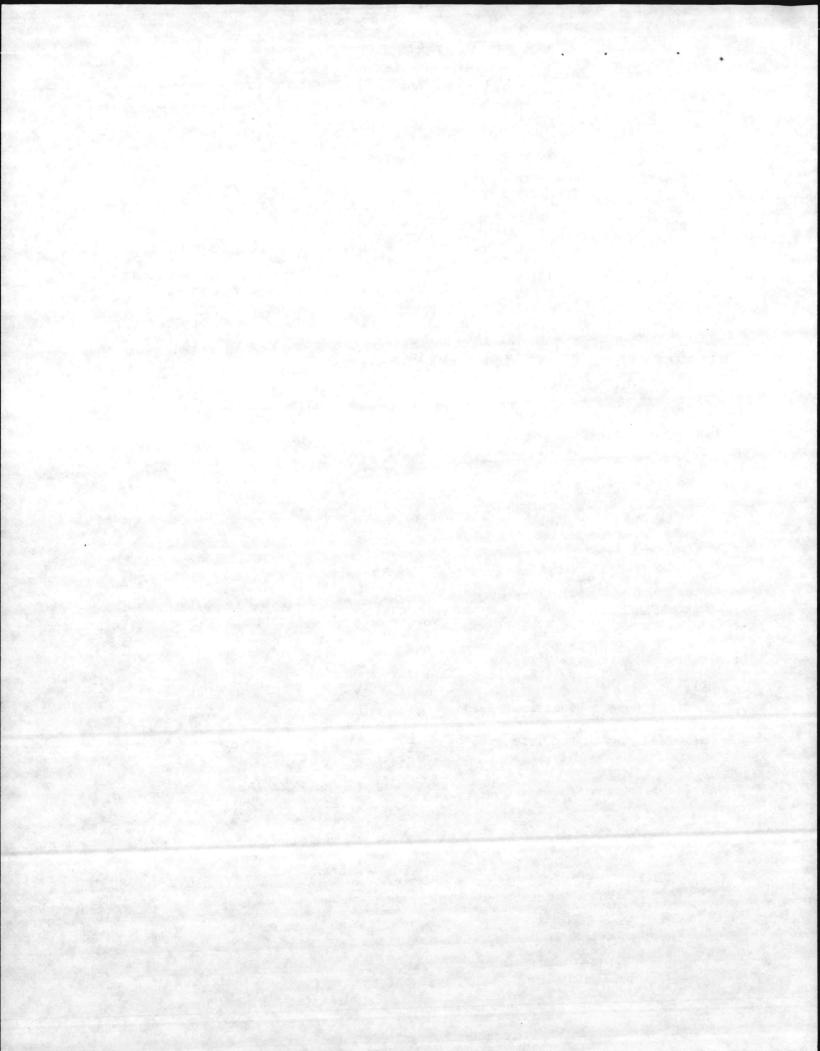
FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 11 April 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, M-136

1. Forwarded for appropriate action.

D. L.



PLANT: ALL

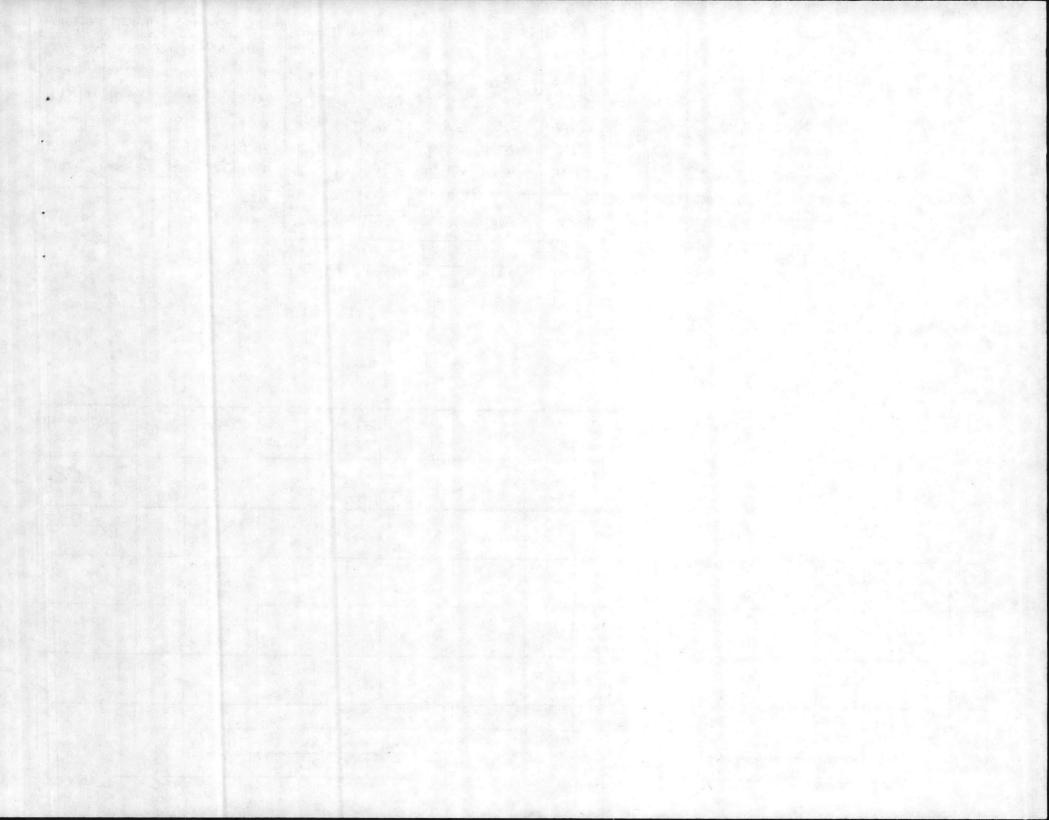
MONTH: MAY YEAR: 1784

| WEEK OF: | 1           | BOD | ENT AVE | RAGE        | T55  | COLIFORM |             |  |
|----------|-------------|-----|---------|-------------|------|----------|-------------|--|
|          | #<br>SAMPLE |     | LBS/DAY | #<br>SAMPLE | mg/L | LBSYDAY  | #<br>SAMPLE | GEOMETRIC<br>MEAN  |
| 1.5      |             |     |         |             |      |          |             |  |
| 6-12     |             |     |         |             |      |          |             |  |
| 13-19    |             |     | •       |             |      |          |             |  |
| 20-26    |             |     |         |             |      |          |             | in the second se |
| 27-31    |             |     |         |             |      |          |             | Min  |
| MONTHLY  |             |     |         |             |      |          |             |  |

|         | DAILY FLOW | BOD<br>mg/L | TSS<br>mg/L | CL2<br>PPM | PH |
|---------|------------|-------------|-------------|------------|----|
| AVERAGE |            |             |             |            |    |
| MAXIMUM |            |             |             |            |    |
| MINIMUM |            |             |             |            |    |

52 52 -GG 1-5 TT 6-10 . 69 CJ 11-15 HP 16-19 RR 20 -23 DUT OR CHB 24-27 69 OB-28-31 OB WITP 32-33 2216 2

|                | RER         | emir                 | REQUIREMENTS + LIMITS |     |                             |         |                |        | 1        | ×   | ena) z                  | 43-          |
|----------------|-------------|----------------------|-----------------------|-----|-----------------------------|---------|----------------|--------|----------|-----|-------------------------|--------------|
| Peret          | SERIAL      | FLOW                 | #JAMPLES              |     | DD + T55<br>WEEKLY AVERAGES |         | MONTH AVERAGES |        | *SAMPLES |     | FOR M<br>GEOMETRIC MEAN |              |
| . PLANT        | DERIAL<br>世 |                      | PER                   | PER | me/L                        | LBS/DAY | mc/L           | LB5/   | PER      | PER | WEEKLY                  | MONTHLY      |
| CAMP GEIGER    | 5501/11     | 1.60                 | 2                     | 8   | 45                          | 600.8   | 30             | 400.6  | 2        | 8   | #00(F)                  | 200 (F)      |
| TARAWA TERRACE | 5502/13     | 1.25                 | 2                     | 8   | 45                          | 469.4   | 30             | 312.9  | 2        | 8   | 400 (F)                 | 200(F)       |
| CAMP JOHNSON   | 5503/13     | 1.00                 | 2                     | 8   | 45                          | 375,5   | 30             | 250.3  | 2        | 8   | 400(F)                  | 200(F)       |
| HADNOT POINT   | 5504/14     | 8.00                 | 5                     | 20  | 45                          | 3004.2  | 30             | 2002.8 | 3        | 12  | Self Ser Sec.           | 70(T)        |
| RIFLE RANGE    | 5505/15     | Links and the state  | 1                     | 4   | 45                          | 197.1   | 30             | 131.4  | 1        | 4   |                         | 70(T)        |
| COURTHOUSE BAY | 5506/16     | and the state of the |                       | 4   | 45                          | 195.1   | 30             | 131.4  | 1        | 4   |                         | 70(T)        |
|                | 5507/17     | 0.200                | i                     | 4   | 45                          | 15.1    | 30             | 50,1   | 11       | 4   | 1                       | $7\alpha(T)$ |



| PL  | • | ~ | т |
|-----|---|---|---|
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|       | 1     |
|-------|-------|
| AONTH | APRIC |
|       |       |

YEAR:\_\_\_

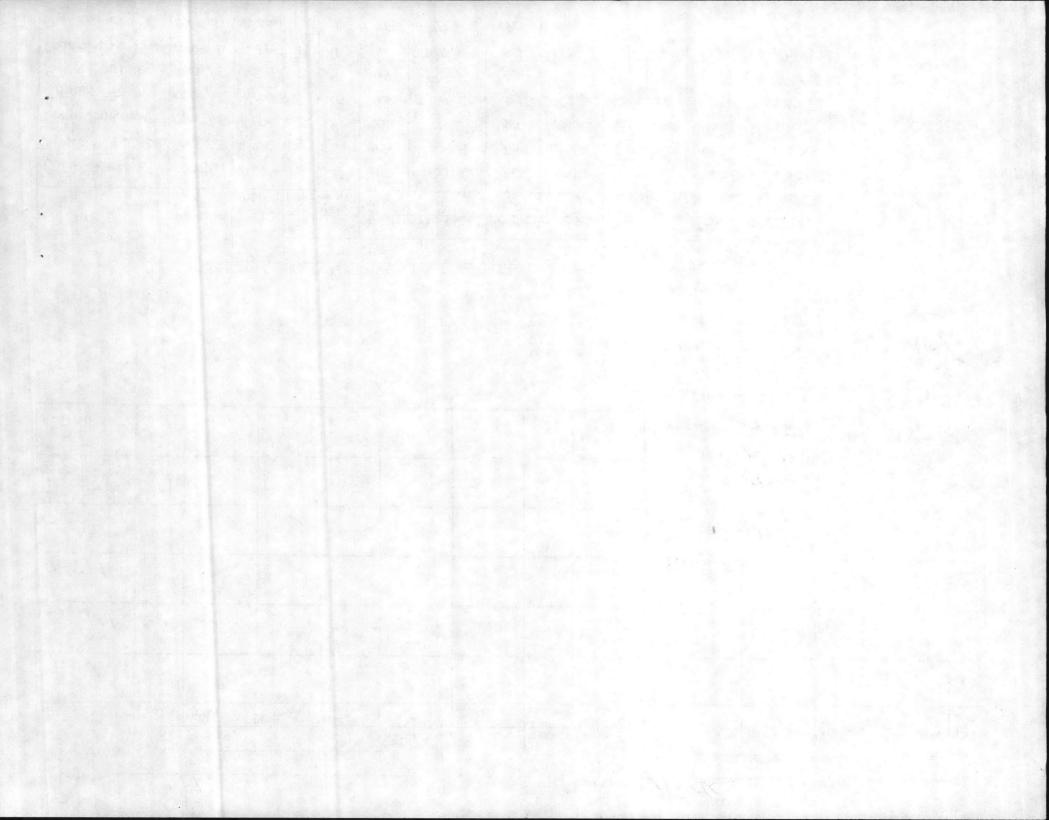
|                  | 1           |                                     | ENT AVE |            | 2<br>T55 |            | COLIFORM    |         |  |
|------------------|-------------|-------------------------------------|---------|------------|----------|------------|-------------|---------|--|
|                  | #<br>SAMPLE | BOD<br># BOD<br>SAMPLE MO/L LBS/DAY |         |            | mGL      | LBSYDAY    | # GEOMETRIC |         |  |
| WEEK OF :        | SAMPLE      | mor                                 | TDAY    | SAMPLE     | 1        | PAY        | SAMPLE      | MEAN    |  |
| 1-7              |             |                                     |         |            |          |            |             |         |  |
|                  |             | 1                                   |         | 1          |          |            |             |         |  |
| 8-14             |             |                                     |         |            |          |            |             |         |  |
|                  |             |                                     |         |            |          |            |             |         |  |
| 15-71            |             |                                     |         |            |          | . Altering |             |         |  |
|                  |             |                                     | No. and | The second |          |            |             |         |  |
| 22-28            |             |                                     |         | -          |          |            | 1           |         |  |
| HP ONLY<br>29.30 | 1           |                                     |         | - Vite     |          |            | - nesser    |         |  |
| 29:30            |             | N                                   | A BOAR  | -          | Sec. 1   |            |             | 1 12 1  |  |
|                  |             |                                     |         |            |          |            |             | and the |  |
| MONTHLY          |             | 1. 19                               |         | a will     |          |            | 1           |         |  |

|         | DAILY FLOW<br>GPD | BOD<br>mg/L | TSS<br>mg/L | Ciz<br>PPm | рН |
|---------|-------------------|-------------|-------------|------------|----|
| AVERAGE |                   |             | 1.00        |            |    |
| Maximum |                   |             |             |            |    |
| MINIMUM |                   |             |             |            | 1  |

