

6241/2  
NREAD  
16 Nov 87

From: Commanding General, Marine Corps Base, Camp Lejeune  
To: Defense Reutilization and Marketing Officer, Defense  
Logistics Agency, Lejeune, Camp Lejeune, NC 28542-5001

Subj: WASTE OIL STORAGE TANKS; AS-419, STT-64 and STT-65;  
DISPOSAL OF

Ref: (a) BO 6240.5  
(b) BMO ltr 6280 MAIN of 6 Nov 87

Encl: (1) DD Form 1348-1, Contents of Tank STT-64  
(2) DD Form 1348-1, Contents of Tank STT-65  
(3) DD Form 1348-1, Contents of Tank AS-419  
(4) JTC Environmental Consultants, Inc. Rept. No. 87-441  
(5) JTC Environmental Consultants, Inc. Rept. No. 87-444

1. In accordance with reference (a), enclosures (1) through (3) are forwarded for your action. As requested in reference (b), NREAD has signed enclosures (1) through (3). Enclosure (4) contains the Total Organic Halogen (TOX), Flashpoint and Metals analysis of the contents in STT-64 and STT-65 as of 15 Sep 87, which showed the tanks to contain a hazardous waste. Base Maintenance has added oil to STT-64 and STT-65 since 15 Sep 87, however, the additional oil can not change the classification from hazardous waste. Enclosure (5) contains the TOX and Volatile Organic Chemical (VOC) analysis of AS-419 (Sample ID No 87-79 and 87-80) as of 15 Sep 87. The preliminary analysis showed the tank to contain a hazardous waste. On 6 Nov 87, AS-419, sealed by Base Maintenance, was resampled for TOX, Flashpoint and Metals. The analysis will be forwarded when received.

2. It is requested that the contents of the subject tanks be disposed of in the same time frame as STT-61, STT-62, S-889 and S-891. Please advise as soon as possible of the anticipated dates removal of the contents of the subject tanks is anticipated both to begin and to be completed. Point of contact with this matter is Mr. Danny Sharpe, extensions 2083 or 2195.

JULIAN I. WOOTEN  
By direction

Blind copy to:  
BMO  
ECMS (2)

[Faint, illegible text covering the majority of the page, possibly bleed-through from the reverse side.]

END COPY FOR



\* U.S. GOVERNMENT PRINTING OFFICE: 1982-361-328/V-149

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ENCLOSURE (1)

\* U.S. GOVERNMENT PRINTING OFFICE: 1982-361-328/V-149

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			J. I. WOOTEN																																																																												

ENCLOSURE 121

\* U.S. GOVERNMENT PRINTING OFFICE: 1982-361-528/V-149

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ENCLOSURE (N)

Partial Results

JTC DATA REPORT # 87-441

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 136

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6267

PREPARED BY:

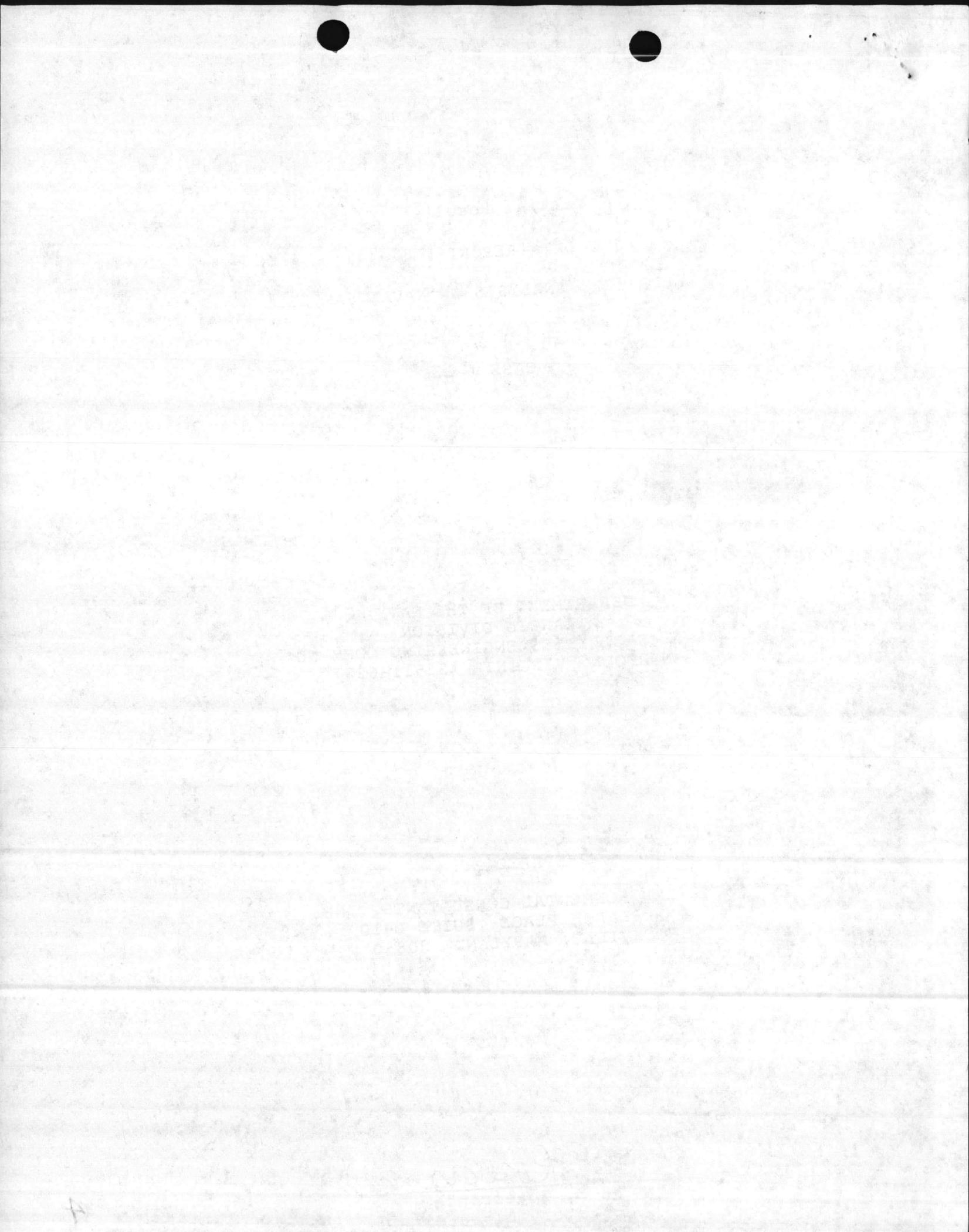
JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

OCTOBER 5, 1987

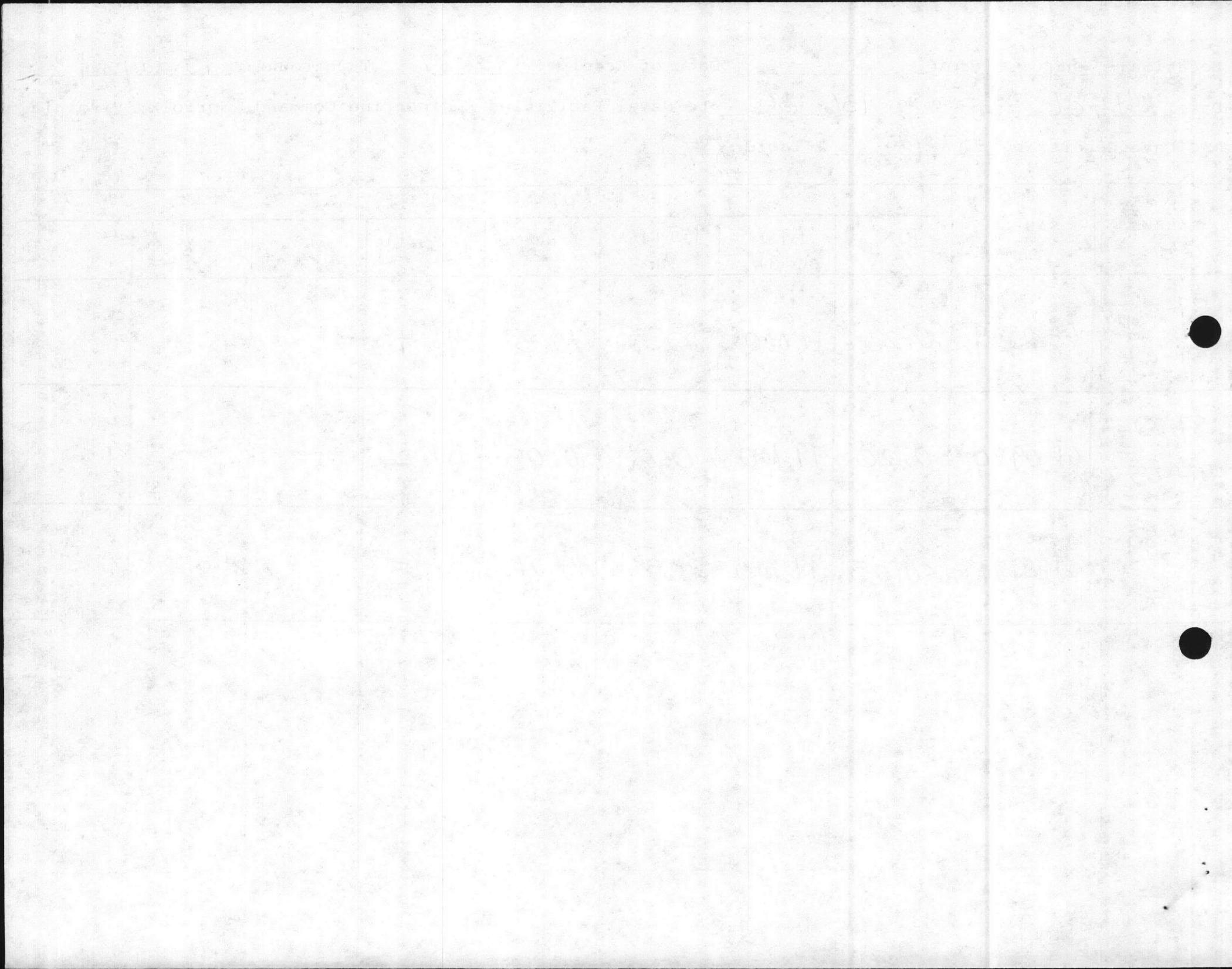
*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director

ENCLOSURE 141







Addendum

JTC DATA REPORT # 87-441

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 136

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

PREPARED BY:

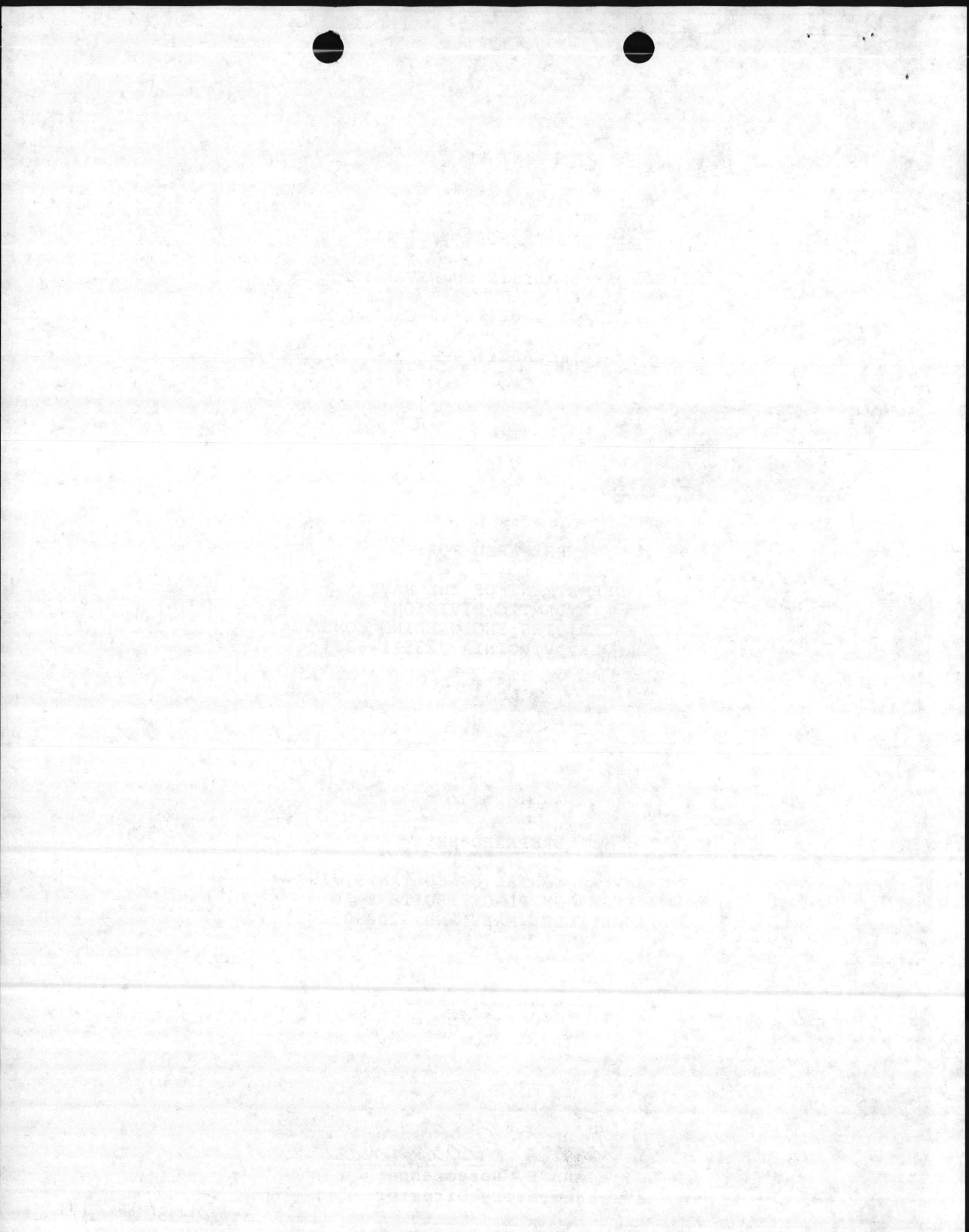
JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

