

FILE FOLDER

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6283 NPDES RAW DATA

(TEMPORARY) SECNAVINST 5212.5B
PART II, CHAP 6, PAR 6000(1)(c)
2 YRS

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Analytical and Consulting Chemists

DATE RECEIVED 12-15-87
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87W8670

1316 South Fifth Street
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PAGE 1 OF 1

MARINE CORPS BASE
NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. # M-67001-87-M0217

ATTENTION: ELIZABETH BETZ

SAMPLE DESCRIPTION: 5 WASTEWATER SAMPLES

1. CAMP GEIGER 12-8-87
2. COURTHOUSE BAY 12-8-87
3. HADNOT POINT 12-8-87
4. RIFLE RANGE 12-8-87
5. TARAWA TERRACE 12-8-87

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Nitrite & Nitrate , as NO ₃ +NO ₂ -N , PPM	<.02	7.09	4.40	4.15	10.39
Kjeldahl Nitrogen , as NH ₃ -N , PPM	23.92	3.24	12.24	2.95	6.89
Total Nitrogen , as By Sum , PPM	23.92	10.33	16.64	7.10	17.28


ROGER C. OXFORD , CHEMIST

NOV 25 1987

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87W8435

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PAGE 1 OF 1

MARINE CORPS BASE
NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. # M-67001-87-M0217

ATTENTION: BETSY BETTS

SAMPLE DESCRIPTION: 5 WASTEWATER SAMPLES

1. CAMP GEIGER 11-12-87
2. HADNOT POINT 11-12-87
3. ONSLOW BEACH 11-12-87
4. RIFLE RANGE 11-18-87
5. TARAUA TERRACE 11-12-87

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	21.53	9.04	2.01	1.44	7.32
Nitrite & Nitrate , as NO ₃ +NO ₂ -N , PPM	.65	5.86	2.99	3.27	10.42
Total Nitrogen , as By Sum , PPM	22.18	14.90	5.00	4.71	17.74
Oil & Grease , PPM	6	2	5	5	1
Ammonia Nitrogen , as NH ₃ -N , PPM	19.95	7.03	0.43	0.29	6.89

Roger Oxford

ROGER C. OXFORD , CHEMIST

NOV 25 1987

NOV 28 1987

Analitical and Consulting Chemists

Washington, D.C. 20001
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MARINE CORPS BASE
NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. # M-67001-87-M0217

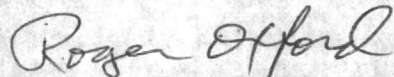
ATTENTION: ELIZABETH BETTS

SAMPLE DESCRIPTION: 5 WASTEWATER SAMPLES 10-13-87

1. CAMP GEIGER 10-13-87 B
2. CAMP JOHNSON 10-16-87 B
3. COURTHOUSE BAY 10-13-87 B
4. HADNOT POINT 10-13-87 B
5. TARAWA TERRACE 10-13-87 B

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	13.00	9.54	1.23	5.43	4.94
Nitrite & Nitrate , as NO ₃ +NO ₂ -N , PPM	1.84	5.5	6.38	8.62	8.85
Total Nitrogen , as By Sum , PPM	14.84	15.04	7.61	14.05	13.79
Oil & Grease , PPM	9	7	5	2	7
Ammonia Nitrogen , as NH ₃ -N , PPM	11.35	7.07	<.08	2.63	3.04



ROGER C. OXFORD , CHEMIST

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 10-28-87

PAGE 1 OF 1

10-28-87

ATENTION: MILWAUKEE
 CAMP DENVER
 10-28-87

SAMPLE INFORMATION

1. CAMP GRIGG 10-13-87
2. CAMP JOHNSON 10-13-87
3. CAMP ROUSEWAY 10-13-87
4. CAMP ROUSEWAY 10-13-87
5. CAMP ROUSEWAY 10-13-87