CG 1-4 TI - 5-8 CJ - 9-12 HP-13-16 RR-14-20 CHB - 21 - 24 O.B. - 25-28 OB WTP 29-30 1200 31-39



|                | RER                   | zmit          | REC   | DUIRE     | EMEN   | TS + LIN | nits  |          |       |       | <del>0-90</del><br>50 - 31 |         |
|----------------|-----------------------|---------------|-------|-----------|--------|----------|-------|----------|-------|-------|----------------------------|---------|
| 1              |                       |               |       | BOD + TSS |        |          |       | 1.2.3    |       | FORM  |                            |         |
| . PLANT        | SERIAL                | FLOW          | #SAM  | PLES      | WEEKLY | AVERAGES | MONTH | AVERAGES | #SAMP | LES   | GEOMETRI                   | MEAN    |
|                | #                     |               | PER   | MONTH     | me/L   |          | mc/L  | LBS      | PER   | MONTH | WEEKLY                     | MONTHLY |
| CAMP GEIGER    | 5501/11               | 1.60          | 2     | 8         | 45     | 400.8    | 30    | 400.6    | 2     | 8     | \$00(F)                    | 200 (F) |
| TARAWA TERRACE | And the second second |               | 2     | 8         | 45     | 469.4    | 30    | 312.9    | 2     | 8     | 400 (F)                    | 200(F)  |
| CAMP JOHNSON   | 5503/13               |               | 2     | 8         | 45     | 375,5    | 30    | 250.3    | 2     | 8     | 400(F)                     | 200(F)  |
| HADNOT POINT   | 5504/14               | 1.2.1681.2271 | 5     | 20        | 45     | 3004.2   | 30    | 2002.8   | 3     | 12    |                            | .70(T)  |
| RIFLE RANGE    | 5505/15               | 1. Sty 193.   | 1     | 4         | 45     | 197.1    | 30    | 131.4    | 1     | 4     | -                          | 70(T)   |
| COURTHOUSE BAY | 5506/16               |               | 1.000 | 4         | 45     | 195.1    | 30    | 131.4    | 1     | 4     |                            | 70(T)   |
| ONSLOW BEACH   | 5507/17               |               | 1     | 4         | 45     | 15.1     | 30    | 50,1     | l i   | 4     | l                          | 1 7a(T) |



PLANT: Au

MONTH: MARCH YEAR: 1987

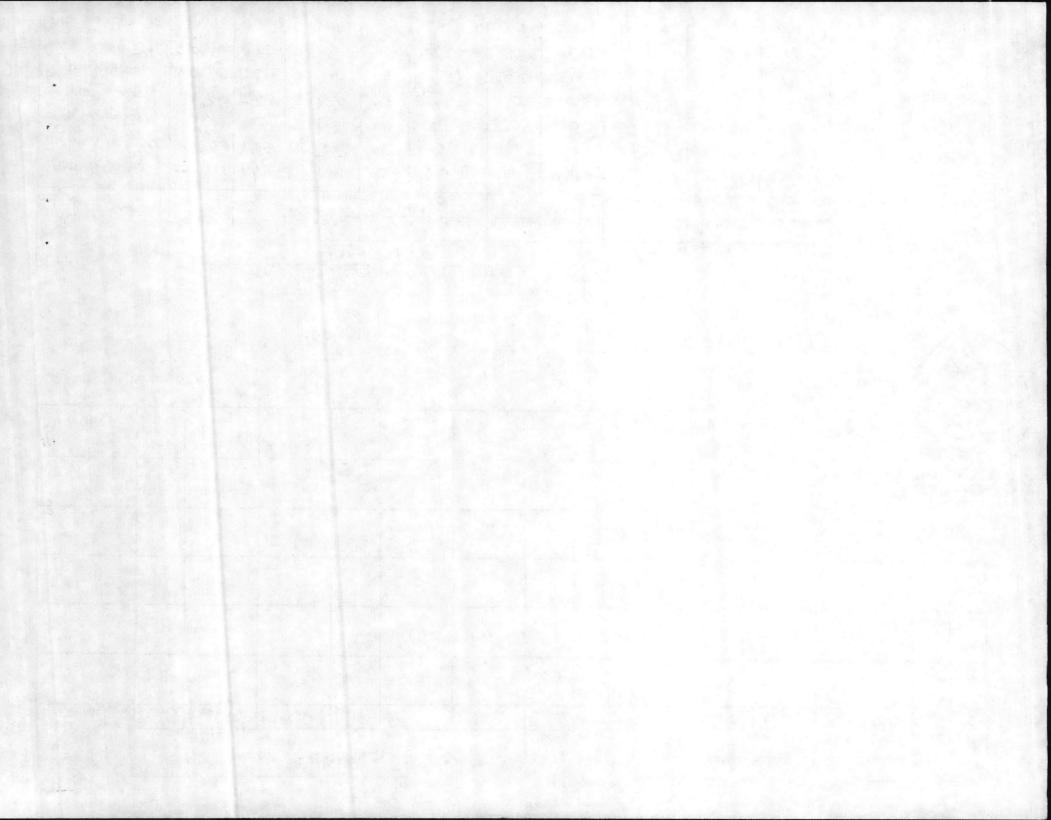
| 1           |             |         |                |                |             |          |                   |
|-------------|-------------|---------|----------------|----------------|-------------|----------|-------------------|
|             | BOD         |         |                |                | COLIFORM    |          |                   |
| #<br>SAMPLE | ma/L        | LBS/DAY | #<br>SAMPLE    | mG/L           | LBS/DAY     | SAMPLE   | GEOMETRIC<br>MEAN |
|             |             |         |                |                | S Lat gas   | A States |                   |
| •           |             |         |                |                | A BAR STA   |          |                   |
|             |             |         |                |                |             |          |                   |
|             |             |         |                |                |             |          |                   |
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|             |             | 1-1-1-1 |                |                |             |          | 1000              |
|             |             |         |                |                |             |          |                   |
| 12.11       |             |         |                |                | 10 1994 ··· |          |                   |
|             | Sec. 1      |         |                | 1.46           | Sale Sales  |          |                   |
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|             | <u>`</u>    |         |                |                |             |          |                   |
|             |             |         |                |                |             |          |                   |
|             | #<br>SampLE | BOD     | BOD            | BOD            |             | BOD TSS  | BOD TSS COLIF     |

|         | DAILY FLOW | BOD<br><sup>mg</sup> /L | TSS<br>mg/L | CL2<br>PPM | рН |
|---------|------------|-------------------------|-------------|------------|----|
| AVERAGE |            |                         |             |            |    |
| Maximum |            |                         |             |            |    |
| MINIMUM |            |                         |             |            |    |

CG- 1-5 TI-6-10 SD 43 CJ-11-15 HP-16-19 RR - 20 - 23 QHB - 24 - 27 OB- 28-31 OBUTP 32-33 22.)

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|----------------|---------|--|-----------|--------------|--------|----------|---------|----------|-------|----------|----------|---------|--|
|                |         |  | BOD + T55 |              |        |          |         |          |       | COLIFORM |          |         |  |
| PLANT          | SERIAL  | FLOW   | #SAM      | PIES         | WEEKLY | AVERAGES | MONTH . | AVERAGES | #SAMP | LES      | GEOMETRI | C MEAN  |  |
| ILAN I         | #       |  | PER       | PEE<br>MONTH | me/L   | LBS/DAY  | mc/L    | LBS      | PER   | MONTH    | WEEKLY   | MONTHLY |  |
| CAMP GEIGER    | 5501/11 | 1.60   | 2         | 8            | 45     | 400.8    | 30      | 400.6    | 2     | 8        | \$00(F)  | 200 (F) |  |
| TARAWA TERRACE |         |  | 2         | 8            | 45     | 469.4    | 30      | 312.9    | 2     | 8        | 400 (F)  | 200(F)  |  |
| CAMP JOHNSON   | 5503/13 | The second s | 2         | 8            | 45     | 375,5    | 30      | 250.3    | 2     | 8        | 400(F)   | 200(F)  |  |
| HADNOT POINT   | 5504/14 | 8.00   | 5         | 20           | 45     | 3004.2   | 30      | 2002.8   | 3     | 12       |          | 70(T)   |  |
| RIFLE RANGE    | 5505/15 | 0.525  | 1         | 4            | 45     | 197.1    | 30      | 131.4    | 1     | 4        |          | 70(7)   |  |
| COURTHOUSE BAY | 5506/16 | 0.525  | 1         | 4            | 45     | 195.1    | 30      | 131.4    | 1     | 4        |          | 70(T)   |  |
| ONSLOW BEACH   | 5507/17 | 0.200  | i         | 4            | 45     | 75.1     | 30      | 50,1     | 11    | 14       | I. San   | 1 7a(T) |  |

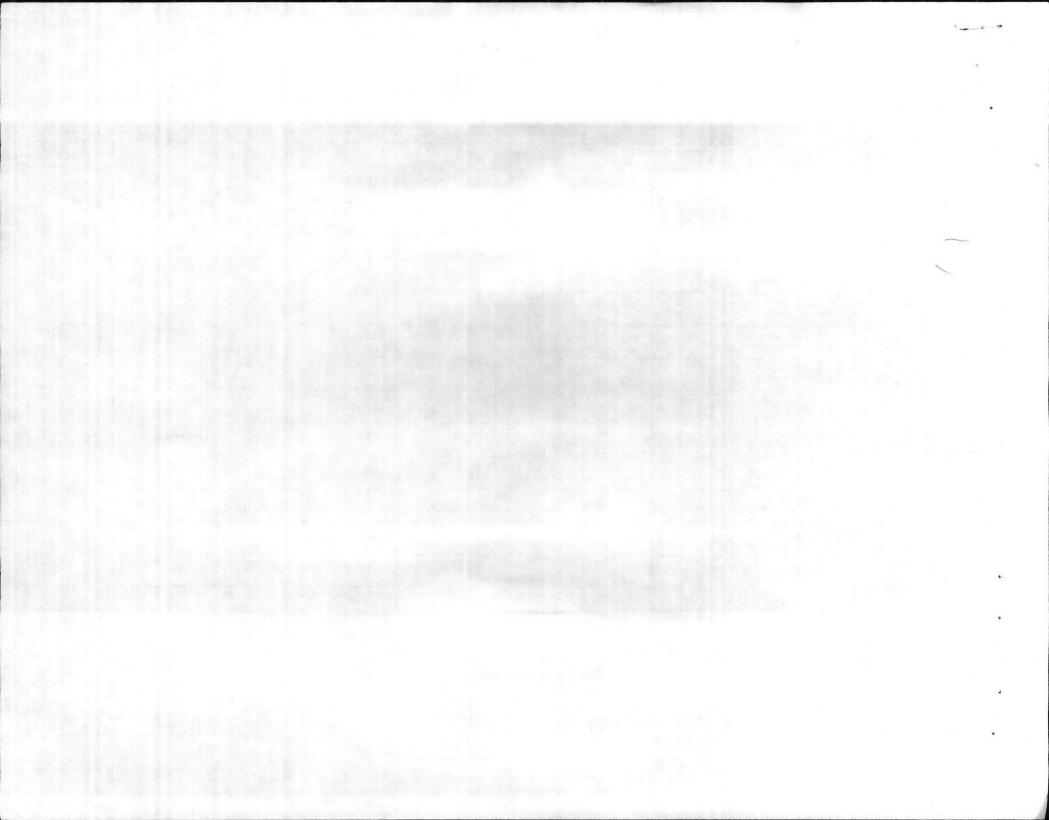


| 00403<br>pH Laboratory         SAMPLE<br>MEASUREMENT         SAMPLE<br>MEASUREMENT         8.4           00403<br>pH Laboratory         PERMIT<br>REQUIREMENT         6.0         10.0           00403<br>pH Laboratory         MAR 84         PERMIT<br>REQUIREMENT         6.0         10.0           00403<br>pH Laboratory         MEASUREMENT         6.0         10.0           W=         3 AFR 84         REQUIREMENT         6.0         10.0           00403<br>pH Laboratory         SAMPLE<br>MEASUREMENT         6.0         10.0           W=         // APR 84         PERMIT<br>REQUIREMENT         6.0         10.0           00403         SAMPLE         6.0         10.0  | efore completing this<br>NO. FREQUEN<br>EX ANALYSI | s form. |
|---|--|---------|
| EAGLETY         UIC-67001         MONITORING PERIOD           LOCATION         LANTDIV         FROM         MO         DAY         TO         MO         DAY         TO         MO         DAY         NOTE: Read instructions before of (8-10)           PARAMETER         (3237)         QUANTITY OR LOADING         (4 Card Only)         QUALITY OR CONCENTRATION         (34-10) | EX ANALYSI   | SAMPLE  |
| PARAMETER     UI C-67001       LOCATION     LANTDIV       PARAMETER     (3 Card Only)       (32.37)     (3 Card Only)       QUA03     SAMPLE       W=     /3 NAR 84       PERMIT     6.0       00403       pH Laboratory       W=     SAMPLE       Measurement       00403       pH Laboratory       W=     SAMPLE       Measurement       00403       pH Laboratory       W=     SAMPLE       Measurement       PERMIT       Requirement       00403       pH Laboratory       W=       Maximum       Massurement       PH Laboratory       W=       Massurement       PH Laboratory       W=       Massurement       PH Laboratory       W=       Massurement       PH Laboratory       Measurement       PH Laboratory       Massurement       PH Laboratory       Massurement       PH Laboratory       Massurement       PH Laboratory       Massurement       PH Laboratory       PH Laboratory       PH Laboratory   | EX ANALYSI   | SAMPLE  |
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| 00403<br>pH Laboratory SAMPLE 1 8,5   | 00 01/07   | Grab    |
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| SAMPLE<br>MEASUREMENT 813   |  |         |
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| 20 MAR REQUIREMENT  |  |         |
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED  | HONE D   | ATE     |
| ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR<br>OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION<br>IS TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THERE ARE SIG   |  | 1       |
| NIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION. INCLUDING<br>THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. \$ 1001 AND<br>33 U.S.C. \$ 1319. (Penalties under these statutes may include fines up to \$10,000<br>AREA NUMBER   | NUMBER YEAR  | MO DAY  |
| TYPED OR PRINTED and or maximum imprisonment of activers a maximum imprisonment of activers a maximum imprisonment of activers a maximum imprisonment of activers and a year. OFFICER OR AUTHORIZED AGENT CODE NOME<br>COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)   |  |         |