OCTOBER 12, 1987

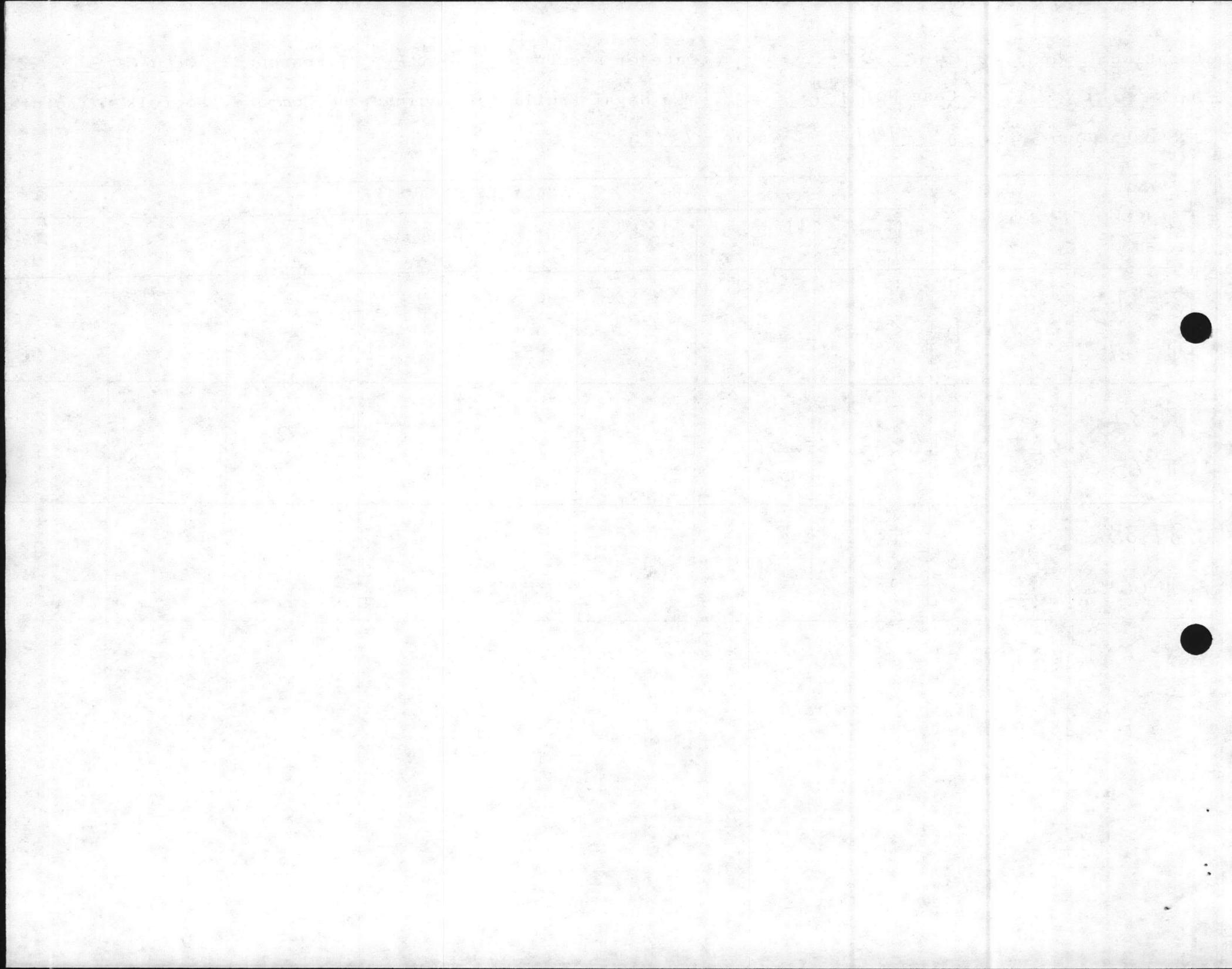
*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director

ENCLOSURE (4)







Addendum A

JTC DATA REPORT # 87-441

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE #136

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

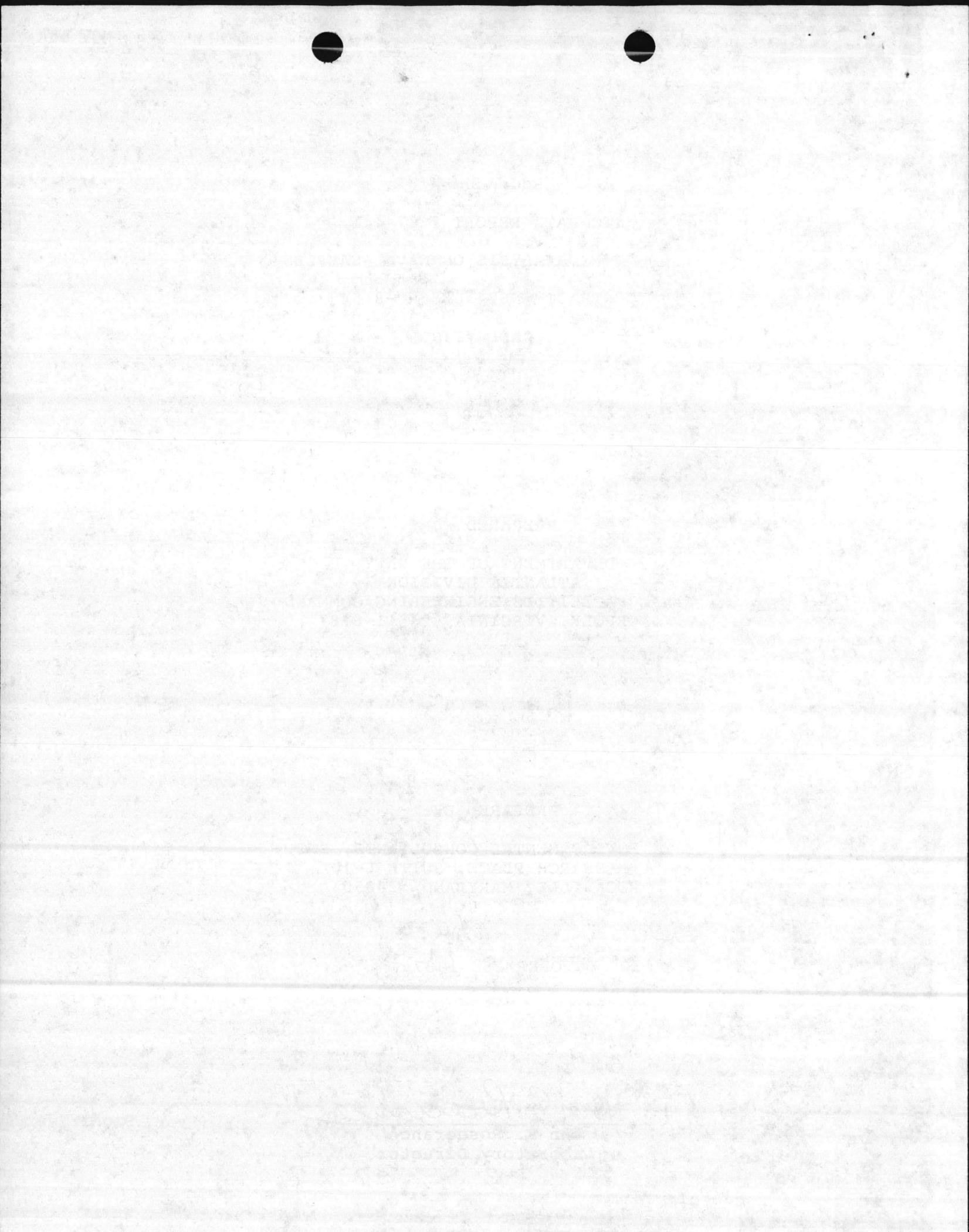
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

OCTOBER 26, 1987

*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director



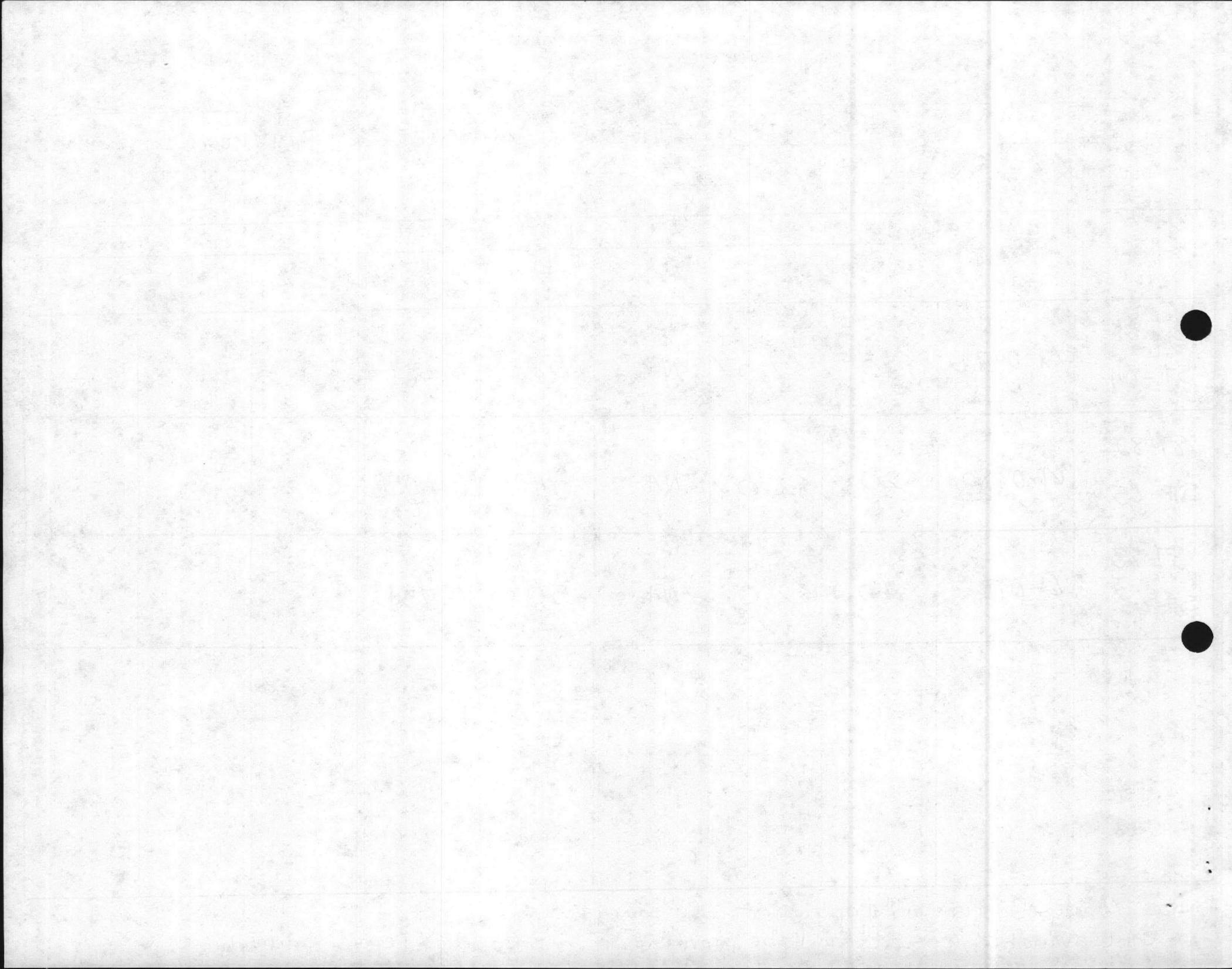
Location: Camp Lejeune Date of Receipt: 9-21-87 Turnaround: routine

Date: 10-26-87 Case No. 136 Add A to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-441 Table 1 of 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		As mg/kg	Cd mg/kg	Cr	Pb mg/kg	Sp. Gravity g/ml		
87-81 STI-64	61-0979	<20	<2.0	NA	58	0.697		
87-82 STI-65	61-0980	<20	<2.0	NA	54	0.605		
87-83 STI-66	61-0981	<20	<2.0	NA	50	0.731		

Note: Analyses run on top layer of sample  
NA = not available, results will be provided in a separate report addendum



Addendum B

JTC DATA REPORT # 87-441

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 136

Complete

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

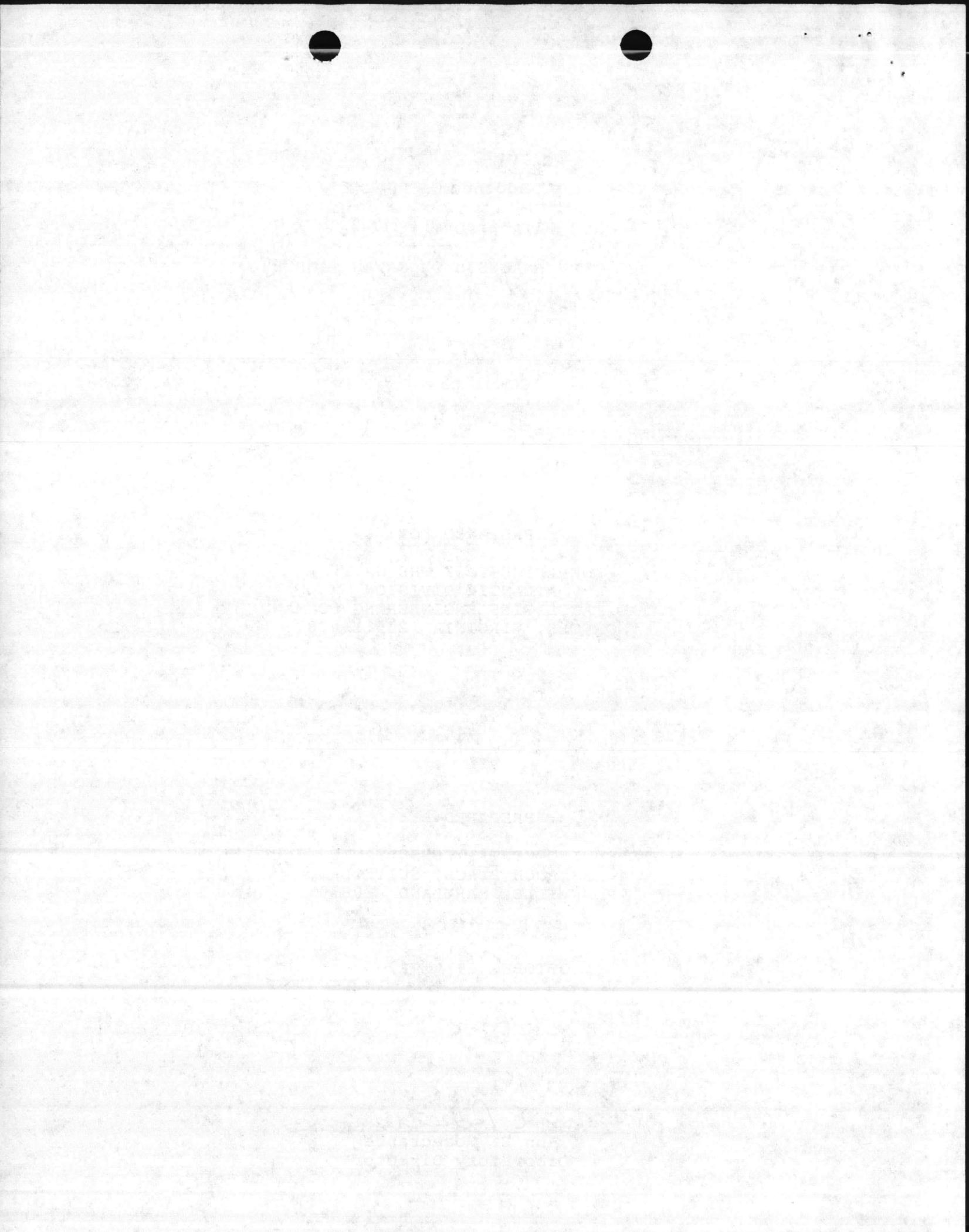
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