RESULTS

	1	2	3	4	5
Ammonia Nitrogen, as N, %	11.35	7.07	4.08	2.07	3.04
Oil & Grease, %	9.7	7	2	3	7
Total Nitrogen, as N, %	14.81	13.04	7.61	4.15	13.19
Ammonia Nitrogen, as N, ppm	1184	707	408	207	304
Oil & Grease, ppm	970	700	200	300	700
Total Nitrogen, as N, ppm	1481	1304	761	415	1319
Ammonia Nitrogen, as N, %	13.00	9.24	5.23	2.43	4.94
Oil & Grease, %	11.84	7.07	4.08	2.07	3.04
Total Nitrogen, as N, %	17.00	13.00	9.24	5.23	11.23
Ammonia Nitrogen, as N, %	13.00	9.24	5.23	2.43	4.94
Oil & Grease, %	11.84	7.07	4.08	2.07	3.04
Total Nitrogen, as N, %	17.00	13.00	9.24	5.23	11.23

ROGER O. OXFORD, CHEMIST

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MARINE CORPS BASE
NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. # M-67001-87-M0217

ATTENTION: ELIZABETH BETTS

SAMPLE DESCRIPTION: 5 WASTEWATER SAMPLES

1. CAMP GEIGER 9-10-87
2. CAMP JOHNSON 9-11-87
3. HADNOT POINT 9-10-87
4. ONSLOW BEACH 9-10-87
5. TARAWA TERRACE 9-10-87

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	10.08	6.79	5.88	0.98	3.64
Nitrite & Nitrate , as NO ₃ +NO ₂ -N , PPM	.87	2.96	13.51	3.71	11.10
Total Nitrogen , as By Sum , PPM	10.95	9.75	19.39	4.69	14.74
Oil & Grease , PPM	3	3	11	1	4
Ammonia Nitrogen , as NH ₃ -N , PPM	8.82	3.22	3.64	0.28	1.54


ROGER C. OXFORD , CHEMIST

Analysis and Chemistry

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87W-103

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87W-103

Quantitative Analysis, Inc.

PAGE 1 OF 1

E.O. 12812-2

MARINE CORPS BASE
Camp Lejeune, NC 28542

ATTENTION: ANALYSTS UNIT

LABORATORY OF WASHINGTON STATE

LABORATORY OF WASHINGTON STATE
1000 4th Ave, SE
Tacoma, WA 98402
TEL: (206) 462-1000

RESULTS

CONCENTRATION	1	2	3	4	5
Ammonia Nitrogen, as N, ppm	0.82	3.22	0.04	0.08	1.84
Chloride, ppm	3	14	1	1	4
Total Nitrogen, as N, ppm	10.95	0.75	12.32	2.09	14.74
Nitrate Nitrogen, as N, ppm	8.7	2.96	10.51	3.71	17.10
Ammonia Nitrogen, as N, ppm	10.08	0.79	2.86	0.93	3.84

ROBERT G. OXLEY, CLU

Oxford Laboratories, Inc.

Analytical and Consulting Chemists

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87W7519

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Natural Resources & Envir.
Affairs Division
Facilities
Marine Corps Base
Camp LeJeune, N.C. 28542

P.O. M-67001-86-MO286

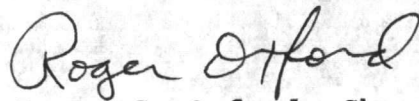
Attention: Elizabeth Betts

Sample Description: 5 Wastewater Samples

1. Camp Geiger 8/12/87 B
2. Hadnot Point 8/12/87 B
3. Onslow Beach 8/13/87 B
4. Rifle Range 8/12/87 B
5. Tarawa Terrace 8/12/87 B

RESULTS

	<u>1.</u>	<u>2.</u>	<u>3.</u>	<u>4.</u>	<u>5.</u>
Total Kjeldahl Nitrogen as NH ₃ -N PPM	9.94	7.42	4.62	0.98	5.46
Nitrite Nitrate, NO ₃ -N+NO ₂ -N, PPM	.69	5.28	1.93	4.28	10.89
Total Nitrogen as N, PPM	10.63	12.70	6.55	5.26	16.35
Oil & Grease, PPM	19	18	17	16	21
Ammonia Nitrogen as NH ₃ -N, PPM	8.40	4.48	2.1	<.07	2.66


Roger C. Oxford, Chemist

RCO/lo

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Analytical and Consulting Chemists

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87W7271

PAGE 1 OF 1

MARINE CORPS BASE
NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. # M-67001-86-M0286