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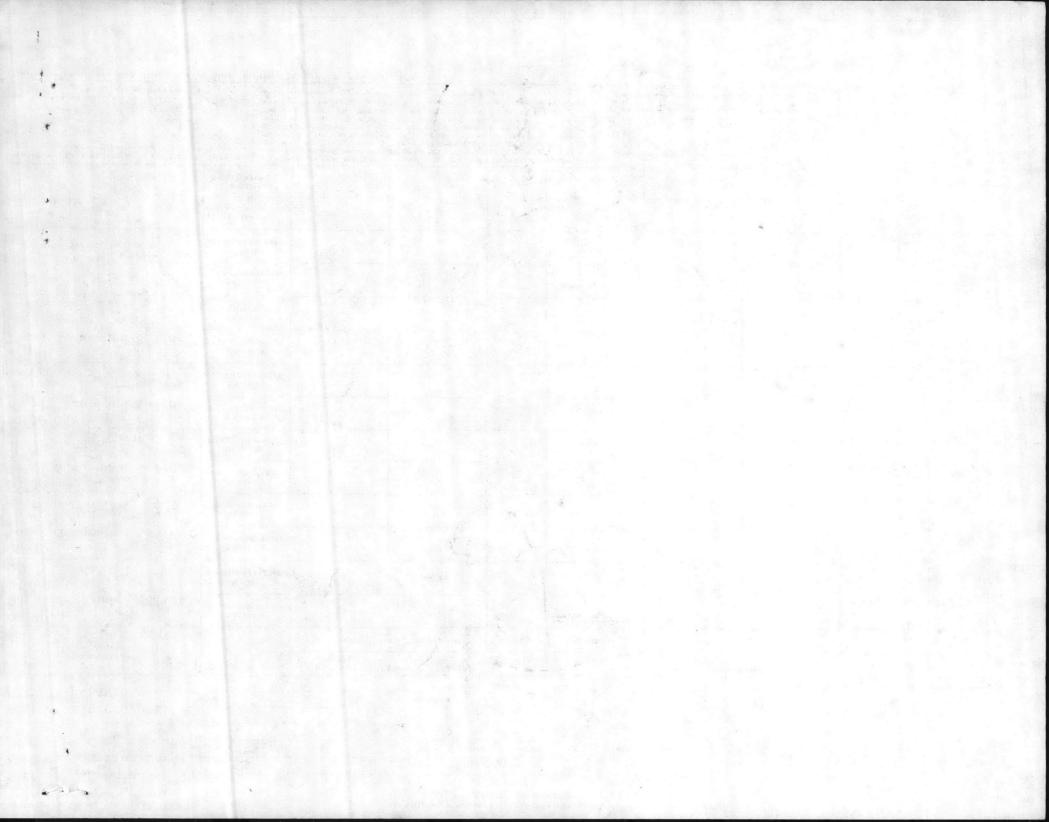
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| PERMITTEE NAME/ADDRESS (Include<br>Facility Name/Logation if different)<br>NAME Commanding_Genesal |   |  | DISCHAR  |   | ARGE ELIMINATION  |                          | ES)            |   |                     | Form App<br>OMB No. 1 | 2000-0015 |  |
|--|---|--|--|---|---|--------------------------|----------------|---|---------------------|-----------------------|-----------|--|
| <u>NAME</u> Commanding_Ge<br><u>ADDRESS</u> Marine_Corps_<br>Camp_Lejeune,                         | Base  |  | NC00032390   |   |   |                          | Onslow Beach W | Vater Tre                               | ter Treatment Plant |                       |           |  |
| damp   |   |  |  | · · · · · ·   | •   |                          |                | ·                                       |                     |                       |           |  |
| FACILITY UIC 67001   |   |  | FROM   |   |   |                          |                | structions before completing this form/ |                     |                       |           |  |
| PARAMETER<br>(32-37)   |   | (3 Card Only) QUA<br>(46-53)   | ANTITY OR LOADING<br>(54-61) .   |   |   | QUALITY OR CO<br>(46-53) |                |   | NO.                 | FREQUENCY             | SAMPLE    |  |
|  |   | AVERAGE  | MAXIMUM  | UNITS   | MINIMUM   | AVERAGE                  | MAXIMUM        | UNITS                                   | (62-63)             | ANALY515<br>(64-68)   | (69.70)   |  |
| 00530<br>Total Suspended Solids  | SAMPLE<br>MEASUREMENT   |  |  |   |   | 2.0                      | 2.5            | mg/1                                    | 00                  | 01/07                 | 8 нс      |  |
| W= 13MAR84   | PERMIT  |  |  |   |   | 30                       | 50             |   |                     | 01/07                 | Comp      |  |
| 00530<br>Total Suspended Solids  | SAMPLE<br>MEASUREMENT   |  |  |   |   | 20.0                     |                | mg/1                                    | 00                  | 01/07                 | 8 HC      |  |
| W= . 310PR 84  | PERMIT  |  |  |   |   | 30                       | 50             |   |                     | 01/07                 | Comp.,    |  |
| 00530<br>Total Suspended Solids  | SAMPLE<br>MEASUREMENT   |  |  | Salar a   |   | 2.0                      |                | mg/1                                    | 00                  | 01/07                 | 8 HC      |  |
| W= 10 APE 84   | PERMIT  |  |  |   |   | 30                       | 50             |   |                     | 01/07                 | Comp      |  |
| 00530<br>Total Suspended Solids  | SAMPLE<br>MEASUREMENT   | Sec. 19  |  |   |   | 14                       |                | mg/1                                    | 00                  | 01/07                 | 8 HC      |  |
| W= 17 Apr 84   | PERMIT  |  |  |   |   | 30                       | 50             |   |                     | 01/07 ·               | Comp      |  |
| 00530<br>Total Suspended Solids  | SAMPLE<br>MEASUREMENT   |  | 2  | · .   |   | 8.4                      |                | mg/1                                    | 00                  | 01/07                 | 8 HC      |  |
| W= 24 APR 84   | PERMIT  |  |  | 1   |   | 30                       | 50             |   |                     | 01/07                 | Comp      |  |
|  | SAMPLE<br>MEASUREMENT   |  |  | ·   |   | 1.7                      |                |   |                     |                       |           |  |
| 1. MA-184  | PERMIT<br>REQUIREMENT   |  |  |   |   |                          |                |   |                     |                       |           |  |
|  | SAMPLE<br>MEASUREMENT   |  |  | 0   |   |                          |                | _                                       |                     |                       |           |  |
|  | PERMIT  |  |  |   |   |                          |                |   |                     |                       |           |  |
| NAME/TITLE PRINCIPAL EXECUTIV  | AND AN<br>ON MY<br>OBTAINI<br>IS TRUE<br>NIFICAN<br>THE PO<br>33 U SC | A FAMILIAR WITH THE<br>INQUIRY OF THOSE<br>NG THE INFORMATION<br>C. ACCURATE AND CO<br>T PENALTIES FOR S<br>SSIBILITY OF FINE AN<br>\$1319, (Penaltics und | DE LAW THAT I HAVE<br>INFORMATION SUBMITI<br>INDIVIDUALS IMMEDIAT<br>N. I BELIEVE THE SI<br>UDMITTING FALSE IN<br>D IMPRISONMENT. SEE<br>IF there atolutes may i<br>f between 6 months and 5 | ED HEREIN, AN<br>TELY RESPONS<br>UBMITTED INFO<br>THAT THERE<br>FORMATION, III<br>18 U.S.C. I<br>Include fines up | ID BASED<br>IBLE FOR<br>DRMATION<br>ARE SIG<br>NCLUDING<br>1001 AND<br>10 \$10,000 SIGNAT | URE OF PRINCI            | 15             |   |                     |                       | TE        |  |

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NREAD/DDS/th 6280/2 2 8 MAR 1984

Regional Administrator Environmental Protection Agency Region IV, Water Enforcement Branch 345 Courtland Street Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit number NC0003239, Discharge Monitoring Reports (DMR's) for the period December 1983, January and February 1984 are submitted.

Courthouse Bay Sewage Treatment Plant violated the NPDES permit requirements for monthly Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) percent removal average for January and February 1984. Heavy influx from rain and chemicals from oil/water separators flooded the plant, damaging filter growth and allowing insufficient detention time. A newly constructed raw sewage basin has been completed and should be in full operation within a month. The new basin should allow sufficient detention time and eliminate shock loading.

Hadnot Point Sewage Treatment Plant violated the NPDES permit requirements for monthly BOD percent removal average for February 1984. During the construction and tie in of a new chlorine contact chamber at Hadnot Point, the contractor frequently backed up the flow causing a reduction in the BOD percent removal. The contact chamber should be finished within a month.

Rifle Range Sewage Treatment Plant violated the NPDES permit requirements for monthly BOD percent removal average for February 1984. The BOD influent concentrations were extremely low, with a monthly average of 32 mg/l and a maximum value of only 52 mg/l. The BOD effluent average was only 5 mg/l. Therefore, the violation was due to a low influent caused by heavy rains diluting the wastewater and a reduced number of personnel using the area.

The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the quarter were checked; however, each time they were checked they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges. Re Herri

Star group 14 Call & Rank & Long Control and applies of the second second second Sector States 1. Brenn & Jr. A. C. S. Star Marine 1 Januar Photos

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### NREAD/DDS/th 6280/2

For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Director, Natural Resources and Environmental Affairs Division, at (919) 451-5003/2083.

Sincerely,

M. G. LILLEY Colenel, U. S. Marine Corps Assistant Chief of Staff, Facilities By direction of the Commanding General

Encls: (1) DMRs (2) Discharge Violations

Copy to: NC Dept of NatRes&ComDev CMDR NAVFACENGCOM CMDR NEESA

Blind copy to: BMAINDIV (Util Br) NREAD (QCL)

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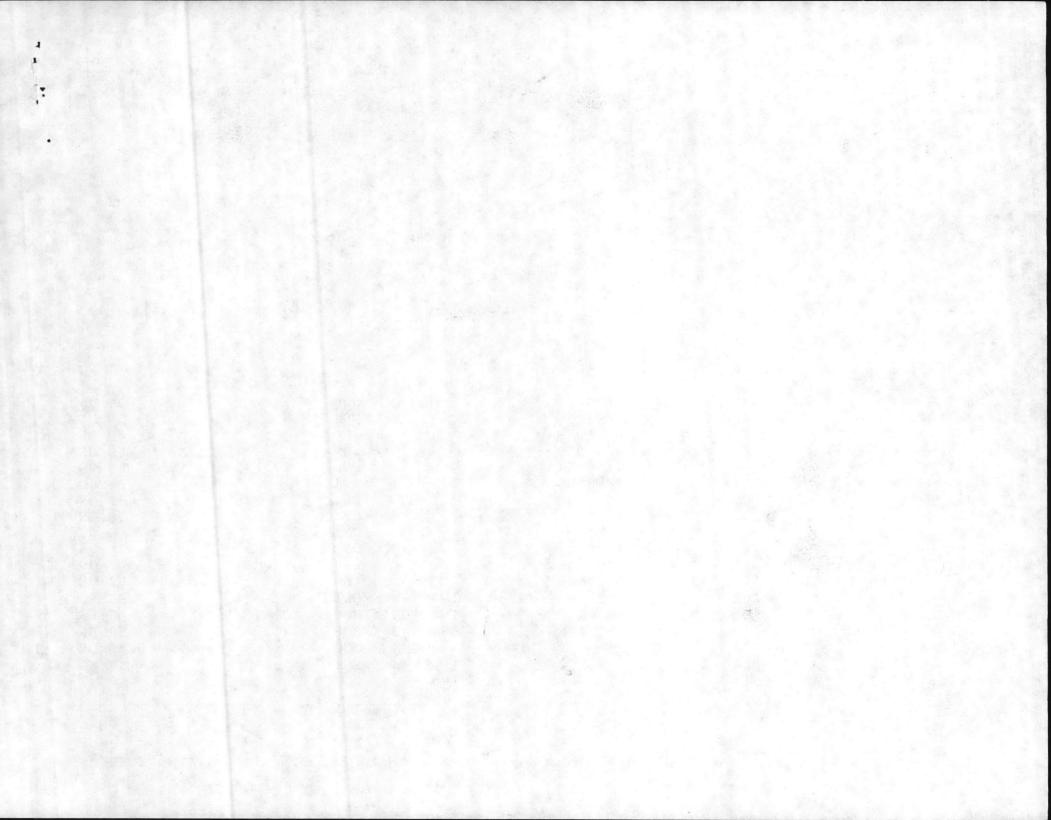
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NPDES PERMIT NO. NC0003239 DISCHARGE VIOLATIONS FOR THE PERIOD: Dec 1983, Jan and Feb 1984

| Monitoring Station |               | Parameter |       |             |
|--------------------|---------------|-----------|-------|-------------|
| or Storm Drain No. | Parameter     | Limits    | Value | Date        |
| SS 06              |               | O E e/    | 01.0% | 7 1004      |
|                    | BOD % Removal | 85%       | 81.9% | Jan 1984    |
| SS 06              | TSS % Removal | 85%       | 82.2% | Jan 1984    |
| SS 04              | BOD % Removal | 85%       | 83.9% | Feb 1984    |
| SS 05              | BOD % Removal | 85%       | 84.4% | Feb 1984    |
| SS 06              | BOD % Removal | 85%       | 73.3% | Feb 1984    |
| SS 06              | TSS % Removal | 85%       | 80.4% | Feb 1984    |
| SD 30              | рН            | 6.0-9.0   | 5.7   | 14 Dec 1984 |
| SD 40              | TSS           | 50 mg/l   | 50.4  | 14 Dec 1984 |
| SD 40              | O&G           | 15 mg/1   | 54    | 14 Dec 1984 |
| SD 57              | TSS           | 50 mg/l   | 70.8  | 20 Dec 1984 |
| SD 63              | TSS           | 50 mg/1   | 96.0  | 21 Dec 1984 |
| SD 62              | TSS           | 50 mg/1   | 57.0  | 29 Dec 1984 |
| SD 42              | TSS           | 50 mg/l   | 119.6 | 27 Feb 1984 |
| SD 63              | O&G           | 15 mg/1   | 59    | 29 Feb 1984 |
| SD 63              | pH            | 6.0-9.0   | 5.7   | 29 Feb 1984 |
| SD 64              | pH            | 6.0-9.0   | 5.8   | 29 Feb 1984 |
| SD 80              | TSS           | 50 mg/1   | 233   | 29 Feb 1984 |
| SD 80              | O&G           | 15 mg/1   | 680   | 29 Feb 1984 |



MAIN/WRP/shk 11345.4 12 March 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, RR-92

1. The Rifle Range Wastewater Plant violated the parameters for per cent removal of BOD for the month of February 1984, parameters being 85% removal. Removal affected for February was 84.4% for BOD.