OCTOBER 29, 1987

*Ann E Rosecrance*

Ann E. Rosecrance  
Laboratory Director



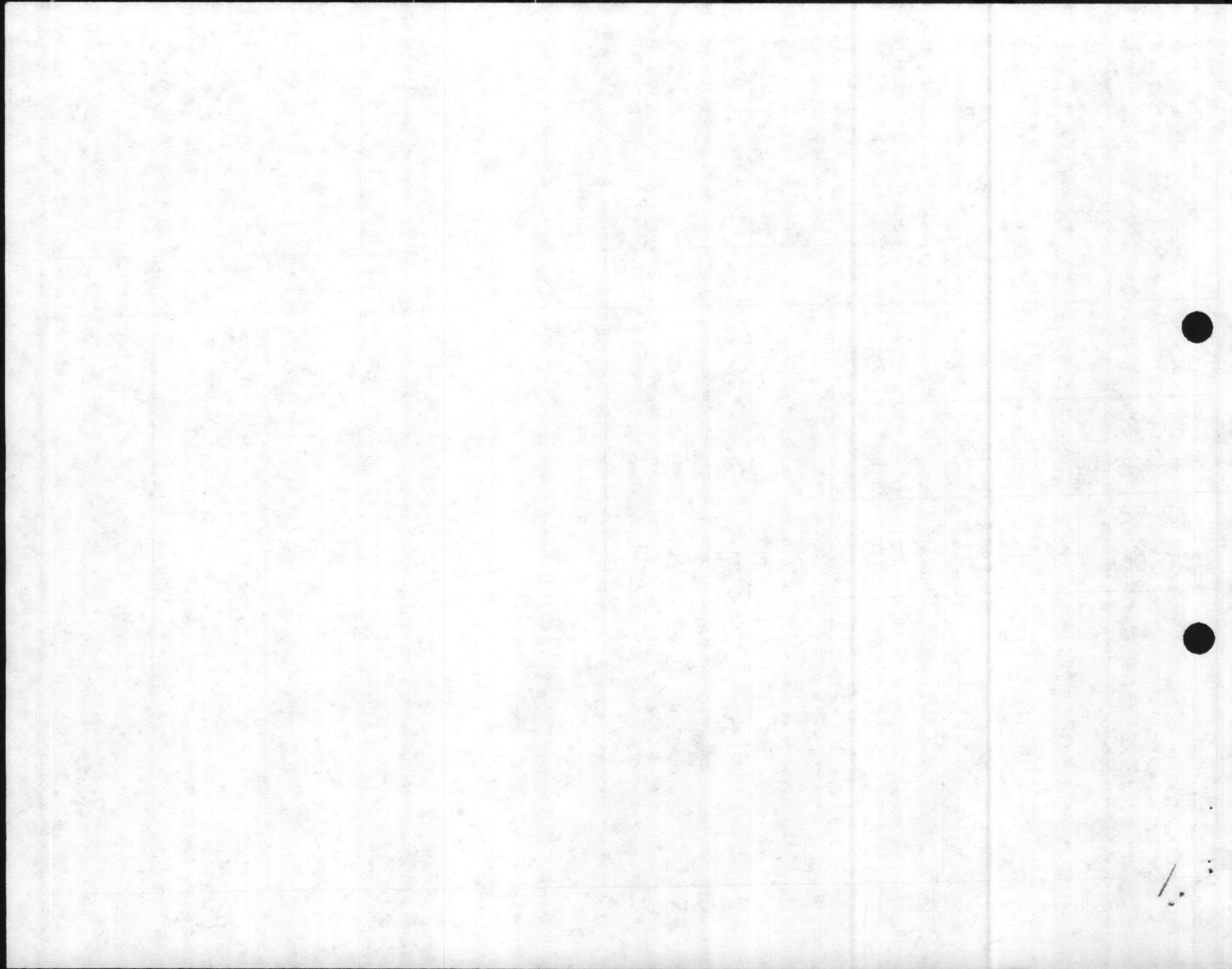
Location: Camp Lejeune Date of Receipt: 9-21-87 Turnaround: routine

Date: 10-29-87: Case No. 136 Add. B to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-441 Table 1 of 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		Cr mg/kg						
87-81 STI-64	61-0979	<1.5						
87-82 STI-65	61-0980	2.3						
87-83 STI-66	61-0981	<1.5						

Note: Analysis run on top layer of sample



Partial Results

JTC DATA REPORT # 87-444

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 138

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

OCTOBER 7, 1987

*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director

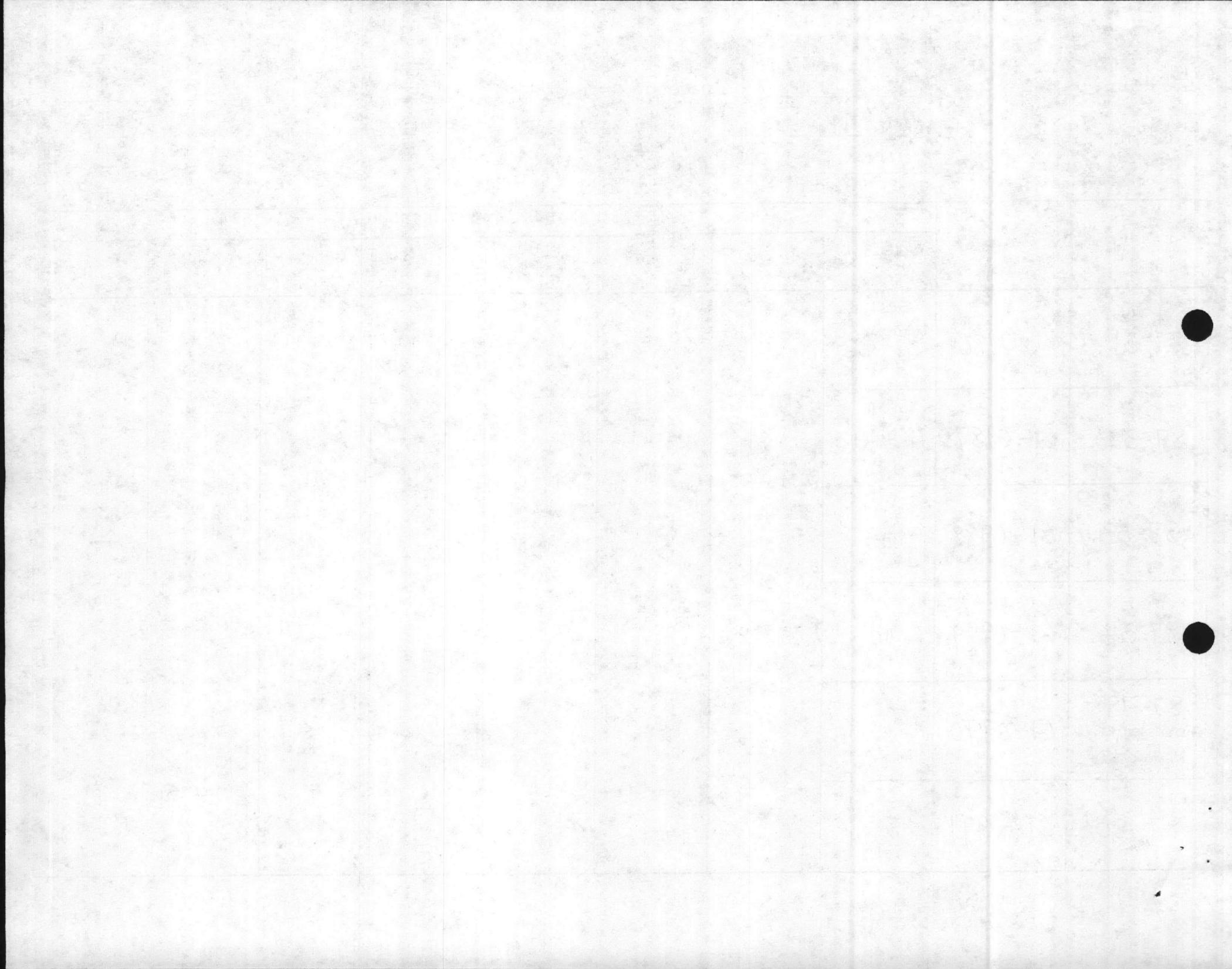
ENCLOSURE (5)



ENCLOSURE (2)

Location: Camp Lejeune Date of Receipt: 9-23-87 Turnaround: 10 days  
 Date: 10-7-87 Case No. 138 to Naval Facilities Engineering Command, Norfolk, Virginia  
 JTC Data Report No. 87-444 Table 1 of 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		VOA + Freon						
87-31	61-0986	see attached sheet						
87-32	61-0987							
87-33	61-0988							
87-34	61-0989							
87-79 oil layer composite	61-0990							
87-80	61-0991							



J  
T

C Environmental Consultants, Inc.

## PRIORITY POLLUTANT ANALYSIS DATA SHEET

## VOLATILE FRACTION

JTC SAMPLE # 61-0990 COMPOSITE PROJECT NO. NF-61 #138  
CLIENT SAMPLE # 87-79 DATE RECEIVED 9-23-87  
METHOD NO. 624 DETECTION LIMIT 250 mq/L

PARAMETER	RESULT mq/L	PARAMETER	RESULT mq/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene	200* <del>ND</del>	ethylbenzene	720 <del>ND</del>
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	100* <del>ND</del>	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene	970 <del>ND</del>
1,1-dichloroethylene	ND	trichloroethylene	50* <del>ND</del>
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1400	xylene	1500 <del>ND</del>
4-METHYL-2-PENTANONE (MIBK)	330	FREON	1600
2-HEXANONE	1100		

ND = NOT DETECTED

\* = BELOW DETECTION LIMIT



1. The first part of the document is a title page. It contains the title of the document, the author's name, and the date of publication. The title is "The History of the United States" and the author is "John Adams". The date is "1776".

2. The second part of the document is the introduction. It discusses the importance of the document and the author's purpose in writing it. The author states that the document is a record of the events that led to the founding of the United States and that it is intended to provide a clear and concise account of these events.

3. The third part of the document is the main body of text. It is divided into several sections, each dealing with a different aspect of the history of the United States. The first section discusses the early years of the country, from the time of the first settlers to the end of the Revolutionary War. The second section discusses the period of the early republic, from the end of the Revolutionary War to the beginning of the 19th century. The third section discusses the period of the 19th century, from the beginning of the 19th century to the end of the century.

4. The fourth part of the document is the conclusion. It summarizes the main points of the document and provides a final thought on the history of the United States. The author concludes that the history of the United States is a story of a people who have overcome many challenges and who have built a great nation.

J  
T

C Environmental Consultants, Inc.

## PRIORITY POLLUTANT ANALYSIS DATA SHEET

## VOLATILE FRACTION

JTC SAMPLE # 61-0991 PROJECT NO. NF-61 #138  
CLIENT SAMPLE # 87-80 DATE RECEIVED 9-23-87  
METHOD NO. 624 DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mg/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene	200 * <del>ND</del>	ethylbenzene	460 <del>ND</del>
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	ND	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene	1300 <del>ND</del>
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	2300	xylene	2100 <del>ND</del>
4-METHYL-2-PENTANONE (MIBK)	500	FREON	600
2-HEXANONE	1500		