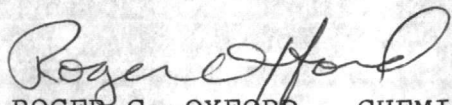
ATTENTION: BETSY BETTS

SAMPLE DESCRIPTION: 5 WASTEWATER SAMPLES

1. CAMP GEIGER 7-16-87
2. CAMP JOHNSON 7-17-87
3. HADNOT POINT 7-16-87
4. ONSLOW BEACH 7-16-87
5. TARAWA TERRACE 7-16-87

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	16.11	9.11	7.37	2.18	3.96
Nitrite & Nitrate , as NO ₃ +NO ₂ -N , PPM	0.23	3.64	4.38	4.19	10.13
Total Nitrogen , as NO ₃ +TKN , PPM	16.34	12.75	11.75	6.37	14.09
Oil & Grease , PPM	7	19	17	31	2
Ammonia Nitrogen , as NH ₃ -N , PPM	12.08	5.94	5.19	.34	1.37


ROGER C. OXFORD , CHEMIST

ASSISTANT AND CONSULTING CHEMISTS
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PAGE 1 OF 1

LABORATORY NO. 7-24-87-001-86-00283

ATTENTION: BETTY BRITTS

LABORATORY SECTION: WASTEWATER SAMPLING

- 1. CAMPUS CANALS 7-16-87
- 2. CAMPUS CANALS 7-17-87
- 3. HADON POINT 7-16-87
- 4. ONSLOW BEACH 7-16-87
- 5. TARA W. PARKS 7-16-87

RESULTS

Sample No.	Location	Parameter	Result
1	Campus Canals	Ammonia Nitrogen, as NH ₃ -N, ppm	15.11
1	Campus Canals	Nitrite Nitrogen, as NO ₂ -N, ppm	0.23
1	Campus Canals	Nitrate Nitrogen, as NO ₃ -N, ppm	16.34
1	Campus Canals	Total Nitrogen, as N, ppm	17.32
1	Campus Canals	Total Phosphorus, as P, ppm	0.19
1	Campus Canals	Ammonia Nitrogen, as NH ₃ -N, ppm	15.04

[Signature]
ROGER C. OXFORD, CHEMIST

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87W7039

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NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. # M-67001-86-M0286

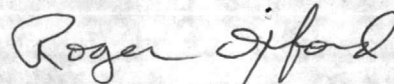
ATTENTION: BETSY BETTS

SAMPLE DESCRIPTION: 5 WASTEWATER SAMPLES

1. CAMP GEIGER 6-17-87-B ← 16TH
2. COURTHOUSE BAY 6-17-87-B ← 16TH
3. HADNOT POINT 6-17-87-B ← 16TH
4. RIFLE RANGE 6-17-87-B
5. TARAWA TERRACE 6-17-87-B ← 16TH

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	18.38	2.69	7.92	1.56	7.07
Nitrite & Nitrate , as NO ₃ +NO ₂ -N , PPM	0.05	5.14	3.91	4.38	7.34
Total Nitrogen , as NO ₃ +TKN , PPM	18.43	7.83	11.83	5.94	14.41
Oil & Grease , PPM	14	10	17	8	10
Ammonia Nitrogen , as NH ₃ -N , PPM	16.26	0.71	5.37	0.42	4.38



ROGER C. OXFORD , CHEMIST

JUL - 1 REC'D

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87W6892

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NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. # M-67001-86-M0286

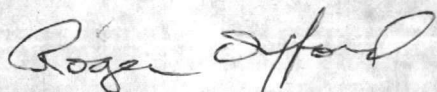
ATTENTION: BETZY BETZ

SAMPLE DESCRIPTION: WASTEWATER

1. CAMP GEIGER 5-29-87B
2. HADNOT POINT 5-29-87B
3. ONSLOW BEACH 5-29-87B
4. TARAWA TERRACE 5-29-87B

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	2.42	9.24	17.48	4.55
Nitrite & Nitrate , as NO ₃ +NO ₂ -N , PPM	9.07	6.97	0.44	4.67
Total Nitrogen , as N , PPM	11.49	16.21	17.92	9.22
Oil & Grease , PPM	3	3	2	<1
Nitrate , as NO ₃ -N , PPM	0.57	5.68	15.20	2.70



ROGER C. OXFORD , CHEMIST

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1410 South First Street
Birmingham, Ala. 35203
(205) 383-8800

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C. O. FORD, JR.
10/18/87

10-18-87-013

LABORATORY REPORT

ATTENTION: BIRMINGHAM

TEST NO. 10-18-87-013

TEST NAME: ...