2. There was an extremely low BOD influent for the entire month with an average BOD of 32 mg/l, a high of 52 mg/l and an effluent average of 5 mg/l and maximum of 7 mg/l. With a BOD influent this low, it is practically impossible to meet the requirement for per cent removal. However we are still within the limits of total BOD discharge.

3. It is believed that the low BOD influent was due to heavy rains and possibly very few people on the range.

#### W. R. PRICE

MAIN/DLS/shk 11345 12 March 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 12 March 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation HP-22

1. Forwarded for appropriate action.

D. L. SOUTHERLAND By direction MALU/W12/obje 113/3.4 12 Marci 1334

> From: Utilicies Systems Canorzi forenza Io: Director, Builicies Franch

> > Subj: MDES Persit Violation, LA-92

 The Rifle Range Warnewster Plant violated the parameters for par qual removal of 200 for the month of february 1964, parameters bates 652 removal. femovel affected for February was 30.41 for 500.

A. There was an extremely low solt influent for the unitre south with an average 600 or 42 mg/1, a high of 51 mg/1 and an alllught average of 5 mg/1, and maximum of 7 mg/1. With a 60% influent, this low, it is practically impossible to meet the requirement for our cant manyal. However we are still within the limits of fotal 50% dispharge.

W. C. SMIER

Adria Mariu Gara I.a.

 Inclusion bullayed that one low BON influent was due to heavy rates and possibly very few poorle on the ran c.

MAIN/MSFailt 11345 13 March 1934

Tishi di Musikar en Otificies Systeme Cenèral Foresan lie MATE/abi

from: Lass Milntonance Officer To: Director, Netural Resources and Environmental Atlairs Sec.

Subjr MPUES Fernic Violetzon 42-24

.1. Forwarded for appropriate action.

MAIN/WRP/shk 11345.4 12 March 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, BB-207

1. The Courthouse Bay Wastewater Plant violated the parameters for per cent removal of BOD and SS for the month of February, 1984, parameter being 85% for BOD and SS. Removal affected for February was 73.3% BOD and 80.4% SS.

2. Heavy influx from rain and chemicals from oil/water separators continue to flood the plant, damaging filter growth and allowing insufficient detention time.

3. The newly constructed raw sewage holding basin was not put into operation as expected in February. However, the new date is set for March 13, 1984. When it is put in operation, it should allow sufficient detention time and eliminate shock loading.

#### W. R. PRICE

MAIN/DLS/shk 11345 12 March 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman 1tr MAIN/WRP/shk 11345.4 of 12 March 1984

- From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs
- Subj: NPDES Permit Violation, BB-207
- 1. Forwarded for appropriate action.

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MAIN/WRP/shk 11345.4 12 March 1984

From: Utilities Systems General Foreman/ To: Director, Utilities Branch

Subj: NPDES Permit Violation, HP-22

1. The Hadnot Point Wastewater Plant violated the parameter for per cent removal of BOD for the month of February 1984, parameters being 85% removal. Removal affected for February was 83.9% for BOD.

2. The chlorine contact chamber is presently being replaced under Contract Number N62470-71-B-1154. Due to methods used by contractor to control the flow while erecting new junction box, the flow was eratic and continuously stirred up; also many times, it did not have sufficient contact time.

3. The new chlorine contact chamber should be in operation within one to two weeks. This will allow regulation of the flow giving full contact time which should eliminate the existing problem.

#### W. R. PRICE

MAIN/DES/shk 11345 12 March 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 12 March 1984

- From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs
- Subj: NPDES Permit Violation, HP-22
- 1. Forwarded for appropriate action.

D. L. SOUTHERLAND By direction Tron Difficant (acces General Poremin) To: Director, Utilizies Righton

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BASE MAINTENANCE DIVISION Marine Corps Base Camp Lejeune, North Carolina 28542

Courtesy com Sent to

MAIN/WRP/shk 11345.4 10 February 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, BB-207

1. The Courthouse Bay Wastewater Treatment Plant violated the parameters for per cent removal of BOD and SS for the month of January 1984, parameter being 85% removal. Removal affected for January was 81.9% BOD and 82.2% for SS.

2. Shock loads of unidentified chemicals from oil/water separators flooded the trickling filter killing large sections of the zoogleal mass. When this happens the plant cannot meet the requirement for 85% memoval.

3. The newly constructed raw sewage basin will be completed within one week. When this is put into operation, it should allow sufficient detention time and eliminate shock loading.

W. R. PRICE

MAIN/DLS/shk 11345.4 10 February 1984

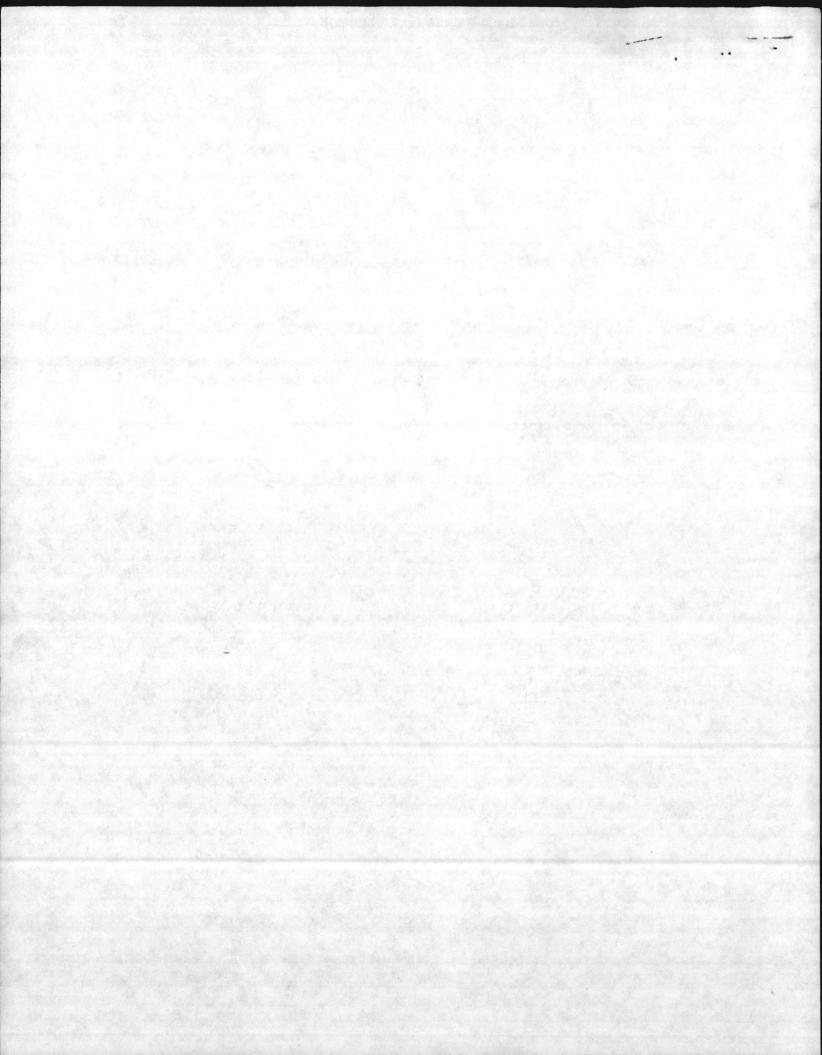
FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 10 February 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, BB-207

1. Forwarded for appropriate action.

SOUTHERI By direction



NREAD/EAB 6280/2

Regional Administrator Environmental Protection Agency Region IV, Water Enforcement Branch 345 Courtland Street Atlanta, Georgia 30309

Dear Sir:

In accordance with requirements of National Pollutant Discharge Elimination System (NPDES permit number NCO003239, Discharge Monitoring Reports (DMRs) for the period December 1983, January and February 1984 are submitted.

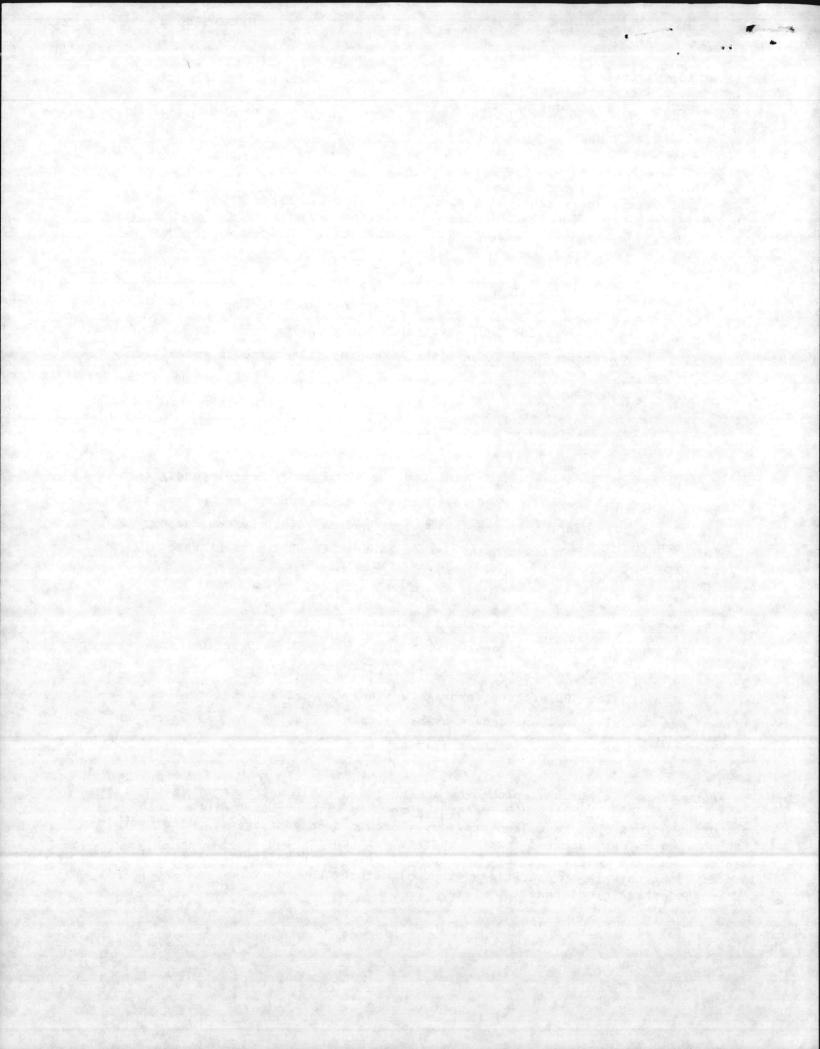
Courthouse Bay Sewage Treatment Plant violated the NPDES permit requirements for monthly Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) percent removal average for Janaury and February 1984. Heavy influx from rain and chemicals from oil/water separators flooded the plant, damaging filter growth and allowing insufficient detention time. A newly constructed raw sewage basin has been completed and should be in full operation within a month. The new basin should allow sufficient detention time and eliminate shock loading.

Hadnot Point Sewage Treatment Plant violated the NPDES permit requirements for monthly BOD percent removal average for February 1984. During the construction and tie in of a new chlorine contact chamber at Hadnot Point the contractor frequently backed up the flow causing a reduction in the BOD percent removal. The contact chamber should be finished within A MONTH

Rifle Range Sewage Treatment Plant violated the NPDES permit requirements for monthly BOD percent removal average for February 1984. The BOD influent concentration were extremely low, with a monthly average of 32 mg/l and a maximum value of only 52 mg/l. The BOD effluent average was only 5 mg/l. Therefore the violation was due to a low influent caused by heavy rains diluting the wastewater and a reduced number of personnel using the area.

The storm drain violations depicted by the enclosed table may be correlated with base geography and facilities by referring to maps with numbered storm drain monitoring points that have been previously provided to your agency. Storm drains that have no values reported for the quarter were checked; however, each time they were checked they were either dry or had no flow. The base environmental staff is continuing to work on operational control methodology to reduce oil and grease and suspended solids discharges.

guw

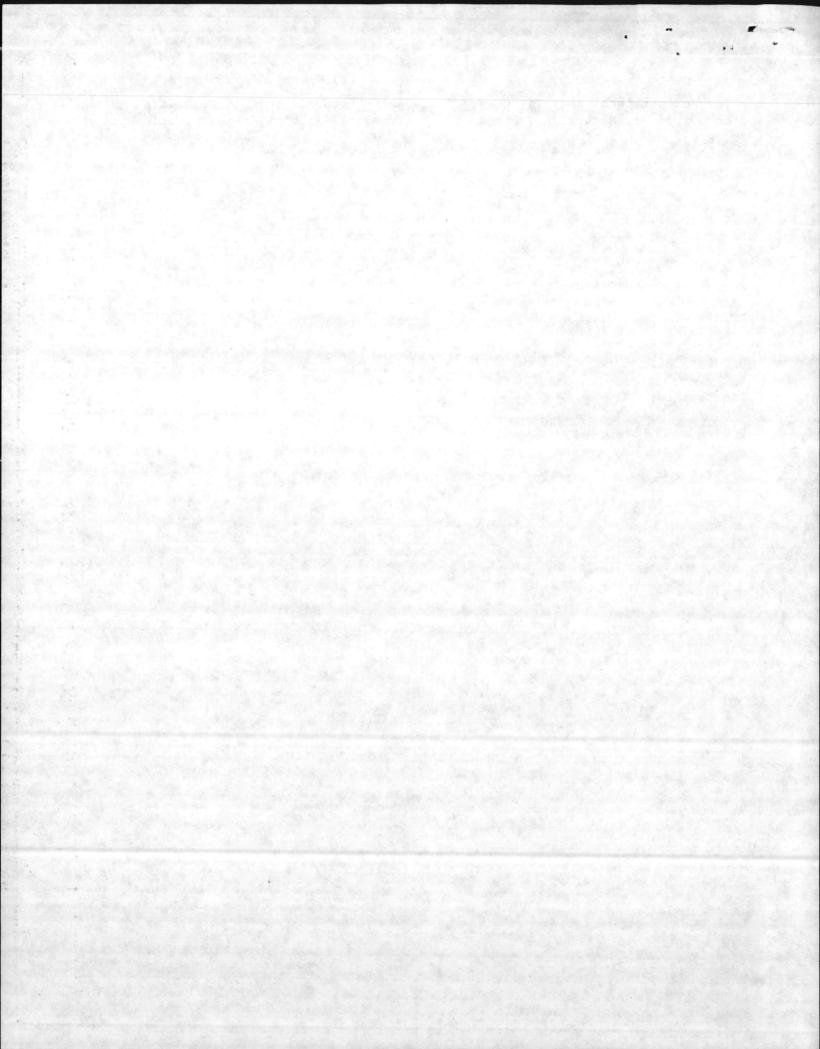


For further pertinent details on any of the above, you may contact Mr. Julian Wooten, Director, Natural Resources and Environmental Affairs Division, telephone (919) 451-5003/2083.