ND = NOT DETECTED

\* = BELOW DETECTION LIMIT



EXHIBIT

EXHIBIT

DATE

DESCRIPTION

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Addendum

JTC DATA REPORT # 87-444

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 138

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

OCTOBER 12, 1987

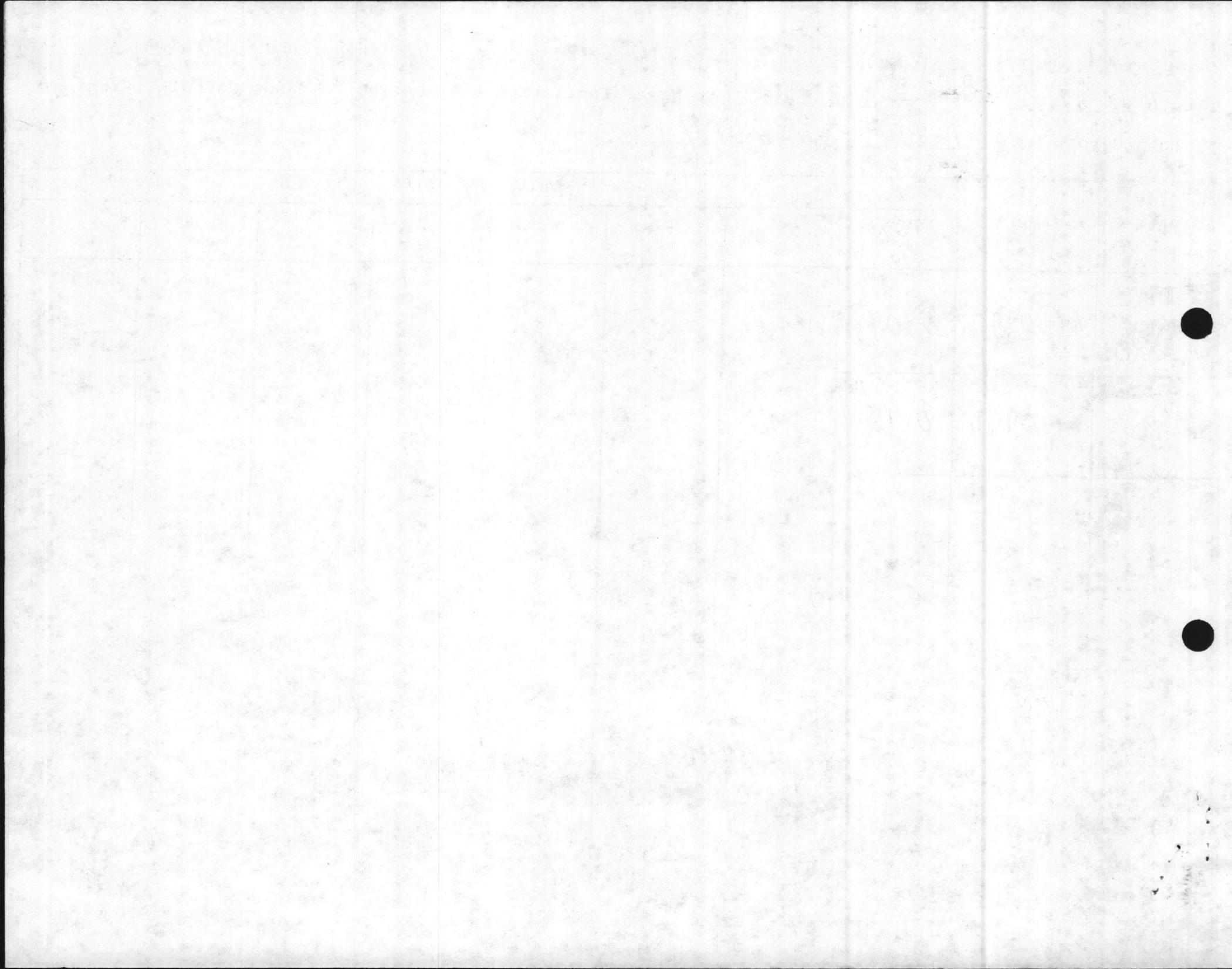
*Ann E Rosecrance*

Ann E. Rosecrance  
Laboratory Director

ENCLOSURE (1)







# Memorandum

DATE: 16 Nov 87

FROM: Supvy Chemist

TO: Supvy Ecologist

SUBJ: BASE MAINTENANCE LETTER 6280 DTD 6 NOV 87; COMMENT ON

1. Background: On 15 Sep 87, Tom Barbee and I sampled STT-64, STT-65 and STT-66. The full signs were on all three tanks. I told Pete Avant that I sampled those tanks. D. Gurganus on 19 Oct 87 admitted that they removed some water and added oil to STT-64 and STT-65 but they were now through with them. He added they were still using STT-66.

2. Discussion:

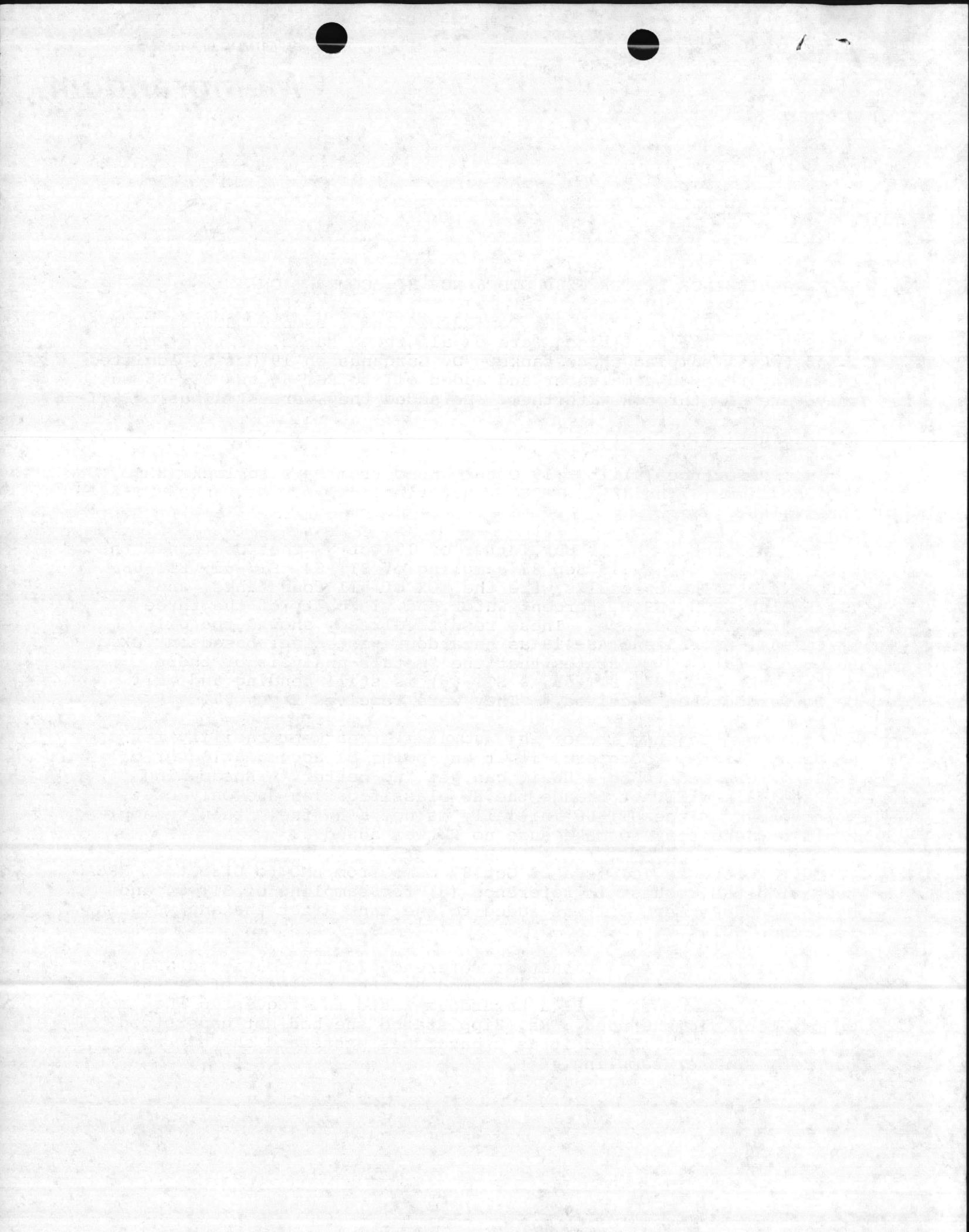
a. Reference (a) is a 19 Oct 87 memo from Dave Bullock (HMDO, BMD) to Sammy Gwynn (HMDC, MCB) requesting analysis of tanks STT-64 and STT-65.

b. Reference (b) is our letter of 19 Oct 87 that contained the first results of the 15 Sep 87 sampling of STT-64, STT-65, STT-66 and AS-419. These results were the TOX of all four tanks, and flashpoint, BTU, BS&W, percent water and viscosity of the three tanks at Tarawa Terrace. These results already showed the oil in STT-64, STT-65 and AS-419 as hazardous waste fuel based on TOX. Reference (b) further states that the "metals analysis of these three tanks (STT-64, STT-65, & STT-66) is still pending and will be forwarded when received." They were received 9 Nov 87.

c. Camp Lejeune is not an authorized treatment facility for hazardous waste, therefore, if at any point of accumulation of oil it is determined to be a HW it can get "no better." Resampling and analysis will not change the HW classification and only cost more money. Since STT-66 initially is not a HW fuel, then resampling would be necessary to make sure no HW was added.

d. Reference (c) is a 26 Oct 87 memo from BMO to Director, NREAD repeating the request in reference (a) for sampling of STT-64 and STT-65 because more oil was added to the tank after the analysis in reference (b).

(Personal Input: As a result of reference (c), I contacted Nadine Hipp (DRMO) on 27 Oct 87 and informed her the analysis of STT-64 and STT-65 showed it to be a hazardous waste and requested what more information did she need. Ms. Hipp stated she had not understood that the analysis showed it as a hazardous waste and she saw no need for further sampling.)



e. Reference (d) is a 30 Oct 87 letter from Dir, NREAD to BMO stating that per a phone conversation between Ms. Hipp and Ms. Betz it was determined no further sampling is necessary of STT-64 and ST-65. BMO then asks NREAD to sign the DD-1348-1 documents for the waste oil in STT-64 and STT-65 and to attach appropriate analysis.

f. Reference (b) states that the TOX for AS-419 was provided for information.

g. Reference (e) is a 16 Oct 87 letter from CG, MCB to DRMO. It recommended that AS-419 be disposed of as a HW fuel based on the VOC data contained within. It requested that DRMO advise of additional testing required.

(Personal Input: The lab has sampled AS-419 for TOX and VOC to see how it compared to the other tanks, since AS-419 was receiving oil after MCAS-NR started segregating the freon. It was not sampled for disposal purposes. We knew BMD was still using the tank. But since it showed TOX and Freon high enough for HW classification, ultimately DRMO would have to dispose of it as a HW fuel. That is why it was stated in reference (e) that "[AS-419] tank be disposed of as a hazardous waste fuel." BMD request for analysis of AS-419 is dated 28 Oct 87.)

h. BMO requests that either NREAD or Ground Safety Office sign the DD 1348-1 for AS-419.

i. AS-419 and STT-66 were resampled 6 Nov 87 and will be mailed 16 Nov 87. Turn-in of STT-66 can not be completed until results are received.

j. I recommend that documents for STT-64 and 65 and AS-419 be submitted showing the contents to be a HW.

E. A. BETZ





UNITED STATES MARINE CORPS  
BASE MAINTENANCE DIVISION  
MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542-5000

IN REPLY REFER TO  
6280  
MAIN

06 NOV 1987

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

Subj: DISPOSAL OF HAZARDOUS WASTE/WASTE OIL

Ref: (a) BMain HMDO memo of 19 Oct 87  
(b) Dir NREAD ltr 6241/2 NREAD of 19 Oct 87  
(c) BMO ltr 6280 MAIN of 26 Oct 87  
(d) Dir NREAD ltr 6241/2 NREAD of 30 Oct 87  
(e) CG MCB ltr 6241/2 NREAD of 16 Oct 87

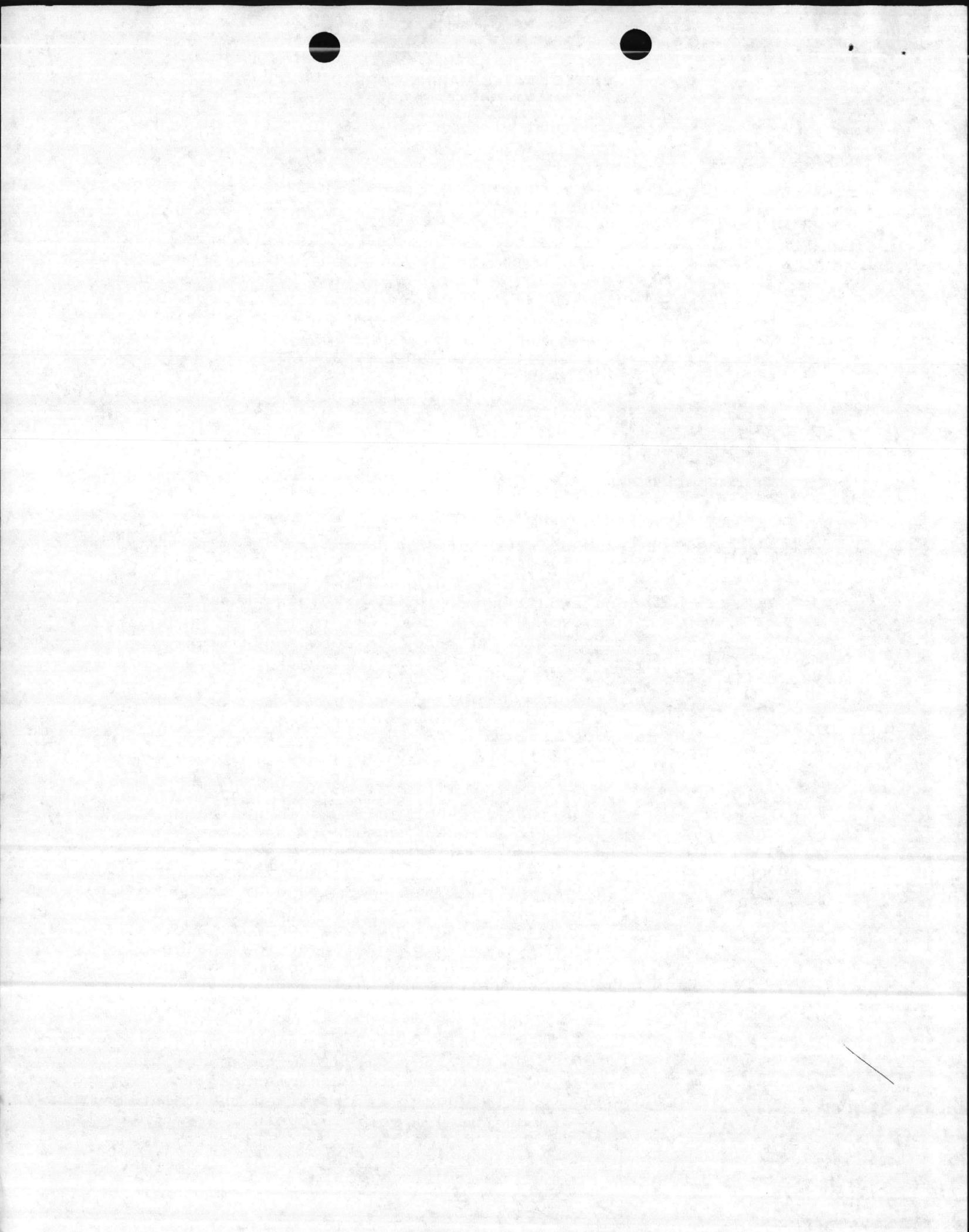
Encl: (1) DD Form 1348-1, Contents of Tank STT-64  
(2) DD Form 1348-1, Contents of Tank STT-65  
(3) DD Form 1348-1, Contents of Tank AS-419

1. Reference (a) requested that oil in tanks STT-64 and STT-65 be sampled and analyzed so that turn-in documents could be prepared. Reference (b) provided only partial analysis required by RCRA and recommended by ENSAFE for disposal of used oil. Analysis for total halogens and flashpoint was provided but ppm for arsenic, cadmium, chromium and lead were not included. Moreover, reference (b) states that oil was added to both tanks after samples were taken. That fact alone would make the analysis provided to be suspect.