TEST METHOD: ...

TEST RESULTS: ...

RESULTS

ML

... 0.05 ...

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NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. # M-67001 86 M0286

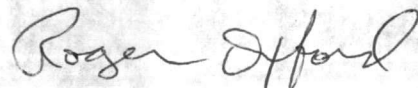
ATTENTION: ELIZABETH BETTS

SAMPLE DESCRIPTION: WASTE WATER

1. CAMP GEIGER 4-30-87
2. HADNOT POINT 4-30-87
3. RIFLE RANGE 4-30-87
4. TARAWA TERRACE 4-30-87

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	20.25	9.38	1.28	10.37
Nitrite & Nitrate , as NO ₃ +NO ₂ -N , PPM	.06	5.19	4.06	6.32
Total Nitrogen , as N , PPM	20.31	14.57	5.34	16.69
Oil & Grease , PPM	31	18	17	23
Nitrate Nitrogen , as NO ₃ -N , PPM	17.19	7.25	0.14	8.24



ROGER C. OXFORD , CHEMIST

Oxford Laboratories, Inc.

Analytical and Consulting Chemists

1816 South Main Street

Wilmington, N.C. 28401

(919) 733-0193

Phone: (919) 733-0193

Telex: 238-878

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AMERICAN LABORATORY
3000 W. 10th St.
Tulsa, Okla. 74107
(918) 438-0000

LABORATORY

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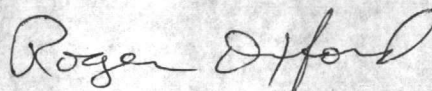
ATTENTION: Betsy Betz

SAMPLE DESCRIPTION: 3 Wastewater Samples

1. Hadnot Point 3/30/87
2. Tarawa Terrace 3/30/87
3. Camp Geiger 3/30/87

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>
Total Kjeldahl Nitrogen as NH ₃ -N, PPM	5.20	8.86	17.62
Nitrite and Nitrate as NO ₃ +NO ₂ -N, PPM	4.78	6.13	.64
Total Nitrogen as N, PPM	9.98	14.99	18.26



ROGER C. OXFORD , CHEMIST

O'Brien Laboratories, Inc.

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Wilmington, N.C. 28401
(910) 788-1777

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878234

PAGE 1 OF 1

MARLBOROUGH

and the following

ATTENTION: Betty B...

ANALYTICAL DESCRIPTION: 3.00 gm. of

1.00 gm. of ...
1.00 gm. of ...
1.00 gm. of ...

RESULTS

Item	Concentration	Unit
Total Alkaline Nitrogen	3.20	mg/g
Nitric and Nitrous	4.75	mg/g
Total Nitrogen	8.40	mg/g

ROGER O. DIXON, CHEMIST

Oxford Laboratories, Inc.

Analytical and Consulting Chemists

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87W6082

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MARINE CORPS BASE
NREAD-Facilities
Camp Lejeune , N.C. 28542

P.O. #


ATTENTION: Elizabeth Betts

SAMPLE DESCRIPTION: 4 Wastewater Samples

- 1. #1 H.P.
- 2. #2 T.T.
- 3. #3 C.G.
- 4. #4 O.B.

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Total Kjeldahl Nitrogen as N, PPM	11.06	10.46	14.66	1.68
Nitrate as NO3+NO2-N, PPM	.43	.43	.67	.07
Total Nitrogen as N, PPM	11.49	10.89	15.33	1.75


ROGER C. OXFORD , CHEMIST

1810 South ...
101st ...

PAGE 1 OF 1

MARINE CORP ...
CAMP ...

SAMPLE DESCRIPTION: A wastewater sample

LA 11119
...