Encls: (1) DMRs (2) Discharge Violations

Copy to: NC Dept of NatRes&ComDev CMDR NAVFACENGCOM CMDR NEESA

Blind copy to: BMaintDiv (Util Br) QCL NREAD

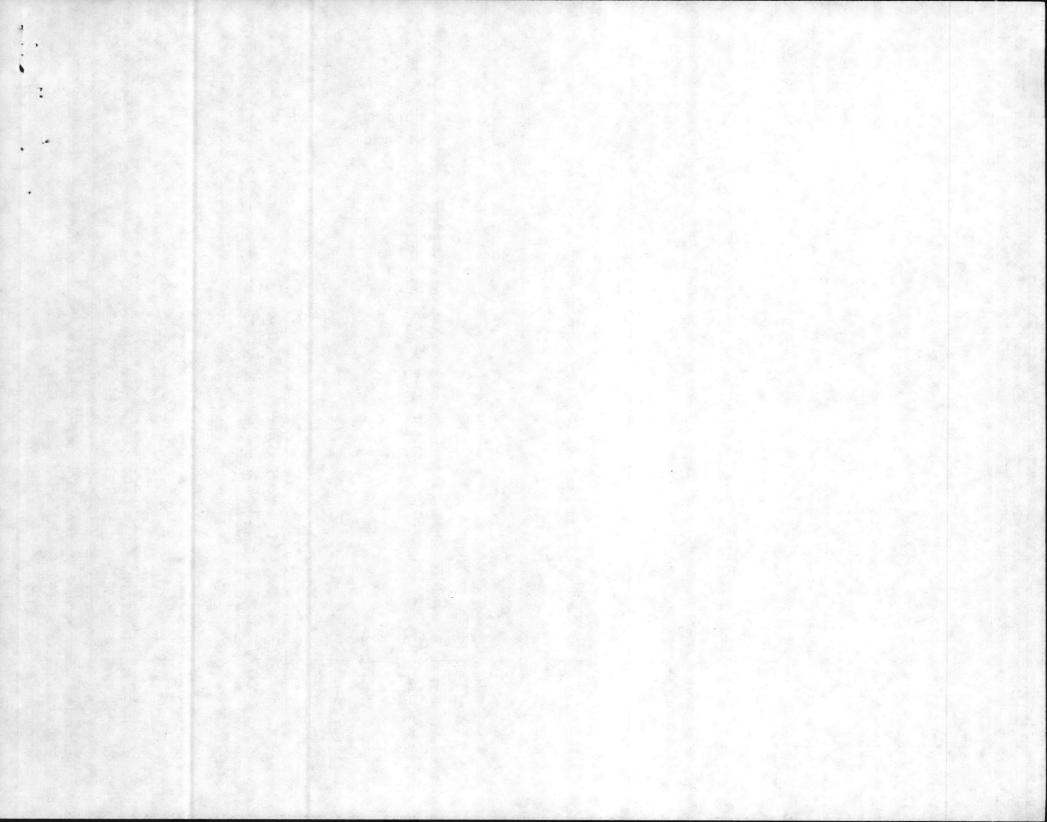


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NPDES PERMIT NO. NCOO03239 DISCHARGE VIOLATIONS FOR THE PERIOD DECEMBER 1983, JANUARY - FEBRUARY 1984

|  |               | · · · ·             |       |            |
|--|---------------|---------------------|-------|------------|
| Monitoring Sta.<br>or Storm Drain<br><u>Number</u> | Parameter     | Parameter<br>Limits | Value | Date       |
| 55 06  | BOD % REMOVAL | 85%                 | 81.9% | JAN 1984   |
| 5506   | TSS % REMOVAL | 85%                 | 82.2% | JAN 1984   |
| 5504   | BOD % REMOVAL | 85%                 | 83.9% | FEB 1984   |
| 5505   | BOD % REMOVAL | 85%                 | 84.4% | Feris 1984 |
| SSOL   | BOD % REMOVAL | 85°%                | 73.3% | FEB 1984   |
| 5506   | TSS % REMOVAL | 85 %                | 80.4% | FEB 1984.  |
| SD 30  | PH            | 6.0-9.0             | 5.7   | · 14 DEC : |
| SD 40  | TSS           | 50 mg/1             | 50.4  | 14 DEC     |
| 5040   | OIG           | 15 mg/i             | 54    | 14 DEC     |
| SD 57  | TSS           | 50 mg/1             | 70:8  | 20 DEC     |
| 50 63  | TSS           | somgli              | 96.0  | ZIDEC      |
| SD 62  | 755           | 50 mg/1             | 57.0  | 29 Dec     |
| 5D 42  | T35           | 50 mg /1            | 119.6 | 27 FEB     |
| SD 63  | OF C          | 15 mg /1            | 59    | 29 FEB     |
| 5D 63  | મંત્          | 6.0-9.0             | 5.7   | Z9 FEB     |
|  | PH            | 6.0-9.0             | 5.8   | 29 FEB     |
| SD 64  | TSS           | 50 mg/1             | 233   | 29 FEB     |
| .SD 80   |               | 15 mg/1             | 680   | Z9 FEB     |
| . SD 80  | OrG           | , , <i>, , ,</i> ,  |       |            |

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## BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> MAIN/WRP/shk 11345.4 12 March 1984

A NU DOS

Utilities Systems General Foreman From: Director, Utilities Branch To:

Subj: NPDES Permit Violation, BB-207

1. The Courthouse Bay Wastewater Plant violated the parameters for per cent removal of BOD and SS for the month of February, 1984, parameter being 85% for BOD and SS. Removal affected for February was 73.3% BOD and 80.4% SS.

2. Heavy influx from rain and chemicals from oil/water separators continue to flood the plant, damaging filter growth and allowing insufficient detention time.

3. The newly constructed raw sewage holding basin was not put into operation as expected in February. However, the new date is set for March 13, 1984. When it is put in operation, it should allow sufficient detention time and eliminate shock loading.

.MAIN/DLS/shk 11345 . 12 March 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 12 March 1984

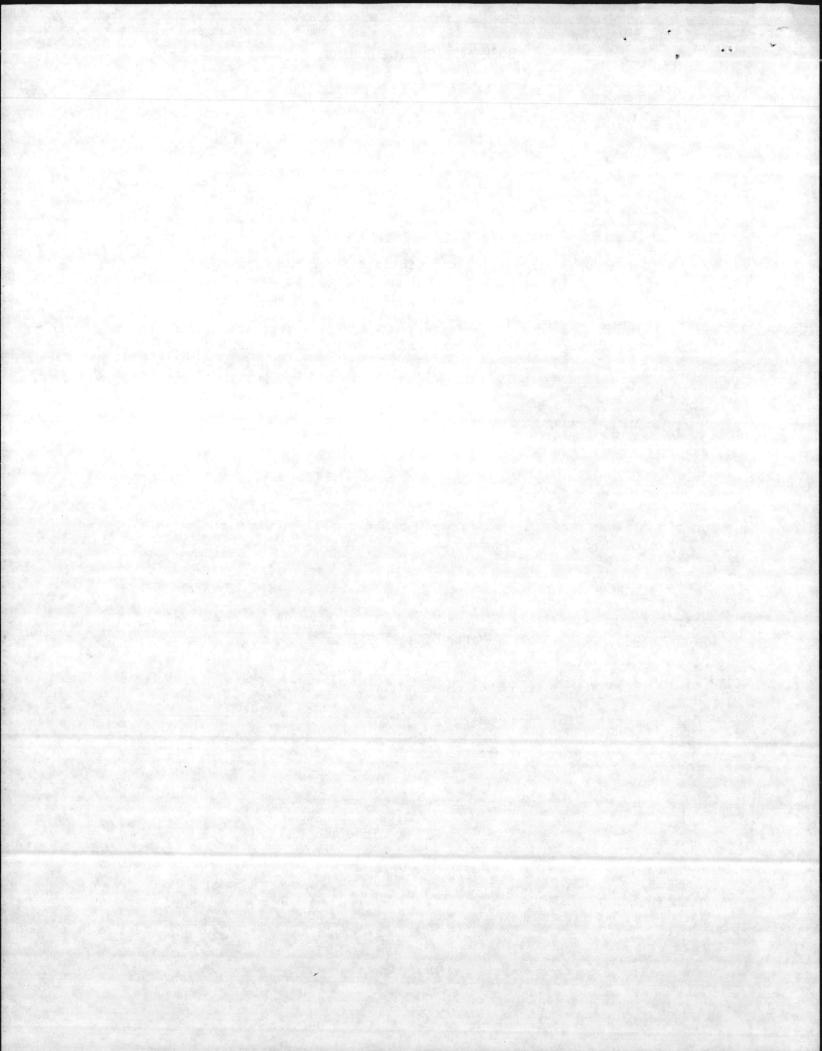
From: Base Maintenance Officer Director, Natural Resources and Environmental Affairs To:

Subj: NPDES Permit Violation, BB-207

1. Forwarded for appropriate action.

LE Southerland D. L. SOUTHERLAND

By direction



# BASE MAINTENANCE DIVISION

Marine Corps Base Camp Lejeune, North Carolina 28542

> MAIN/WRP/shk 11345.4 12 March 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, RR-92

1. The Rifle Range Wastewater Plant violated the parameters for per cent removal of BOD for the month of February 1984, parameters being 85% removal. Removal affected for February was 84.4% for BOD.

2. There was an extremely low BOD influent for the entire month with an average BOD of 32 mg/l, a high of 52 mg/l and an effluent average of 5 mg/l and maximum of 7 mg/l. With a BOD influent this low, it is practically impossible to meet the requirement for per cent removal. However we are still within the limits of total BOD discharge.

3. It is believed that the low BOD influent was due to heavy rains and possibly very few people on the range.

MAIN/DLS/shk 11345 12 March 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman 1tr MAIN/WRP/shk 11345.4 of 12 March 1984

From: Base Maintenance Officer

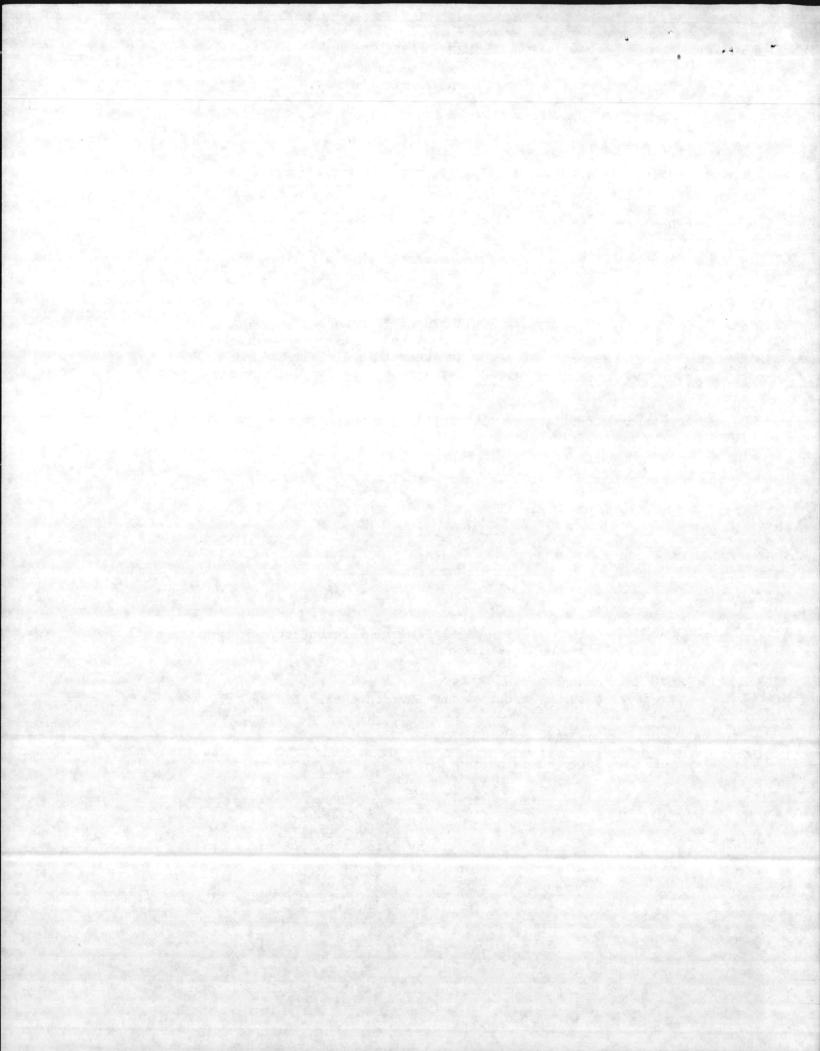
To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation HP-22

1. Forwarded for appropriate action.

D. L.

By direction



## BASE MAINTENANCE DIVISION Marine Corps Base Camp Lejeune, North Carolina 28542

MAIN/WRP/shk 11345.4 12 March 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, HP-22

1. The Hadnot Point Wastewater Plant violated the parameter for per cent removal of BOD for the month of February 1984, parameters being 85% removal. Removal affected for February was 83.9% for BOD.