2. Reference (c), after discussing these analyses with DRMO, requested another analysis after the tank had been secured. We believe that request is still valid and the analysis still required.

3. Reference (d) advises that further analysis is not needed and states that BMO should submit disposal documents as soon as possible. In order to resolve this dilemma, we have prepared disposal documents for your signature for STT-64 and STT-65. If it is your belief that sufficient analysis has been done on the oil in these two tanks, please sign the documents at enclosures (1) and (2). You may attach whatever analysis you consider appropriate from your files, or we will provide to you the analyses that were forwarded to us. You may have the documents delivered to DRMO, in which case you should provide us a copy; or, you may return them to us and we will deliver them.

4. The same dilemma exists with the "third waste oil tank" at MCAS New River. Reference (b) provided only TOX for the oil in this tank and stated that JCT Environmental Consultants, Inc. Report #87-444, attached to reference (e), contained the volatile organic chemical analysis. Again, ppm for flashpoint, arsenic, cadmium, chromium and lead have been ignored. Additionally, reference (e) recommended disposal while the tank was still being



Subj: DISPOSAL OF HAZARDOUS WASTE/USED OIL

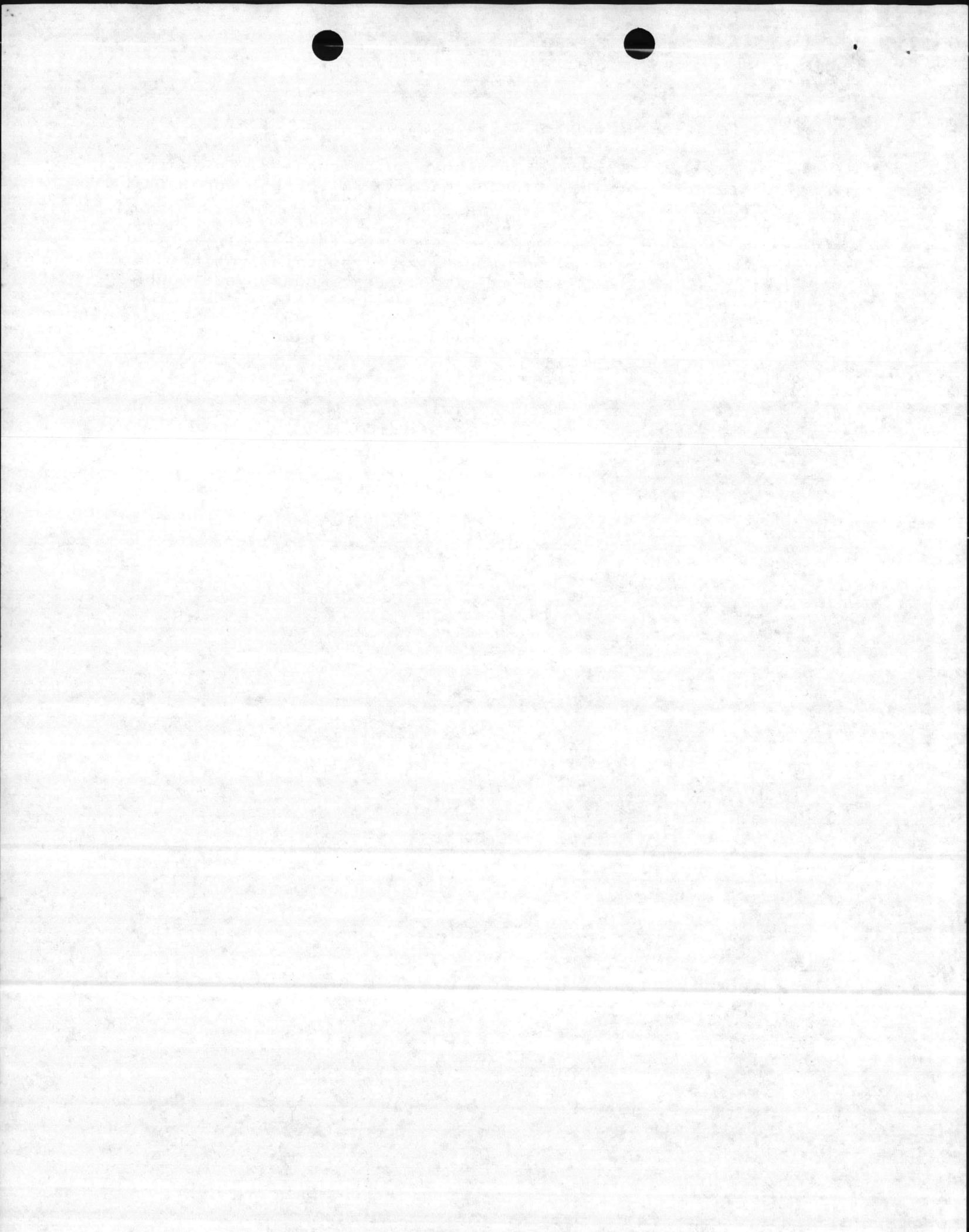
filled. Again, I believe the analysis to be suspect, in addition to being incomplete. They provide parameters for only one of six properties for which RCRA requires analysis.

5. We are, however, interested in resolving this problem. To this end, we have prepared enclosure (3) without indicating who should sign it. You may sign it or you may request your counterpart at the Air Station to sign it. Please follow the same guidelines mentioned in paragraph 3 pertaining to attaching analysis, providing copies to us, and delivery to DRMO.

6. Your cooperation in resolving this matter is appreciated.

  
M. G. LILLEY

Copy to:  
DRMO



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
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FIRST DESTINATION ADDRESS															DATE SHIPPED				THIS IS TO CERTIFY THAT THE ABOVE MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF DOT AND EPA.																																																												
11															12		14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)		15 RECEIVER'S DOCUMENT NUMBER		J. I. WOOTEN																																																										
13 TRANSPORTATION CHARGEABLE TO																																																																															

☆ U.S. GOVERNMENT PRINTING OFFICE: 1966-491-647 (20093)

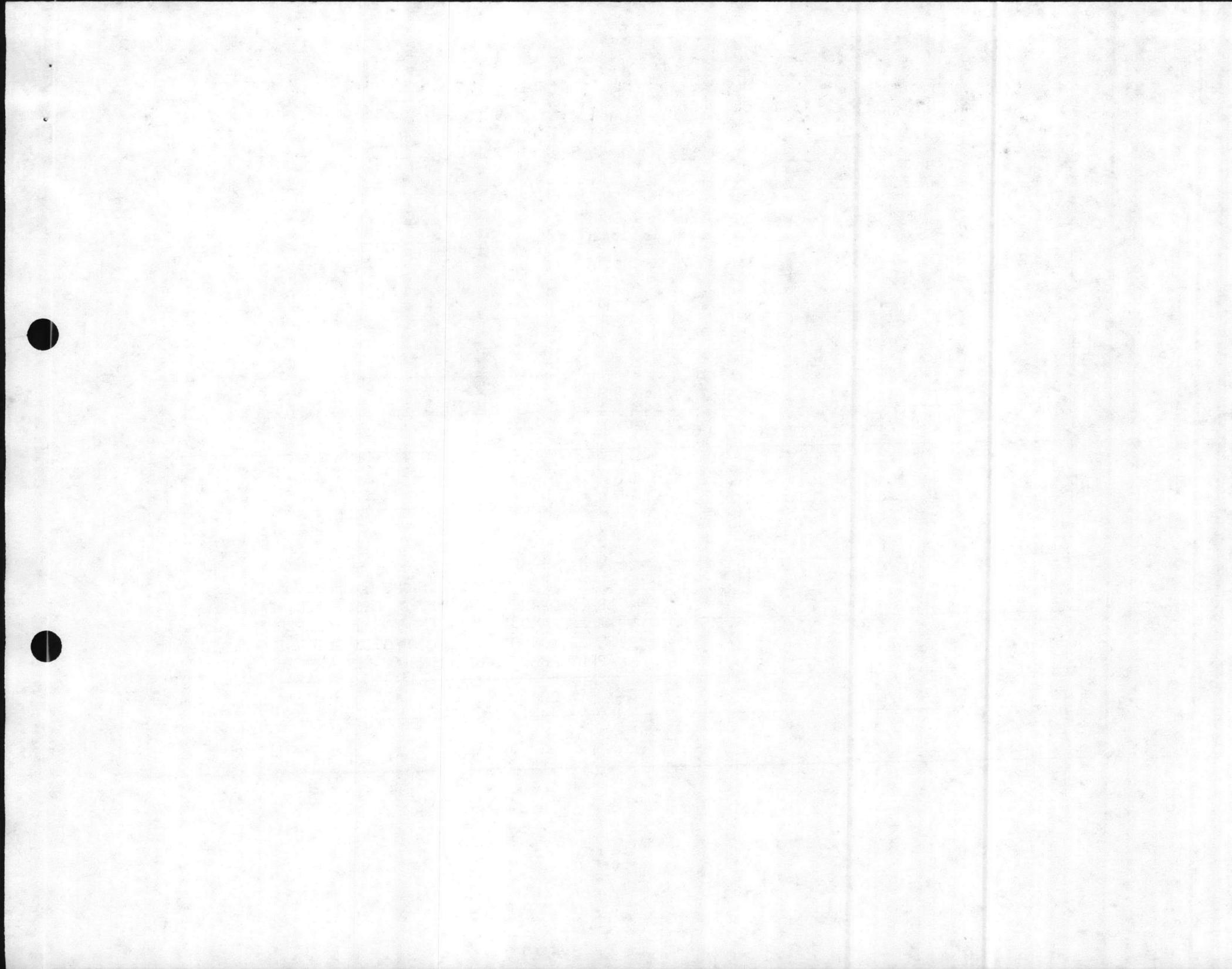
Enc 1 (1)