RESULTS

1	2	3	4
11.00	11.00	11.00	11.00
11.43	11.43	11.43	11.43
11.43	11.43	11.43	11.43

JOHN A. OXFORD, CHEMIST

Oxford Laboratories, Inc.

Analytical and Consulting Chemists

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PAGE 1 OF 2

NAT. RESOURCES & ENVIR. AFFAIRS DIV.
BLDG. 1103
CAMP LEJEUNE, N.C. 28542

P.O. # M-67001 86M0286

ATTENTION: Supervisory Chemist

SAMPLE DESCRIPTION: Wastewater

1. Hadnot Point 9/9/86 24 hr.
2. Rifle Range 9/9/86 8 hr.
3. Onslow Beach 9/9/86 8 hr.
4. Camp Johnson 9/9/86 8 hr.
5. Tarawa Terrace 9/9/86 24 hr.
6. Courthouse Bay 9/9/86 8 hr.

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Kjeldahl Nitrogen, as NH ₃ -N, PPM	5.28	0.71	0.86	0.95	9.43	1.00
Nitrate Nitrogen, as NO ₃ -N, PPM	8.59	4.16	5.11	7.04	10.09	5.78
Nitrite Nitrogen, as NO ₂ -N, PPM	.09	<.01	<.01	.01	.07	<.01
Total Nitrogen, as N, PPM	13.96	4.87	5.97	8.00	19.59	6.78

Asked Kenny Kellum
about these results
on 11-5-86.
He said they looked
within normal range.
Tom.

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DATE REPORTED 3-11-88
3-11-88
3-11-88

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DATE REPORTED 3-11-88
3-11-88
3-11-88

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3-11-88
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Analytical and Consulting Chemists

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(919) 763-9793

PAGE 1 OF 2

NAT. RESOURCES & ENVIR. AFFAIRS DIV.
BLDG. 1103
CAMP LEJEUNE , N.C. 28542

P.O. # M-67001 86M0286

ATTENTION: Supervisory Chemist

SAMPLE DESCRIPTION: Wastewater

1. Hadnot Point 9/9/86 24 hr.
2. Rifle Range 9/9/86 8 hr.
3. Onslow Beach 9/9/86 8 hr.
4. Camp Johnson 9/9/86 8 hr.
5. Tarawa Terrace 9/9/86 24 hr.
6. Courthouse Bay 9/9/86 8 hr.

RESULTS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	5.28	0.71	0.86	0.95	9.43	1.00
Nitrate Nitrogen , as NO ₃ -N , PPM	8.59	4.16	5.11	7.04	10.09	5.78
Nitrite Nitrogen , as NO ₂ -N , PPM	.09	<.01	<.01	.01	.07	<.01
Total Nitrogen , as N , PPM	13.96	4.87	5.97	8.00	19.59	6.78

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NAT. RESOURCES & ENVIR. AFFAIRS DIV.
BLDG. 1103
CAMP LEJEUNE , N.C. 28542

P.O. # M-67001 86M0286

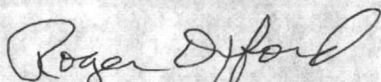
ATTENTION: Supervisory Chemist

SAMPLE DESCRIPTION: Wastewater

7. Camp Geiger 9/9/86 24 hr.

RESULTS

	<u>7</u>
Kjeldahl Nitrogen , as NH ₃ -N , PPM	6.19
Nitrate Nitrogen , as NO ₃ -N , PPM	5.87
Nitrite Nitrogen , as NO ₂ -N , PPM	0.18
Total Nitrogen , as N , PPM	12.24


ROGER C. OXFORD , CHEMIST

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LABORATORY
WASHINGTON, D.C.
20535


NAT. LABORER & JAVIER. STRIKE DIV.
Bldg. 1103
Camp Detention, W.C. 10012
ATtn: 10012, Box 10012, Cleveland

JAMES J. RYAN, was arrested

at Camp Detention, W.C. 10012

RESULTS

1. Nitrogen, as N, 1.24
2. Nitrogen, as N, 0.18
3. Nitrogen, as N, 5.87
4. Nitrogen, as N, 0.19


ROGER C. OXFORD, Chief