2. The chlorine contact chamber is presently being replaced under Contract Number N62470-71-B-1154. Due to methods used by contractor to control the flow while erecting new junction box, the flow was eratic and continuously stirred up; also many times, it did not have sufficient contact time.

3. The new chlorine contact chamber should be in operation within one to two weeks. This will allow regulation of the flow giving full contact time which should eliminate the existing problem.

W. R. PRICE

MAIN/DLS/shk 11345 12 March 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman 1tr MAIN/WRP/shk. 11345.4 of 12 March 1984

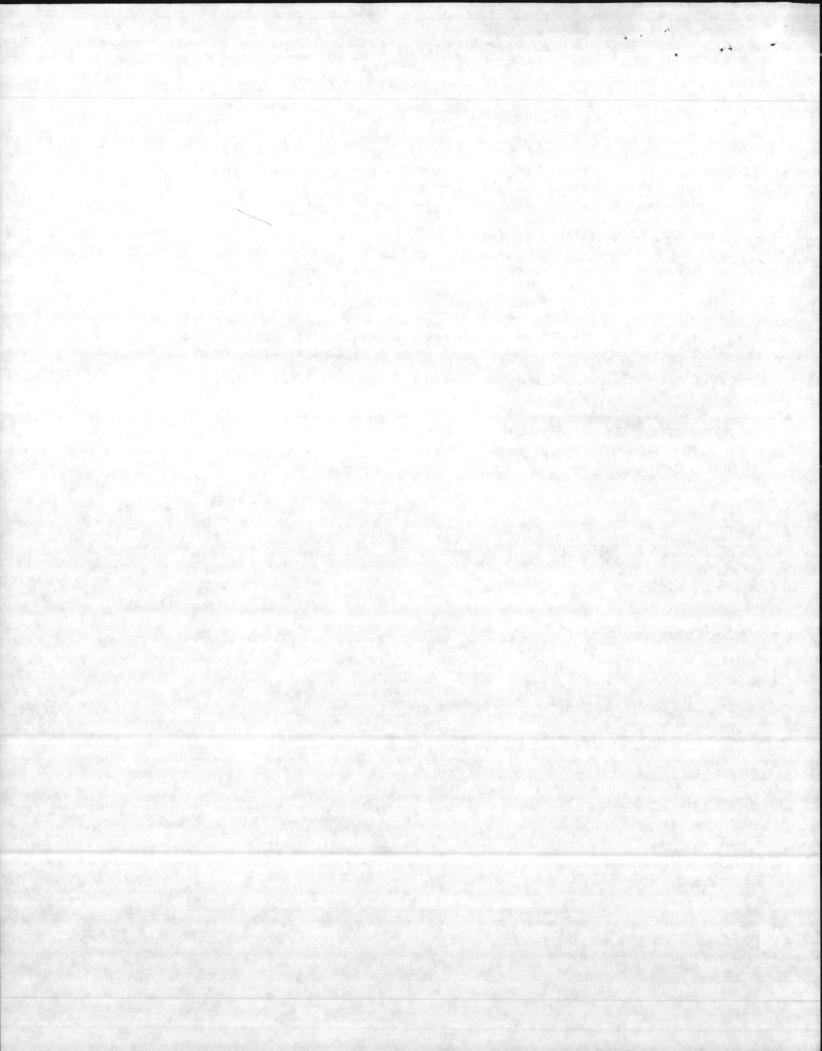
From: Base Maintenance Officer

To: Director, Natural Resources and Environmental Affairs

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By direction



Dan Dos Courtes a Copy Sent to L

MAIN/WRP/shk 11345.4 10 February 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, BB-207

1. The Courthouse Bay Wastewater Treatment Plant violated the parameters for per cent removal of BOD and SS for the month of January 1984, parameter being 85% removal. Removal affected for January was 81.9% BOD and 82.2% for SS.

BASE MAINTENANCE DIVISION Marine Corps Base Camp Lejeune, North Carolina 28542

2. Shock loads of unidentified chemicals from oil/water separators flooded the trickling filter killing large sections of the zoogleal mass. When this happens the plant cannot meet the requirement for 85% removal.

3. The newly constructed raw sewage basin will be completed within one week. When this is put into operation, it should allow sufficient detention time and eliminate shock loading.

W. R: PRICE

MAIN/DLS/shk 11345.4 10 February 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman ltr MAIN/WRP/shk 11345.4 of 10 February 1984

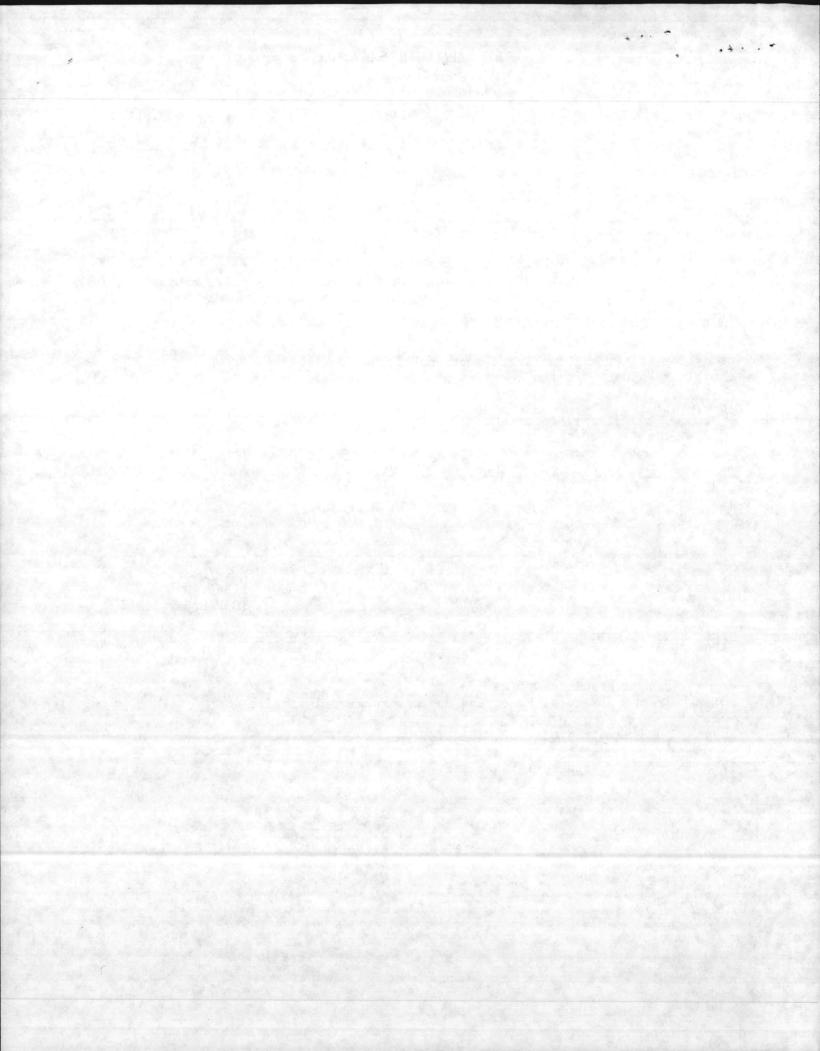
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To: Director, Natural Resources and Environmental Affairs

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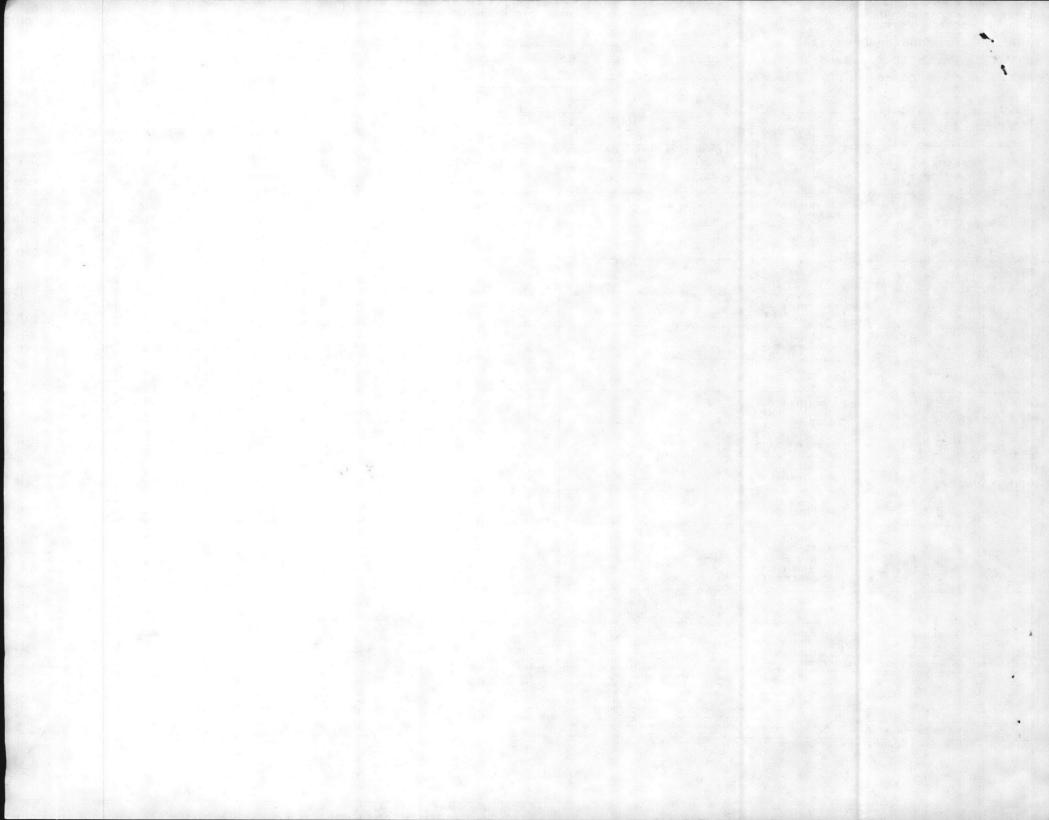
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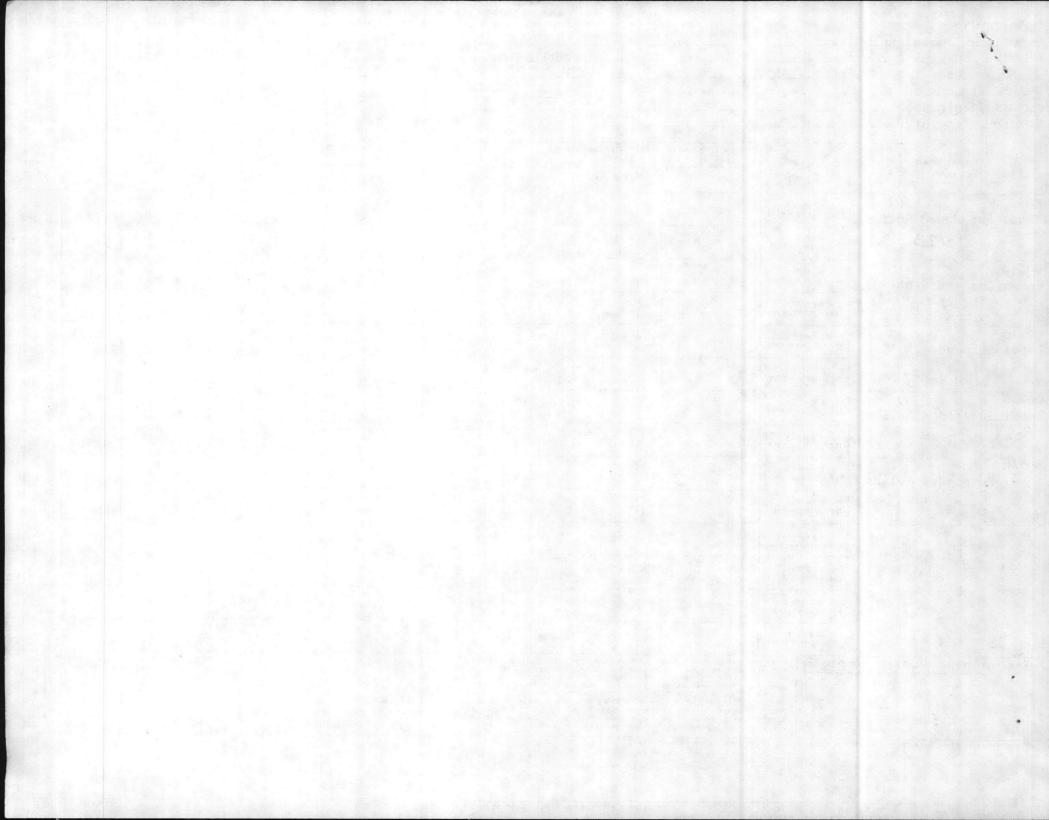
| PERMITTEE NAME/ADDRESS (Inclue<br>Facility Name /Location if different)<br>NAME Commanding_G |                                  |  | DISCHA   |  | ARGE ELIMINATION   |                                    | DES)                     |                |         | Form App<br>OMB No. |         |
|--|----------------------------------|--|--|--|--|------------------------------------|--------------------------|----------------|---------|---------------------|---------|
| ADDRESSMarine_Corps.   | N(                               |  | 014 Onslow   |  | Water Tre  | reatment Plan                      |                          | it.            |         |                     |         |
|  |                                  |  | - [  | MUN  | ITORING PERIOD   |                                    |                          |                |         |                     |         |
| FACILITYUIC_67001  |                                  |  | FROM S3  | 120  | 1 10 83 1  | MO DAY<br>12 31<br>(2x.29) (10.11) | 6<br>NOTE: Read instr    | uctions before | comp    | leting this         | Iorm.   |
| PARAMETER  |                                  | (1 Card Only) Q1<br>(46-53)  | UANTITY OR LOADING<br>(54-61)  |  | (4 Card Only).<br>(38-45)                                  | QUALITY OR C<br>(46-53)            | CONCENTRATION<br>(54-61) |                | NO.     | FREQUENCY           | SAMPLE  |
| (32-37)  | X                                | AVERAGE  | MAXIMUM  | UNITS  | MINIMUM  | AVERAGE                            | MAXIMUM                  | UNITS          | (62-63) | ANALYSIS<br>(64-68) | (69.70) |
| 00403<br>pH Laboratory   | SAMPLE                           | NT   |  |  |  | 8.4                                |                          |                | 00      | 01/07               | Grab    |
| W= 12/6/83   | PERMIT                           | NT   |  |  | 6.0  |                                    | 10.0                     |                | ·       | 01/07               | Grab    |
| 00403<br>pH Laboratory   | SAMPLE                           | NT   |  |  |  | 8.2                                |                          |                | 00      | 01/07               | Grab    |
| W= 12/13/83  | PERMIT                           | NT   |  |  | 6.0  |                                    | 10.0                     |                |         | 01/07               | Grab    |
| 00403<br>pH Laboratory   | SAMPLE                           | INT  |  |  |  | 8.2                                |                          |                | 00      | 01/07               | Grab    |
| W= /2/20/83<br>00403   | PERMIT                           | NT   |  |  | 6.0  |                                    | 10.0                     |                |         | 01/07               | Grab    |
| 00403<br>pH Laboratory   | SAMPLE                           | INT  |  | i anali  |  | 8.2                                |                          |                | 00      | 01/07               | Grab    |
| W= 1/3/84<br>00403   | PERMIT                           | NT   |  |  | 6.0  |                                    | 10.0                     |                |         | 01/07               | Gr'ab   |
| 00403<br>pH Laboratory   | SAMPLE                           | INT  |  | 1  |  | 8.4                                |                          |                | 00      | 01/07               | Grab    |
| w= 1/10/84   | PERMIT                           | NT   |  |  | 6.0  |                                    | 10.0                     |                |         | 01/07               | Grab    |
| 1/ 10 1  | SAMPLE                           | INT  |  |  |  | 8.2                                |                          |                |         |                     | .<br>   |
| 1/17/84  | PERMIT                           | NT   |  |  |  |                                    |                          |                |         |                     |         |
| 1/2/04   | SAMPLE                           |  |  | 2<br>  |  |                                    |                          |                |         |                     |         |
| 1/24/81  | PERMIT                           | NT   |  |  |  |                                    |                          |                |         |                     |         |
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| TYPED OR PRINTED   | 41                               | 3 USC § 1319. (Penalties<br>ad or maximum imprisonmen<br>5. (Reference all attachm.  | t of between 6 months and  | include fines up<br>5 years.)  |  | CER OR AUTHO                       |                          | ODE NUME       | BER     | YEAR N              | O DAY   |