DD FORM 1348-1  
 S/N 0102-LF-013-1040

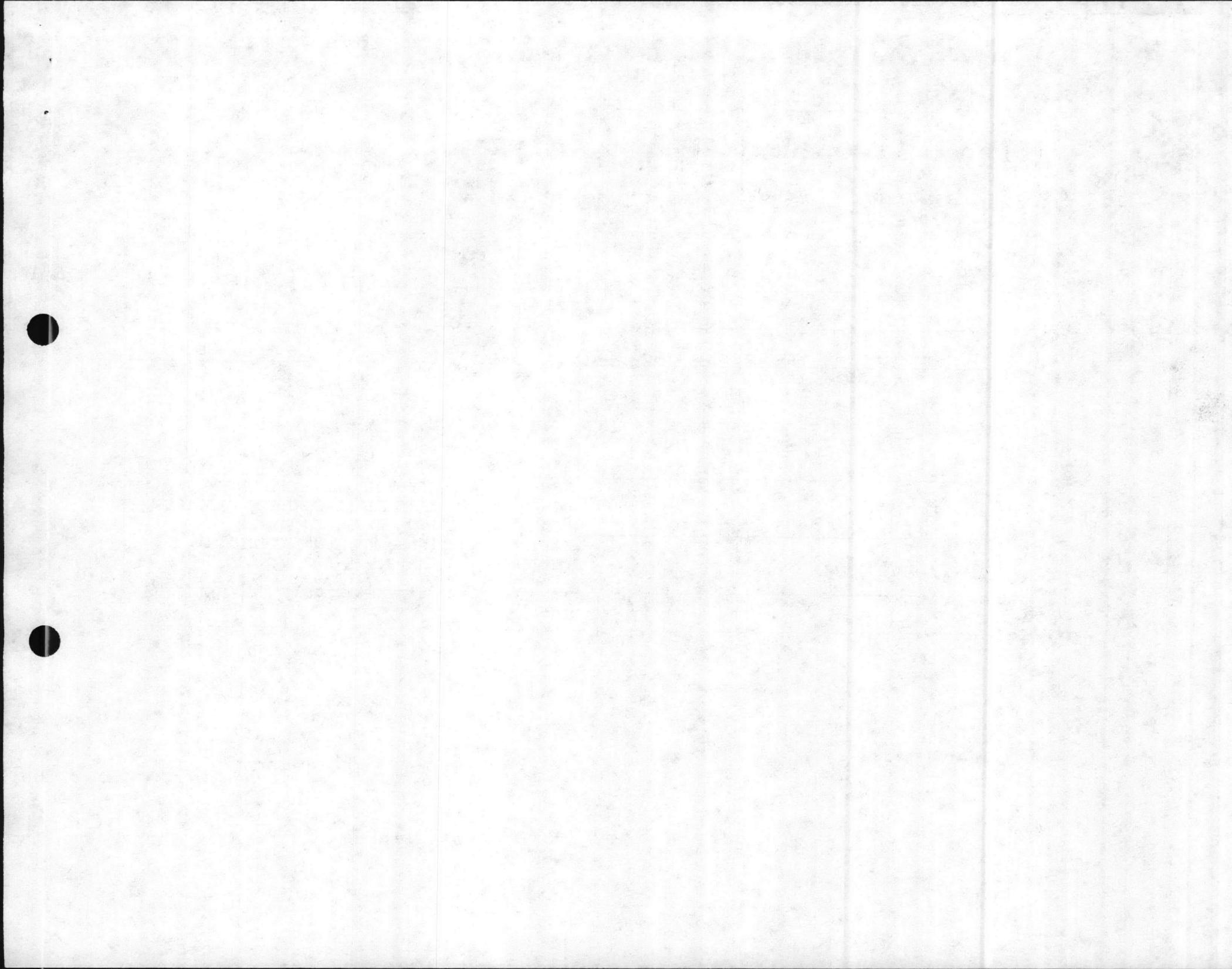
1 MAR 74

EDITION OF 1 JAN 64 MAY BE USED  
 UNTIL EXHAUSTED

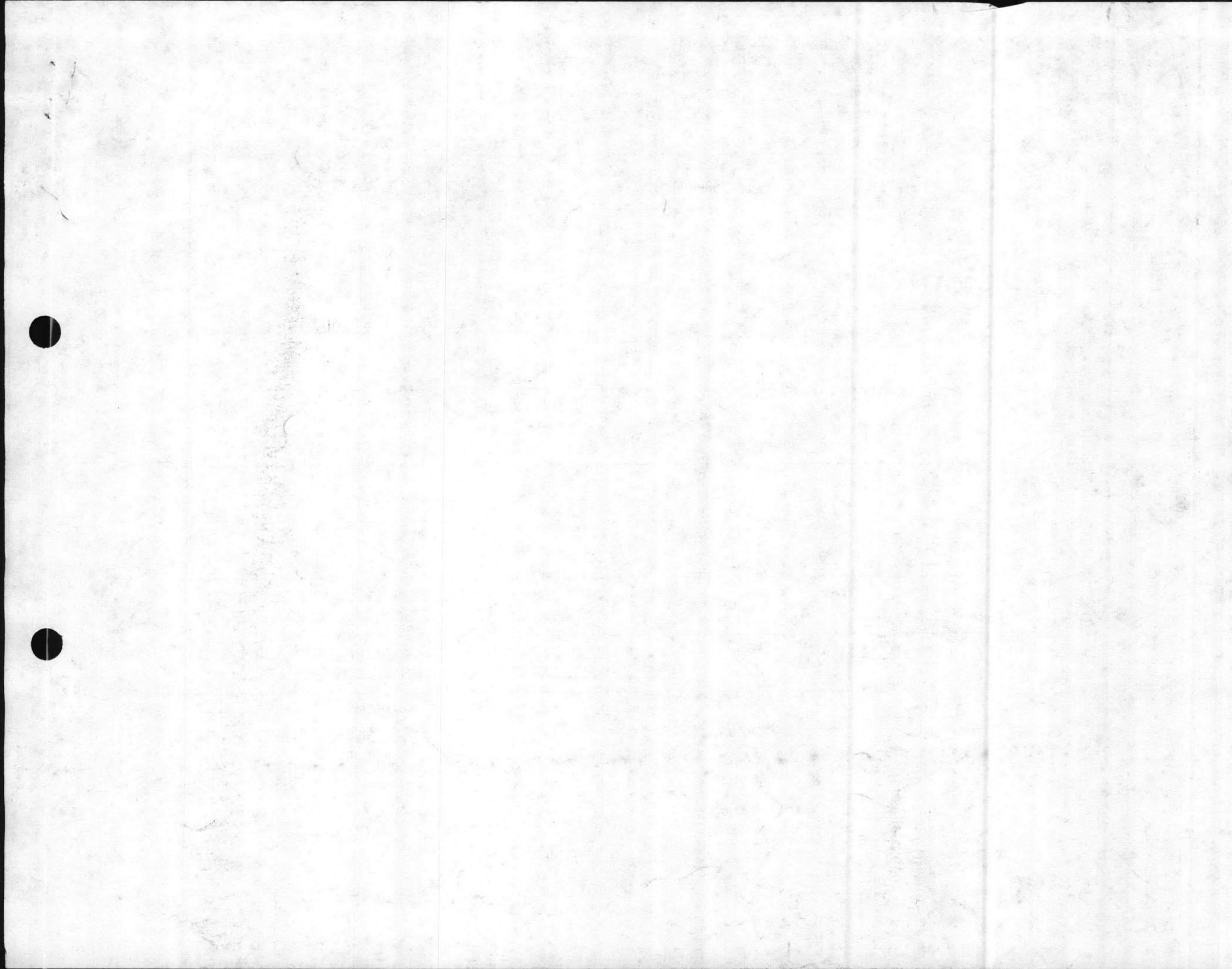
DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT









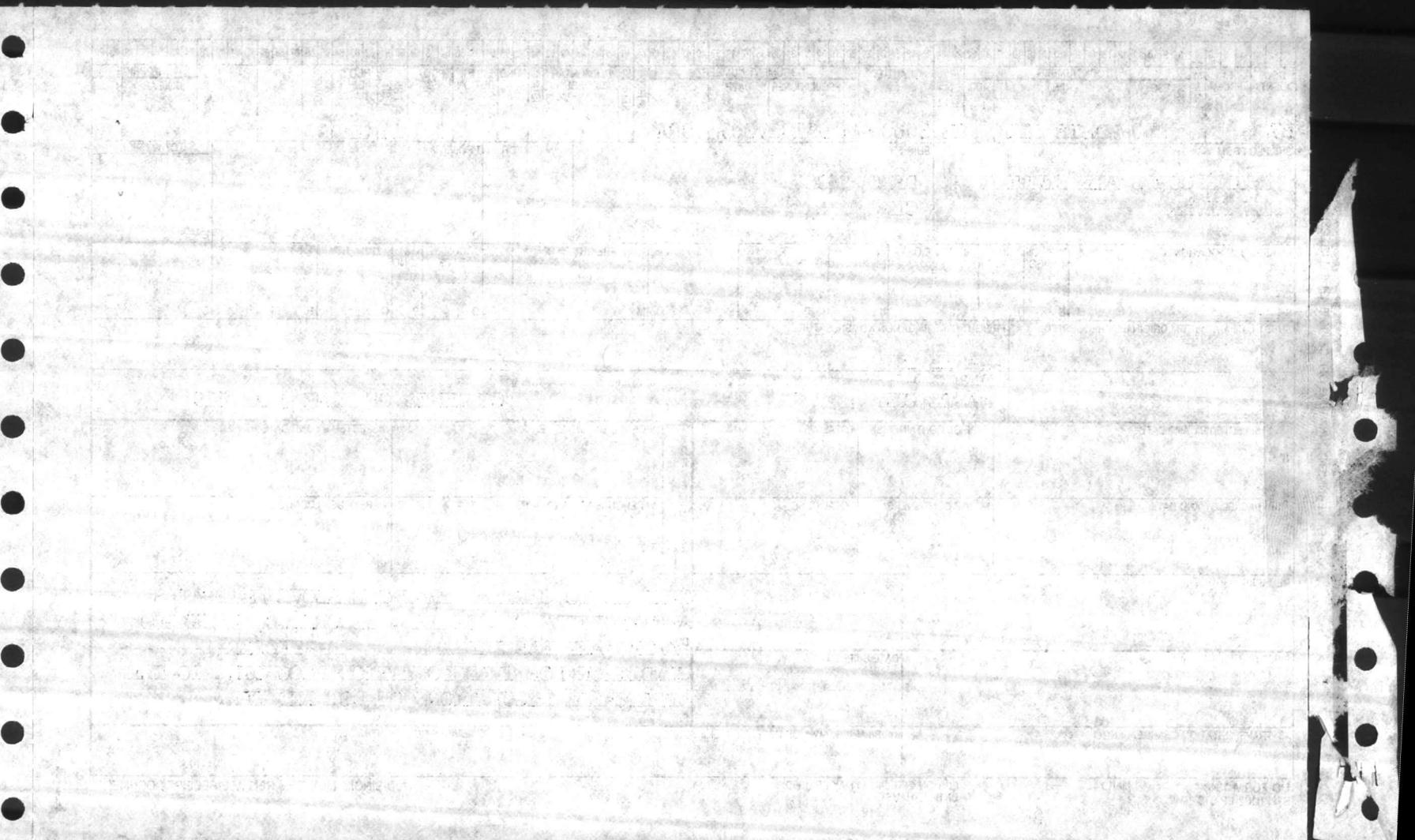


# CARBON PAPERS

THIS DOCUMENT CONTAINS CARBON PAPERS

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New Bern, NC  
1-888-622-4425  
10/08







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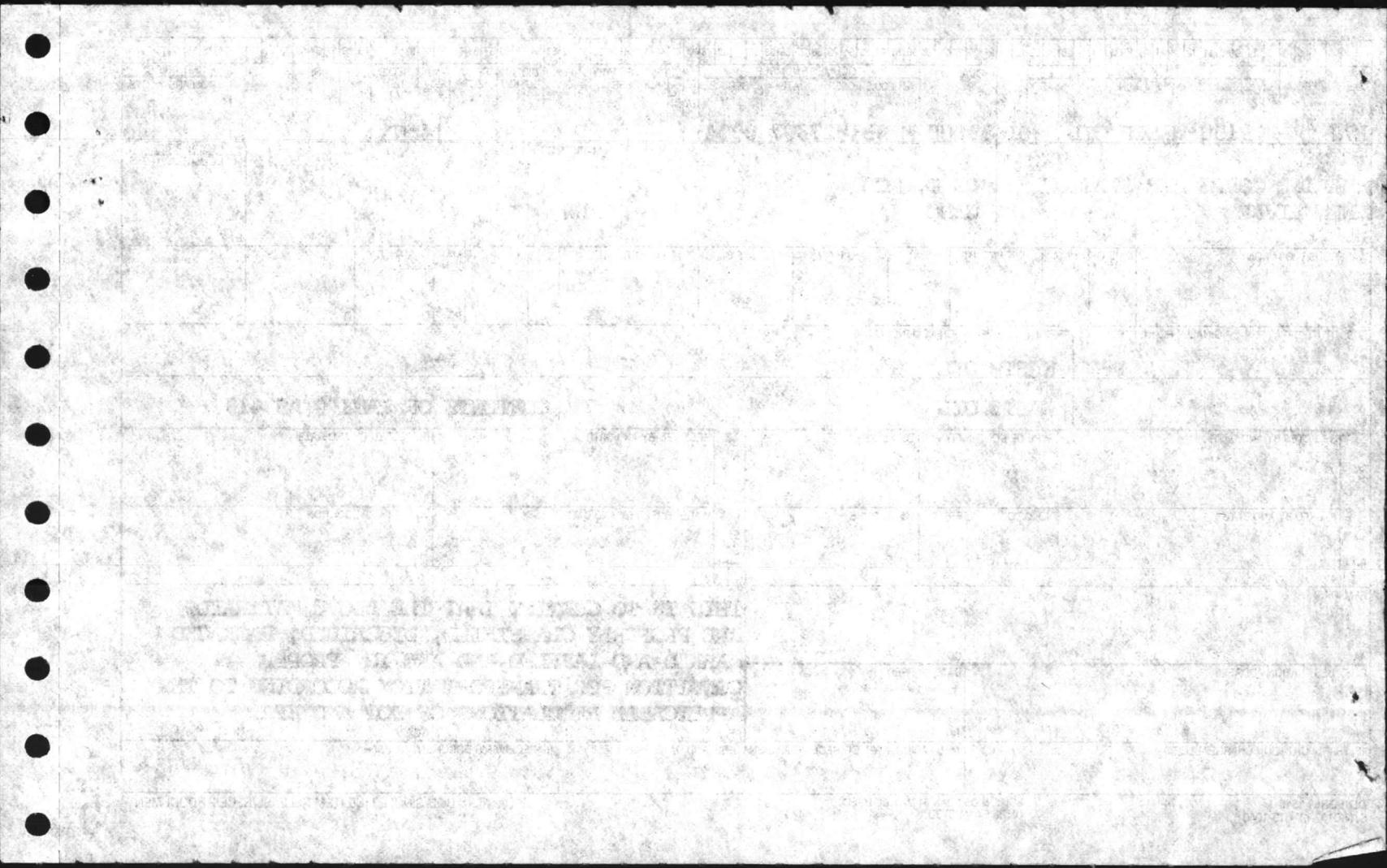












# Memorandum

DATE: 28 Oct 87  
FROM: HMDO, Base Maintenance Division  
TO: HMC, Natural Resources

SAMPLED  
6 NOV 87

SUBJ: REQUEST FOR ANALYSIS OF CONTENTS IN STORAGE TANK AS-419

1. It is requested that the subject tank be sampled, analysis conducted, and two copies of the analysis be furnished to this Office. Further, it is requested that your analysis include the following:

- a. TOX-total Hologens in PPM
- b. Flashpoint-in degress Farenheight
- c. Arsenic content - in PPM
- d. Cadmium - in PPM
- e. Chromium - in PPM
- f. Lead - in PPM

2. Storage space for used oil storage is very limited at this time, therefore, it is requested that this request be expedited.

*David K. Bullock*  
DAVID K. BULLOCK

TO: E Betz, ~~and~~ (Copy to S. Gwynn)

Please make personal contact with DRMO,  
Verify their additional requirements, and  
Take necessary action to ensure data  
Provided to support expedited removal.

*D. Sharpe*  
29 Oct 87



(1954)

Handwritten notes, possibly a list or summary, covering the middle section of the page. The text is faint and difficult to read.

Report

1954

# Memorandum

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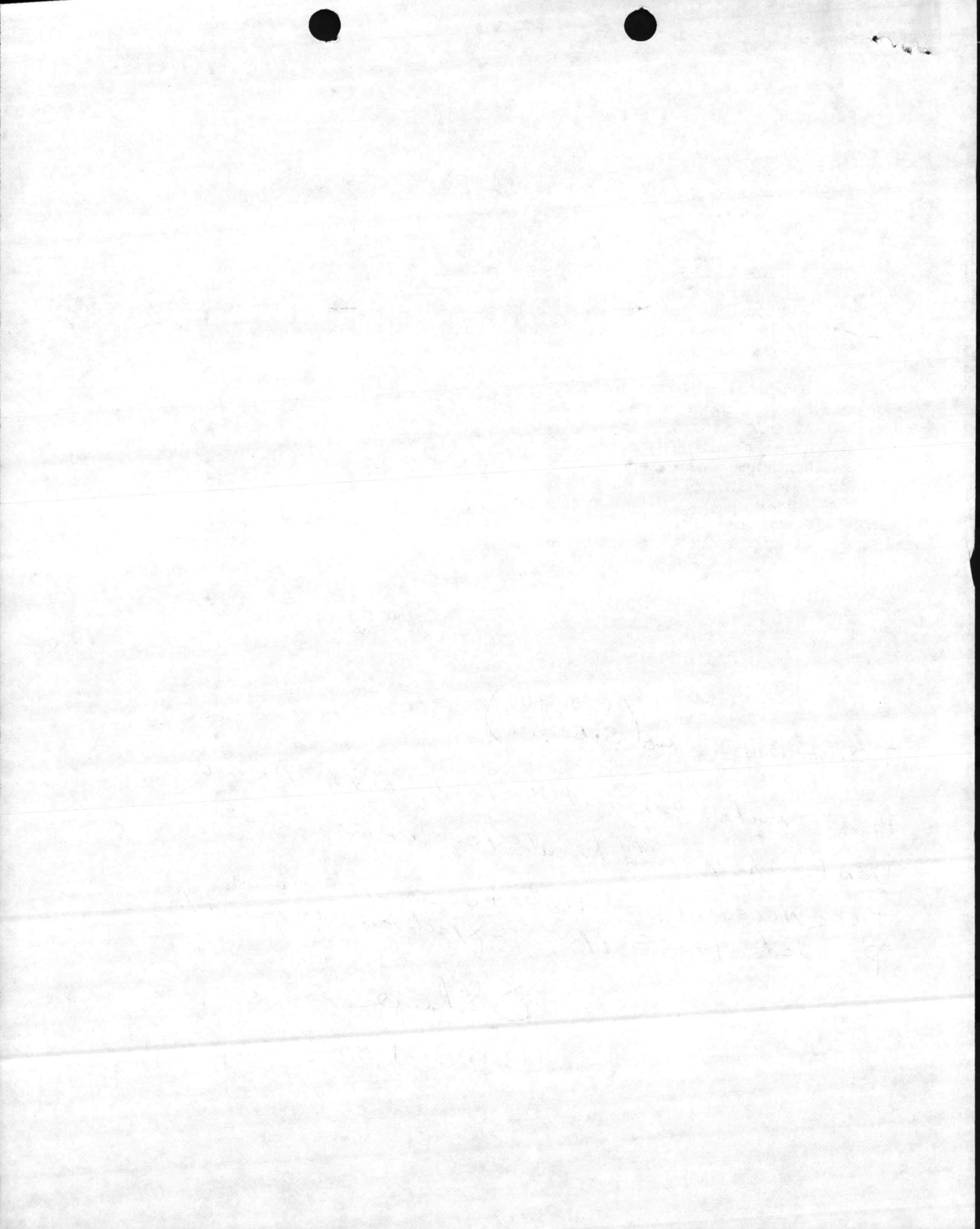
*David K. Bullock*  
DAVID K. BULLOCK

TO: E Betz, ~~via~~ (Copy to S. Gwynn)

Please make personal contact with DRMO,  
Verify their additional requirements, and  
Take necessary action to ensure data  
provided to support expedited removal.