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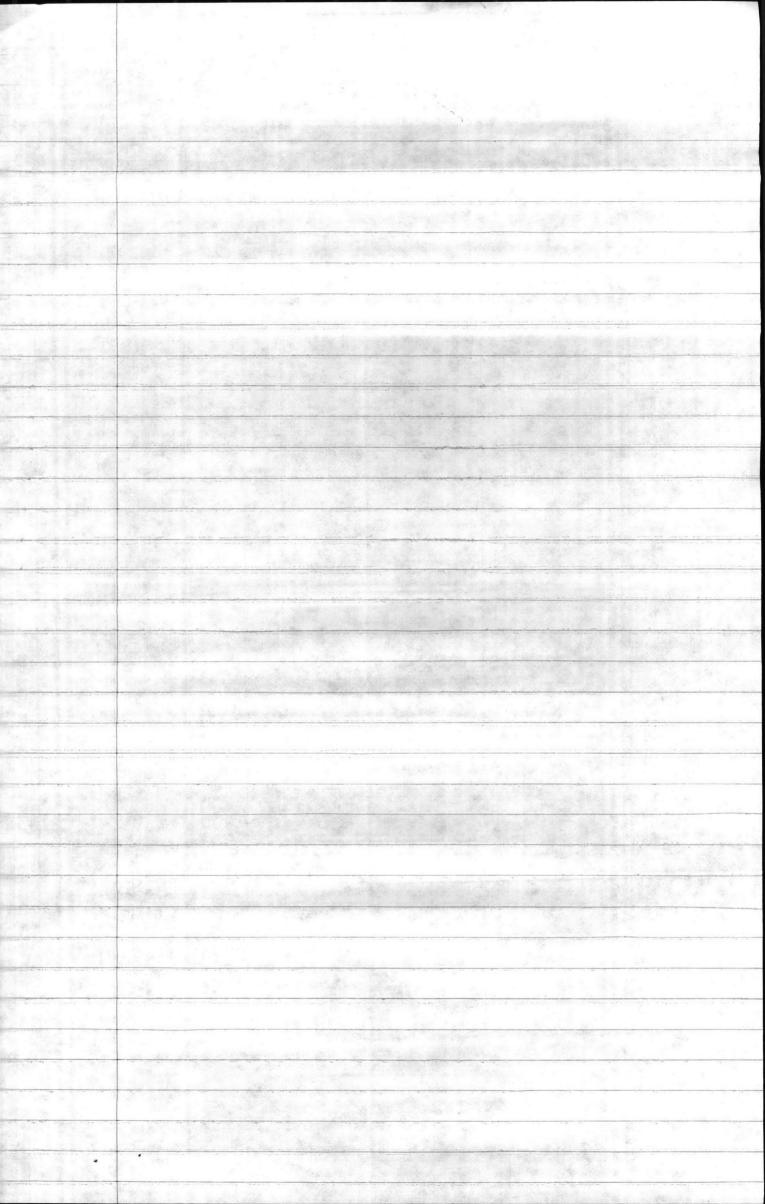


| PERMITTEE NAME/ADDRESS (Include<br>Facility Name/Location if different)<br><u>NAME</u> Commanding_Genesal<br><u>ADDRESS</u> Marine_Corps_Base<br>Camp_Lejeune, NC28542 |                                    |   |  |  |  |                         | DES) Form Approved<br>OMB No. 2000-00 |                |          |  |            |
|--|------------------------------------|---|--|--|--|-------------------------|---------------------------------------|----------------|----------|--|------------|
|  |                                    |   | NC   | DISC   | 014 Onslow Be  |                         | Water Tre                             | ent Plan       | int      |  |            |
| Camp_Lejeune,  | - 46                               |   |  | MONI   | TORING PERIOD  |                         |                                       | •              |          | <i>v</i> .                               |            |
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|  |                                    |   | (20-21)  | (22-24) (24-   | 25) (26-27)  | (28-29) (.1011)         | NOTE: Read instr                      | uctions before | comp     | leting this                              | lorm/      |
| PARAMETER  |                                    | (3 Card Only) QU<br>(46-53)   | ANTITY OR LOADIN<br>(54-61)  | IG .   | (4 Card Only)<br>(38-45)                             | QUALITY OR (<br>(46-53) | CONCENTRATION<br>(54-61)              | <u>.</u>       | NO.      | FREQUENCY<br>OF<br>ANALYSIS              | SAMPLE     |
| (32-37)  |                                    | AVERAGE   | MAXIMUM  | UNITS  | MINIMUM  | AVERAGE                 | MAXIMUM                               | UNITS          | (62-63)  | 1. | (69.70)    |
| 00530<br>Total Suspended Solids  | SAMPLE                             | r   |  |  |  | 1.5                     |                                       | mg/1           | 00       | 01/07                                    | 8 нс       |
| W= 12/7/83   | PERMIT                             |   |  |  |  | 30                      | 50                                    |                |          | 01/07                                    | Comp       |
| 00530<br>Total Suspended Solids  | SAMPLE                             | r .   |  |  |  | 6.7                     |                                       | mg/1           | 00       | 01/07                                    | 8 HC       |
| W= 12/13/83  | PERMIT                             |   |  |  |  | 30                      | 50                                    |                |          | 01/07                                    | Comp       |
| 00530<br>Total Suspended Solids  | SAMPLE                             | r .   |  |  | •  | 0,4                     |                                       | mg/1           | 00       | 01/07                                    | 8 HC.      |
| W= 12/20/83  | PERMIT                             |   |  | ·  |  | 30                      | 50                                    |                | <u> </u> | 01/07                                    | Comp       |
| 00530<br>Total Suspended Solids  | SAMPLE                             | r   |  |  |  | 8.4                     | 13                                    | mg/1           | 00       | 01/07                                    | 8 HC       |
| w= 1/3/84  | PERMIT                             | • 《月末通线   |  |  |  | 30                      | 50                                    |                |          | 01/07                                    | Comp       |
| 00530<br>Total Suspended Solids  | SAMPLE                             | r .   | ;  |  |  | 5:2                     |                                       | mg/1           | 00       | 01/07                                    | 8 HC       |
| W= 1/10/84   | PERMIT                             |   |  | /  |  | 30                      | 50                                    |                |          | 01/07                                    | Comp       |
| 1/17/84  | SAMPLE<br>MEASUREMEN               | т   |  |  |  |                         | -                                     |                |          |  |            |
| 1111101  | PERMIT                             |   |  |  |  | A Star                  |                                       |                |          |  |            |
| 1/24/84  | SAMPLE                             | T   |  | 1 B  |  |                         |                                       |                |          |  |            |
| . 1 105 97 0 1   | PERMIT                             | •   |  | 19   |  |                         |                                       |                |          |  |            |
| NAME/TITLE PRINCIPAL EXECUTIV  | AND<br>ON<br>OBT/<br>IS T<br>NIFIC | RTIFY UNDER PENALTY<br>AM FAMILIAR WITH THE<br>MY INQUIRY OF THOSE<br>UNING THE INFORMATIC<br>RUE, ACCURATE AND C<br>CANT PENALTIES FOR<br>POSSIBILITY OF FINE AI | INFORMATION SUBMIT<br>INDIVIDUALS IMMEDIAT<br>ON, I BELIEVE THE SI<br>OMPLETE, I AM AWARE<br>SUBMITTING FALSE IN | ED HEREIN: AN<br>TELY RESPONSI<br>UBMITTED INFO<br>THAT THERE<br>FORMATION, IN | D BASED<br>HE FOR<br>DRMATION<br>ARE SIG<br>HCLUDING |                         | IPAL EXECUTIVE                        | TELEPHON       | E        |  | . Т Е<br>: |
| TYPED OR PRINTED   | 33 U<br>and '                      | SC § 1319. (Penaltics un<br>pr maximum imprisonment d   | der these statutes may i<br>of between 6 months and 5  | nclude fines up  | to \$10,000  | CER OR AUTHO            | A A A A A A A A A A A A A A A A A A A | ODE NUMI       | BER      | YEAR                                     | O DAY      |

COMMENT AND EXPLA



VIOLATIONS 14 Dec PH 6.0-9.0 5.7 5D 30 50.4 50 SP 40 35 SD 40 15 14 DEC OrG 54 70,8 20 DEC SD 57 55 50 96.0 21 DEC 50 SD 63 55 57.0 29 DEC SD 62 50 SS 119.6 27 JAN FEB SD 42 SS 50 15 59 29 FEB O+G SD 63 5.7 29 FEB SD 63 PH 6090 PH 5.8 SD 64 6.0-9.0 233 SD 80 \$5 50 15 O+G SD 80 680 29 FEB 



DATE: 16 MARCH 1984

FROM: SUPVY CHEMIST, WQCL, ENVIRONMENTAL BRANCH

TO: SUPVY ECOLOGIST, ENVIRONMENTAL BEANCH

SUBJ : HADNOT POINT SEWAGE PLANT'S NPDES PERMIT VIOLATION

A. HADNOT POINT DID NOT MEET THE MINIMUM 85% REMOVAL FOR BIOCHEMICAL OXYGEN DEMAND IN FEBRUARY 1984. THE EFFLUENT SAMPLE FOR BOD'S TAKEN BEFORE THE CHLORINE CONTACT CHAMBER SINCE CHLORINE CAN EFFECT THE BOD READING. THEREFORE INSUFFICIENT CONTACT TIME THE IN THE BOD READING. THEREFORE INSUFFICIENT CONTACT TIME. THE BOD RESULTS.

2. UTILITIES EXPLANATION OF HADNOT BINT'S VIOLATION DID NOT MAKE SENSE TO THE. THEREFORE I CALLED MACK DAVIS AND INQUIRED ABOUT HADNOT BINT ON 14 MARCH 1984. DURING THE PHONE CONVERSATION IT WAS LEARNED THAT A SLUDGE PUTTRP, ONE OF TWO, HAD ALSO BEEN INOPERATIVE, IT WAS LEARNED THAT THE PUTTP STARTED MALFUNCTIONING OF AROUND 21 FEBRUARY, WHEN A TICKET WAS WEITTEN TO PULL THE PUTCP. IT WAS OUT UNTIL 6 MARCH 1984.

3. WITHOUT OUT BOTH RE ONE OF THE SLUDGE PUMPS THE SUDGE WAS RETURNED AT A 50% REDUCED RATE. THE THE DATES THE HADNOT POINT PLANT STARTED EXPERIENCING EN AN ELEVATED BOD EFFLUENT ON 19 FEBRUARY 1984. THIS CORRESPONDS TO THE DATE PUMP MALFUNCTION SO PERHAPS THE DOWN SLUDGE PUMP 16 A BETTER EXPLANATION THAN THE CONTRACTOR INTERFERENCE . WITH THE CONSTRUCTION OF THE NEW CONTRACT CHAMBER,

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MAIN/WRP/shk 11345.4 10 February 1984

From: Utilities Systems General Foreman To: Director, Utilities Branch

Subj: NPDES Permit Violation, BB-207

1. The Courthouse Bay Wastewater Treatment Plant violated the parameters for per cent removal of BOD and SS for the month of January 1984, parameter being 85% removal. Removal affected for January was 81.9% BOD and 82.2% for SS.

2. Shock loads of unidentified chemicals from oil/water separators flooded the trickling filter killing large sections of the zoogleal mass. When this happens the plant cannot meet the requirement for 85% memoval.

3. The newly constructed raw sewage basin will be completed within one week. When this is put into operation, it should allow sufficient detention time and eliminate shock loading.

## W. R. PRICE

MAIN/DLS/shk 11345.4 10 February 1984

FIRST ENDORSEMENT on Utilities Systems General Foreman 1tr MAIN/WRP/shk 11345.4 of 10 February 1984

From: Base Maintenance Officer To: Director, Natural Resources and Environmental Affairs

Subj: NPDES Permit Violation, BB-207

1. Forwarded for appropriate action.

D. L. SOUTHERLAND By direction

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3: Unort loose of unidentified from als "real off, segmented a flooded the structure filter will: clarge control of the information when total hereau the clart cause dest the requirement for \$5 tabutation.

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2.4 The newly conservation rate news of freed will be devised by an interest when coils is put free operation. It should allow spiriture issuits that and slistence insation.

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OPNAV 5216/144A (Rev. 8-81) S/N 0107-LF-052-2320

Recommend informal descussion whe Colchilley. Bob alexander shall be Working with PWU/Utilities to ensure Proposed upgrade addresses this continuin Protem. DDS

DATE: 9 February 1984

FROM: Supervisory Chemist, Water Quality Control Laby Envir Br, NREAD

TO: Wastewater Foreman, Water & Wastewater, Util Br, BMaintD

SUBJ: Courthouse Bay Wastewater Treatment Plant

ENCL: (1) Courthouse Bay Wastewater Treatment Plant Corrected Monthly Report for January 1984

1. After reviewing the sample labels for January 1984, it was kearned that sampling errors occurred on 31 January 1984 at Hadnot Point and Courthouse Bay. The #2 and #3 at Hadnot Point and #1, #2 and #3 at Courthouse Bay composite samples for 31 January 1984 are invalid, therefore the BOD and Suspended Solids results for 31 January 1984 at Hadnot Point and Courthouse Bay are to be discarded. This changes the NPDES violations at Courthouse Bay. Below are the corrected NPDES violations:

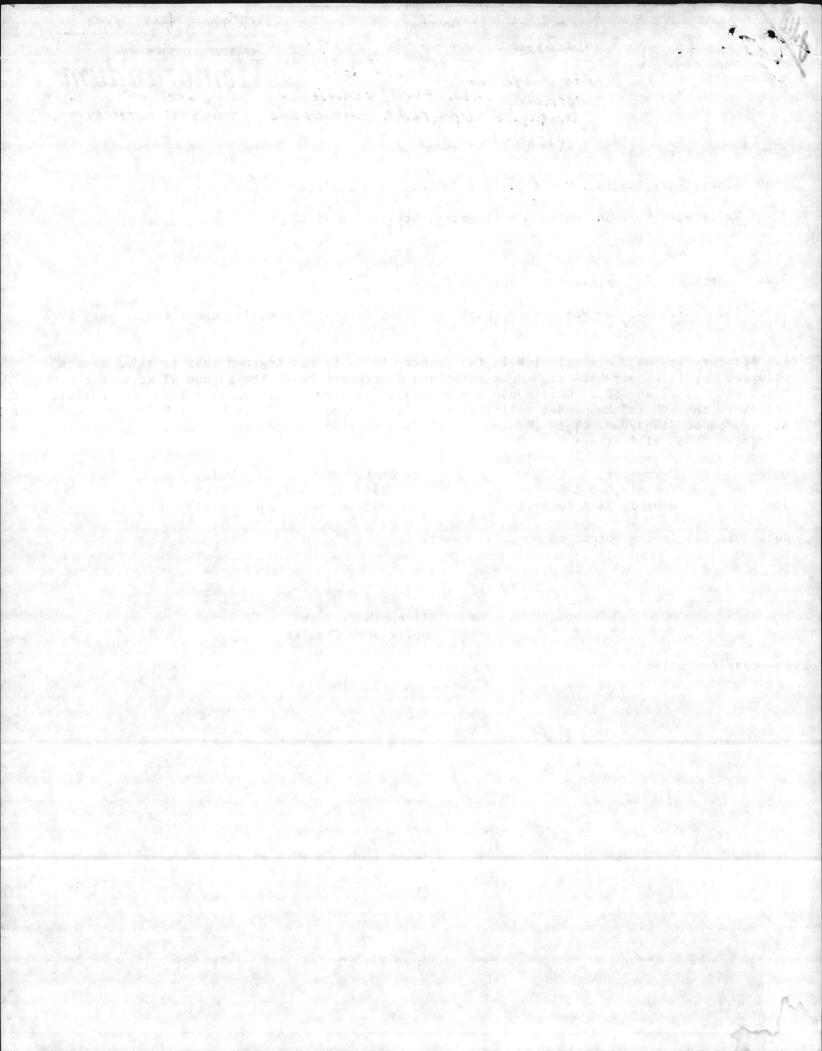
| Date | Parameter             | Limit | Value |
|------|-----------------------|-------|-------|
| Jan  | Monthly BOD % Removal | 85%   | 81.9  |
| Jan  | Monthly SS % Removal  | 85%   | 82.2  |

Enclosure (1) is the corrected monthly report.

lizabeth A. Betz

Supervisory Chemist

cc-Supvy Ecologist

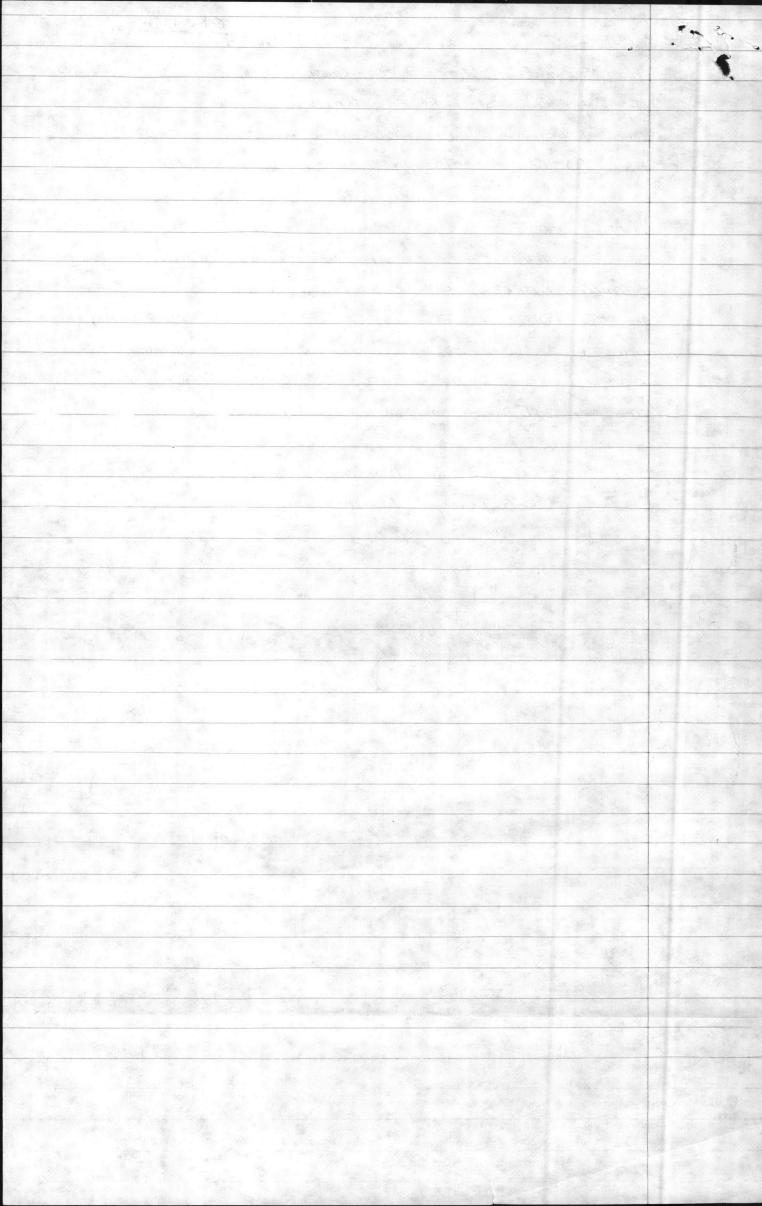


DATE: @ FEBRUARY 1984 FROM: SUPVY CHEM, WATER QUALITY CONTROL LAB, ENVIR BR, NREAD TO: SUPVY ECOLOCIST, ENVIR BR, NREAD SUBJ: COVETHOUSE BAY WASTEWATER TREATMENT PLANT ENCL: (1) CHBWWTP MONTHLY REPORT FOR JANUARY 1984.

OK DDS

1. AFTER CHECKING THE SAMPLE LABELS FOR JANUARY 1984, IT WAS DISCOVERED THAT THE 31 JANUARY 1984 CHB COMPOSITE SAMPLES WERE TAKEN INCORRECTLY, THEREFORE THE RESULTS OF THE BOD + 55 RESULTS FOR 31 JANUARY 1984 @ CHB HAVE TO BE DISCARDED. DISCARDING THE 31 JANUARY 1984 SAMPLE CHANGES THE VIOLATIONS @ CHB. BELOW ARE THE NEW NPDES VIOLATIONS:

BOD % REMOVAL MONTHLY AVERAGE 81.9 55% REMOVAL MONTHLY AVERAGE 82.2.



## MONTHLY REPORT OF WASTE TREATMENT PLANT WATER QUALITY MCBCL 11345/8 (REV. 6-83)

| ANT  | COVETHO                   |      | RA            | u l            |                  |                    |                    |  | N                | MONTH TANANA R     | DA 1984              |                   |
|------|---------------------------|------|---------------|----------------|------------------|--------------------|--------------------|--|------------------|--------------------|----------------------|-------------------|
|      | PLANT                     | DOSE |               |                | -                |                    | 2                  | 01   |                  |                    | COLIF                | OPM               |
|      | FLOW PH CHLORINE RESIDUAL |      |               | 5              | 5 DAY 20° C. BOD |                    |                    | JSPENDED SO  | LIDS             | COLI               | ORM                  |                   |
| DATE | TOTAL DAILY<br>GPD        |      | PLANT<br>mg/1 | LAB<br>mg/1    | RAW<br>mg/1      | EFFLUENT<br>mg/1   | PERCENT<br>REMOVAL | RAW<br>mg/1  | EFFLUENT<br>mg/1 | PERCENT<br>REMOVAL | NUMBER PER<br>100 ml | GEOMETRIC<br>MEAN |
| 1    | 311200                    | 6.9  | 4.0           |                |                  |                    |                    |  |                  |                    |                      |                   |
| 2    | 331 250                   | 6.8  | 4.1           |                | And States       |                    |                    |  |                  |                    |                      |                   |
| 3    | 341450                    | 6.9  | 4.2           | 100            | 50               | 5                  | 88                 | 43   | 3                | 93                 | 26                   |                   |
| 4    | 342100                    | 6.8  | 4.5           | et into        |                  |                    |                    |  |                  |                    |                      |                   |
| 5    | 359750                    | 6.8  | 4.4           |                | 310              | 21                 | 93                 | 38   | 5                | 87                 | 10                   |                   |
| 6    | 323850                    | 6.7  | 4.3           |                |                  |                    |                    |  | Sec. 1           |                    |                      |                   |
| 7    | 303950                    | 7.0  | 4.2           |                |                  |                    |                    |  | and the second   |                    |                      |                   |
| 8    | 306750                    | 1.9  | 4.3           |                |                  |                    |                    |  |                  |                    |                      |                   |
| 9    | 4040780                   | 6.8  | 4.2           |                |                  |                    |                    |  |                  |                    |                      |                   |
| 10   | 406270                    | 6.8  | 4.4           |                | 117              | 18                 | 85                 | 44   | 7                | 85                 | 8                    |                   |
| 11   | 355330                    | 67   | 5.8           |                |                  |                    |                    |  |                  |                    |                      |                   |
| 12   | 357630                    | 6.6  | 5.7           | tos is i       | 110              | 11                 | 90                 | 44   | 10               | (77)               | 0                    |                   |
| 13   | 340550                    | 10,6 | 4.9           |                |                  |                    |                    |  |                  |                    |                      |                   |
| 14   | 299100                    | 6.6  | 4.1           |                |                  | distant in the     |                    |  |                  |                    |                      |                   |
| 15   | 242.510                   | 68   | 4.2           | di Crecci      |                  | and the set        | a sugar            |  |                  |                    |                      |                   |
| 16   | 350140                    | 6.8  | 4.3           |                | N                |                    | -                  | the second s |                  |                    |                      |                   |
| 17   | 329750                    | 6.6  | 4.0           |                | 75               | 13                 | (83)               | 112  | 15               | (87)               | 220                  |                   |
| 18   | 324950                    | 6.8  | 4.1           | 2              |                  | (                  |                    |  |                  |                    |                      |                   |
| 19   | 391800                    | 69   | 3.5           |                | 165              | (72)               | (56)               | 130  | 28               | (78)               | 0                    |                   |
| 20   | 293500                    | 68   | 4.3           |                |                  | ~                  |                    |  |                  |                    |                      |                   |
| 21   | 327650                    | 6.7  | 4.7           | and the second |                  |                    | A second second    |  |                  |                    |                      |                   |
| 22   | 342350                    | 6.5  | 4.4           |                |                  | A CONTRACTOR OF ST |                    | Post March 199   |                  |                    |                      |                   |
| 23   | 326250                    | 6.7  | 5.3           |                |                  | Carl and the       |                    |  |                  |                    |                      |                   |
| 24   | 36/350                    | 6.8  | 4.7           |                | 64               | 16                 | (75)               | 103  | 21               | (82)               | 12                   |                   |
| 25   | 348500                    | 6.8  | 4.5           |                |                  |                    |                    |  |                  |                    |                      |                   |
| 26   | 358500                    | 6.8  | 3.9           |                | 264              | 50                 | 81                 | 69   | 16               | (77)               | C)                   |                   |
| 27   | 378/50                    | 7.0  | 5.1           | 1              |                  | -                  |                    |  |                  |                    |                      |                   |
| 28   | 330450                    | 6.8  | 4.5           |                |                  |                    |                    |  |                  |                    |                      |                   |
| 29   | 300400                    | 7.0  | 4.6           |                |                  |                    |                    |  |                  |                    |                      |                   |
| 30   | 332850                    | NR   | 53            |                |                  |                    |                    |  |                  |                    |                      |                   |
| 31   | 345980                    | NR   | 5.5           |                | - SAr            | NPLE               | ER                 | ROR  |                  |                    | 0                    |                   |
| Tot. | 10477380                  |      | 140           |                | 1155             | 206                | 651/81.4           |  | 105              | 666/83.2           | >                    |                   |
| Ave. | 337880                    |      | 4.5           |                | 144              | 26                 | 81.9               | 73   | 13               | 82.2               | 5.61                 |                   |

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