*D. Sharpe*

29 Oct 87



6280  
MAIN

27 Oct 87

Transportation General Foreman

Property Management Section

WASTE OIL

1. Tank AS-419 is at maximum capacity. It is requested that this tank be sampled, analysis conducted, and disposed of immediately due to the limited storage capacity available. No space is available at MCAS for storage of waste petroleum products.

DONALD GURGANUS

Blind Copy To:

→ DirNREA

BMO

DirM&R

GrdStruGenFor

*Handwritten initials/signature*

1950  
1951

TRANSPORTATION...  
...SECTION

1950

...of the...  
...the...  
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DONALD CHAMBERS

...copy to:  
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6241/2  
NREAD  
19 Oct 87

**From:** Director, Natural Resources and Environmental Affairs,  
Marine Corps Base, Camp Lejeune  
**To:** Base Maintenance Officer, Marine Corps Base, Camp Lejeune  
**Subj:** WASTE OIL TANKS; ANALYSIS OF

**Ref:** (a) CG MCB CLNC ltr 6241/2 of 16 Oct 87

**Encl:** (1) JTC Environmental Consultants, Inc. Rept. No. 87-444  
Addendum  
(2) BNAIND, HMDO memo of 19 Oct 87  
(3) JTC Environmental Consultants, Inc. Rept. No. 87-441  
(4) JTC Environmental Consultants, Inc. Rept. No. 87-441  
Addendum

1. The following data is forwarded for your information. Enclosure (1) contains the Total Organic Halogen analysis of the third waste oil tank at the Marine Corps Air Station, New River (AS-419). Reference (a) contained the volatile organic chemical analysis on AS-419.

2. In regard to enclosure (2), enclosures (3) and (4) contain analysis of the last three tanks at Tarawa Terrace (STT-64, STT-65 and STT-66). It is recommended that STT-64 and STT-65 tanks be managed as a hazardous waste. Tank STT-66 is currently being filled. Based on the enclosed data, the contents of STT-66 can be managed as off-specification used oil. The volatile organic chemical and metals analysis of these three tanks is still pending and will be forwarded when received. Tank STT-66 will require resampling and testing prior to initiating disposal. Please advise Director, NREAD, when STT-66 is filled.

3. By copy of this memorandum, the Defense Reutilization and Marketing Officer (DRMO) is advised that oil was added to both STT-64 and STT-65 after the samples were taken. Please advise if DRMO requires retesting of these two tanks. POC is Mr. Danny Sharpe, extension 5003.

PETER E. BLACK  
Acting

Copy to:  
DRMO  
AC/S FAC

Bcc:

→ Lab (2)

19-00000  
19-00000  
19-00000

Special Agent in Charge, Federal Bureau of Investigation  
Washington, D. C. 20535

TO: SAC, NEW YORK (100-100000)

FROM: SAC, NEW YORK (100-100000)

RE: [Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

100-100000

100-100000

100-100000

Addendum

JTC DATA REPORT # 87-444

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 138

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

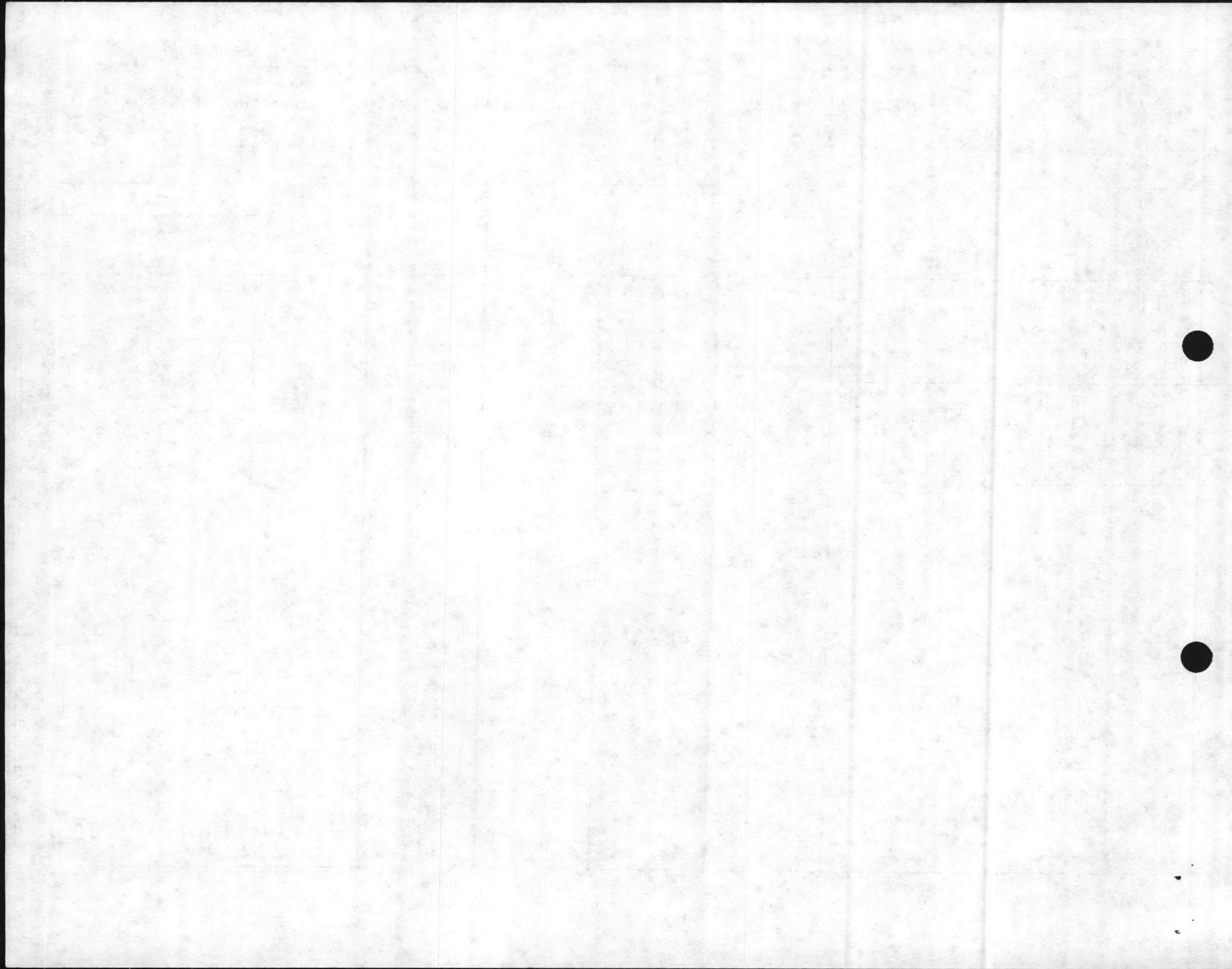
OCTOBER 12, 1987

*Ann E Rosecrance*

Ann E. Rosecrance  
Laboratory Director







# Memorandum

DATE: 19 OCT 87

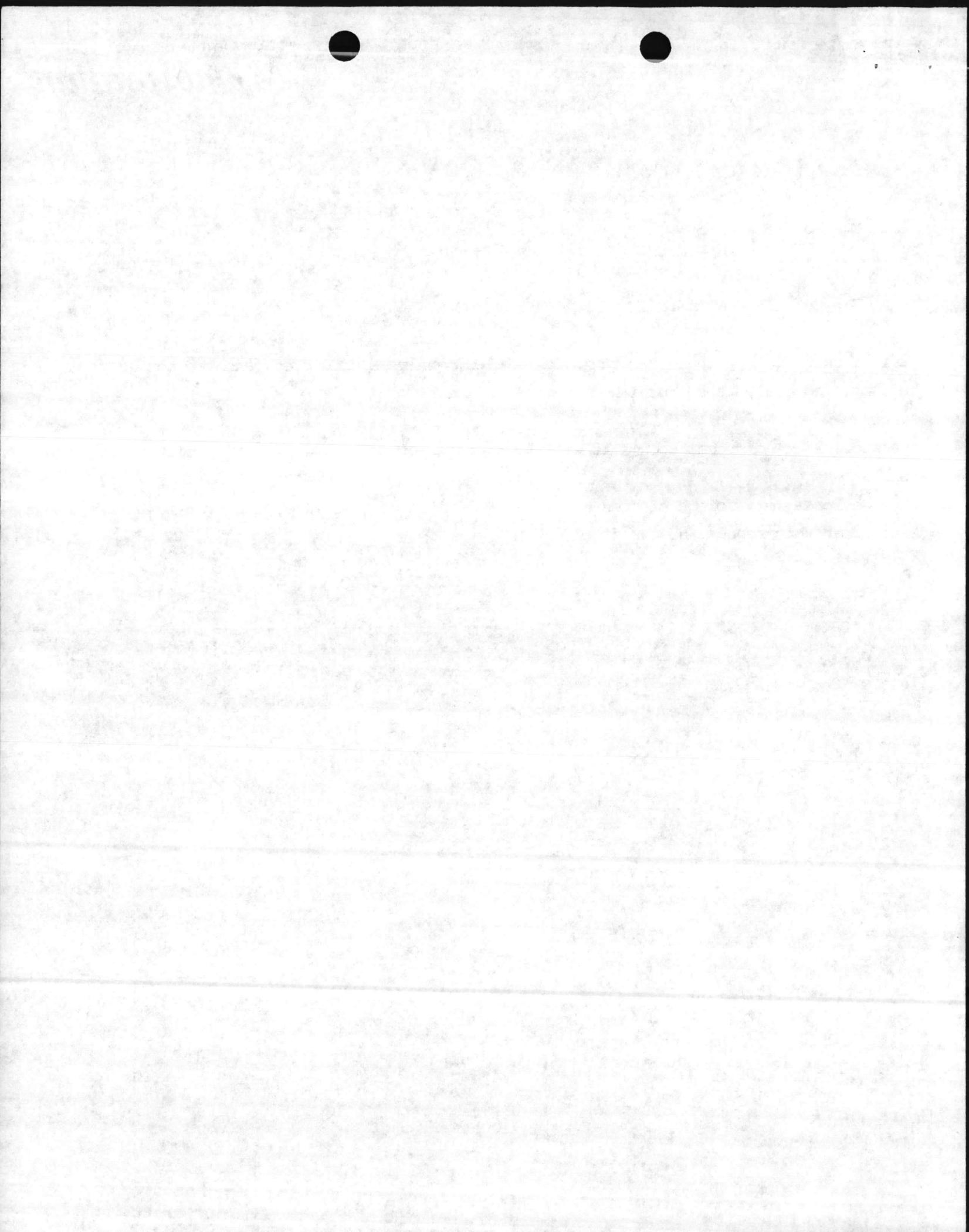
FROM: HMDO, BASE MAINTENANCE DIVISION

TO: HMC, NATURAL RESOURCES

SUBJ: ANALYSIS OF OILS CONTAINED IN TANKS STT-64 AND STT-65

1. It is requested that these two tanks be sampled, analysis conducted, and two copies of the completed analysis be furnished to this office.
2. The appropriate disposal documents will be prepared upon receipt of the completed analysis.
3. Storage space for storage of used oil is very limited at this time, therefore it is requested that this request be expedited.

*David K. Bullock*  
DAVID K. BULLOCK



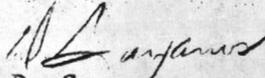
19 October, 1987

Transportation General Foreman

Property Management Section

Waste Oil

Tank #STT-64 and Tank #STT-65 are at maximum capacity. It is requested that these two tanks be Sampled, Analysis conducted, and Disposed of immediately due to the limited storage capacity available.

  
D. Gurganus

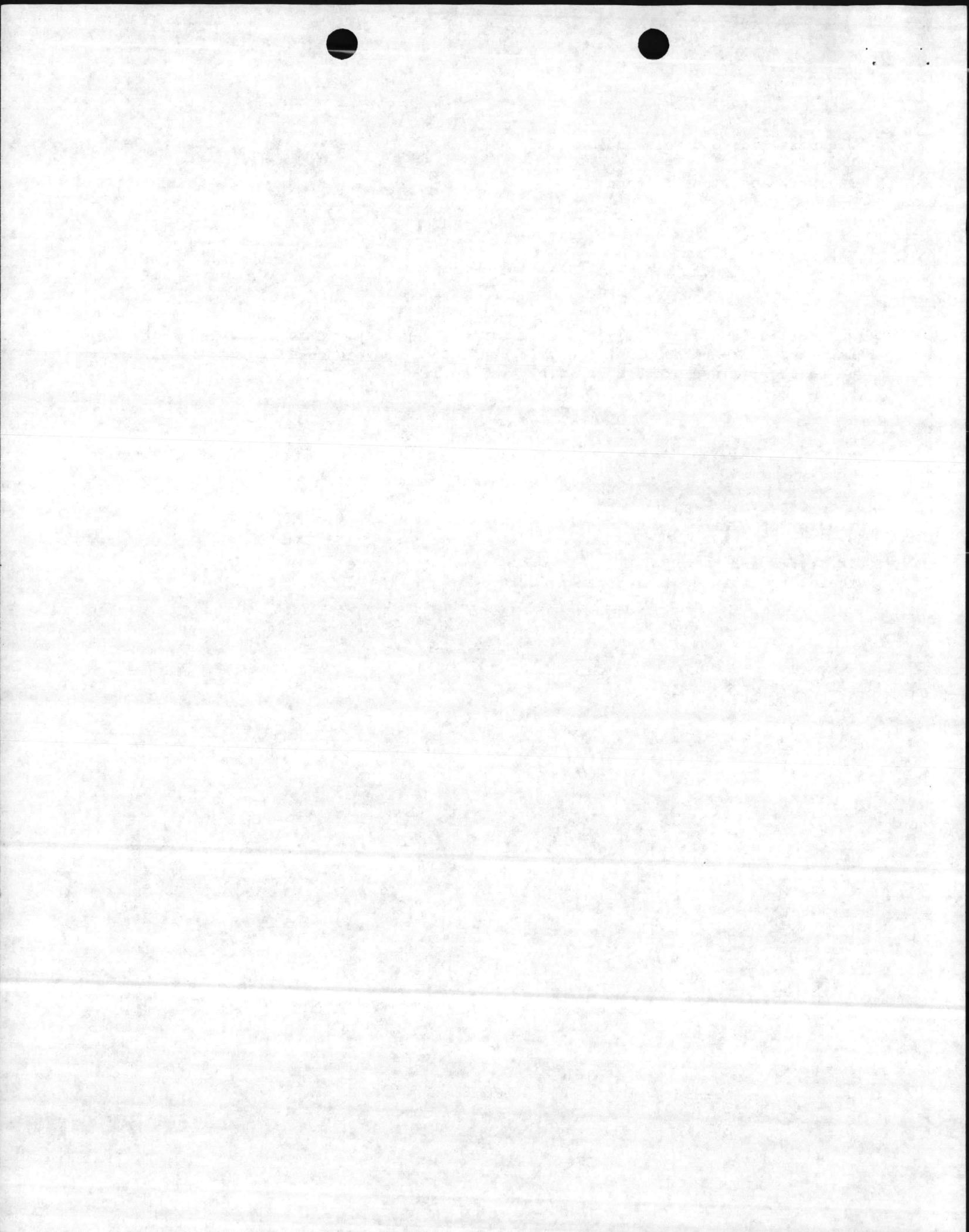
Blind Copy To:

✓ Director of NREA

BMO

Director M & R

Ground Structure General Foreman



Partial Results

JTC DATA REPORT # 87-441

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 136

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA - 23511-6287

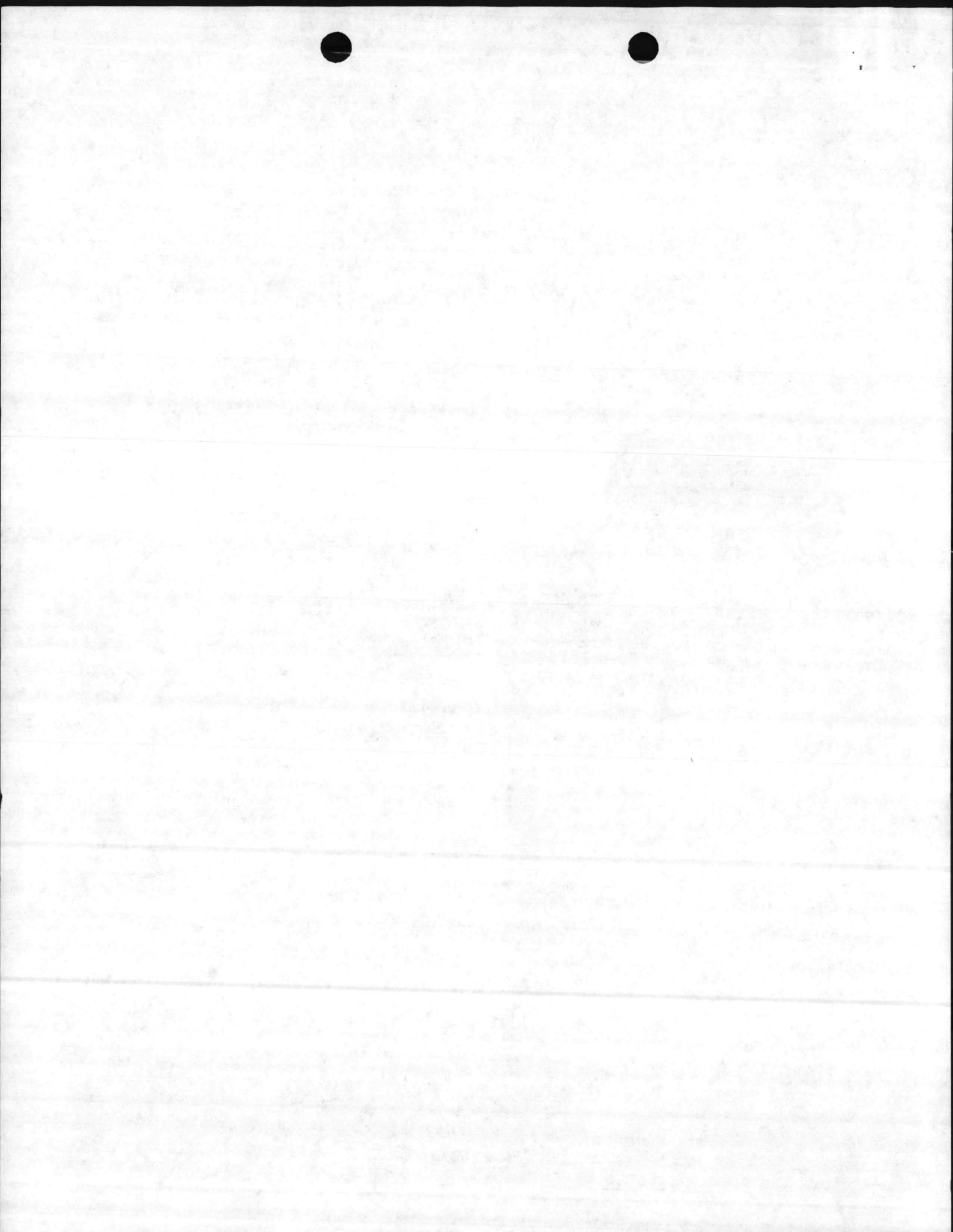
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

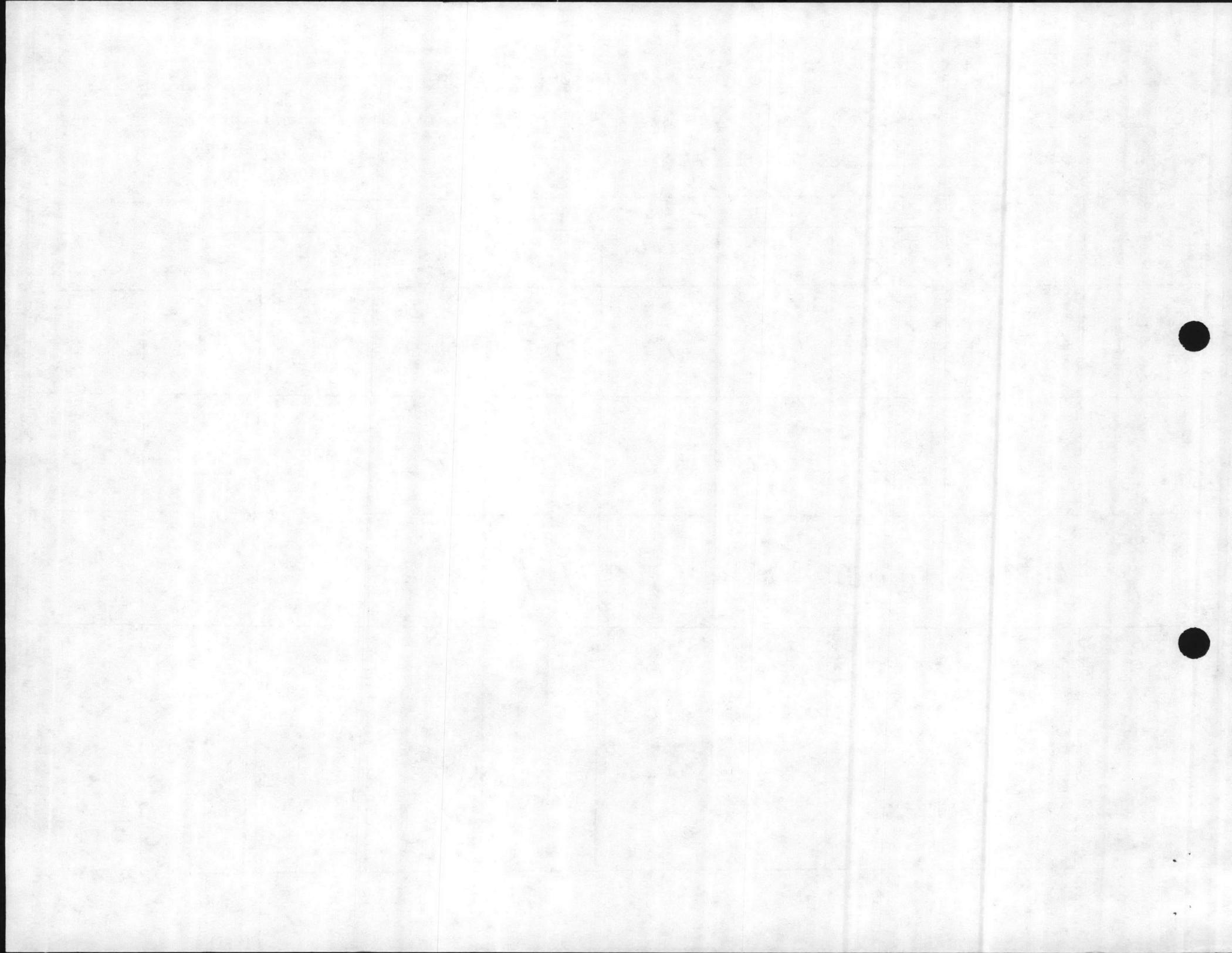
OCTOBER 5, 1987

*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director







Addendum

JTC DATA REPORT # 87-441

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 136

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

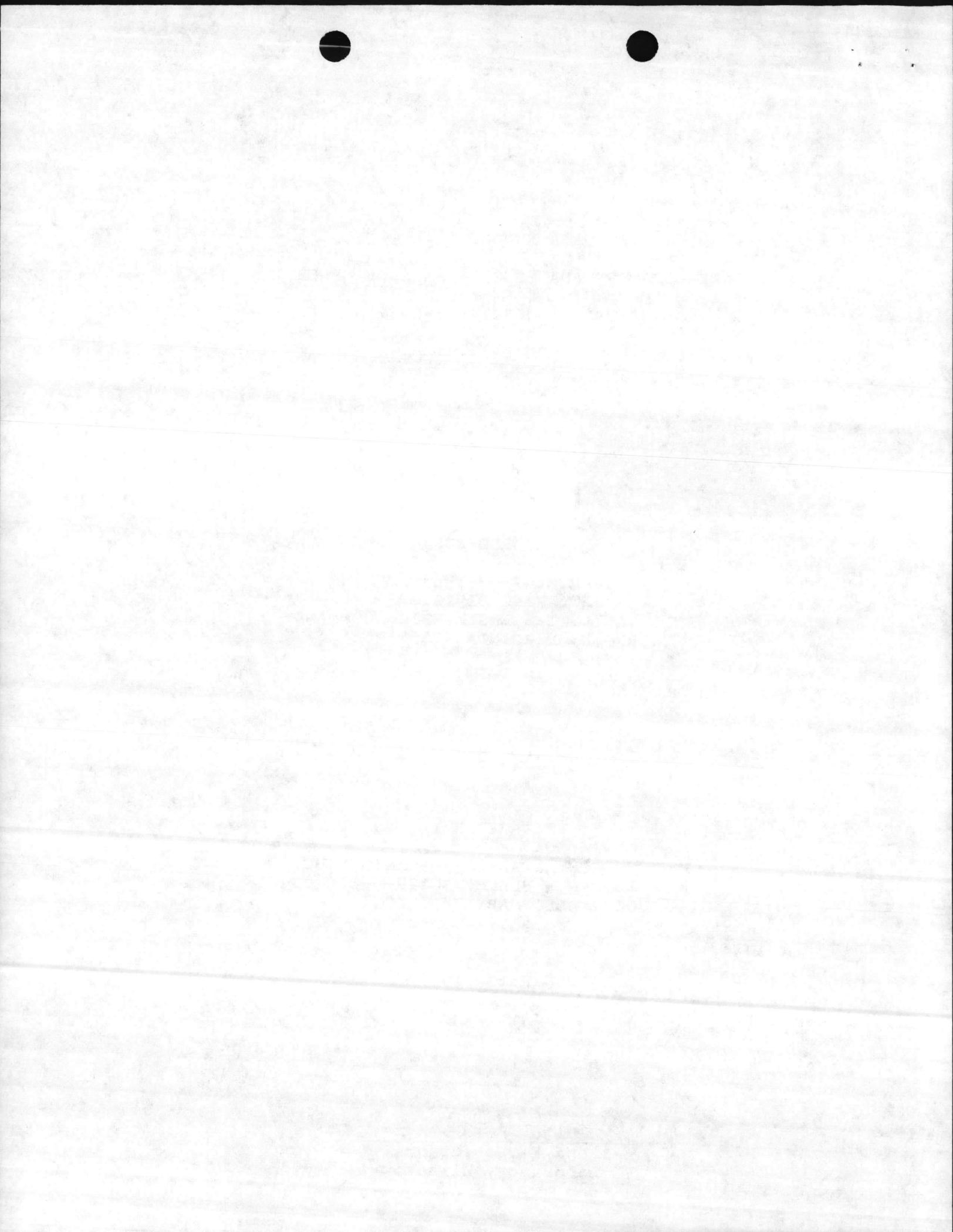
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

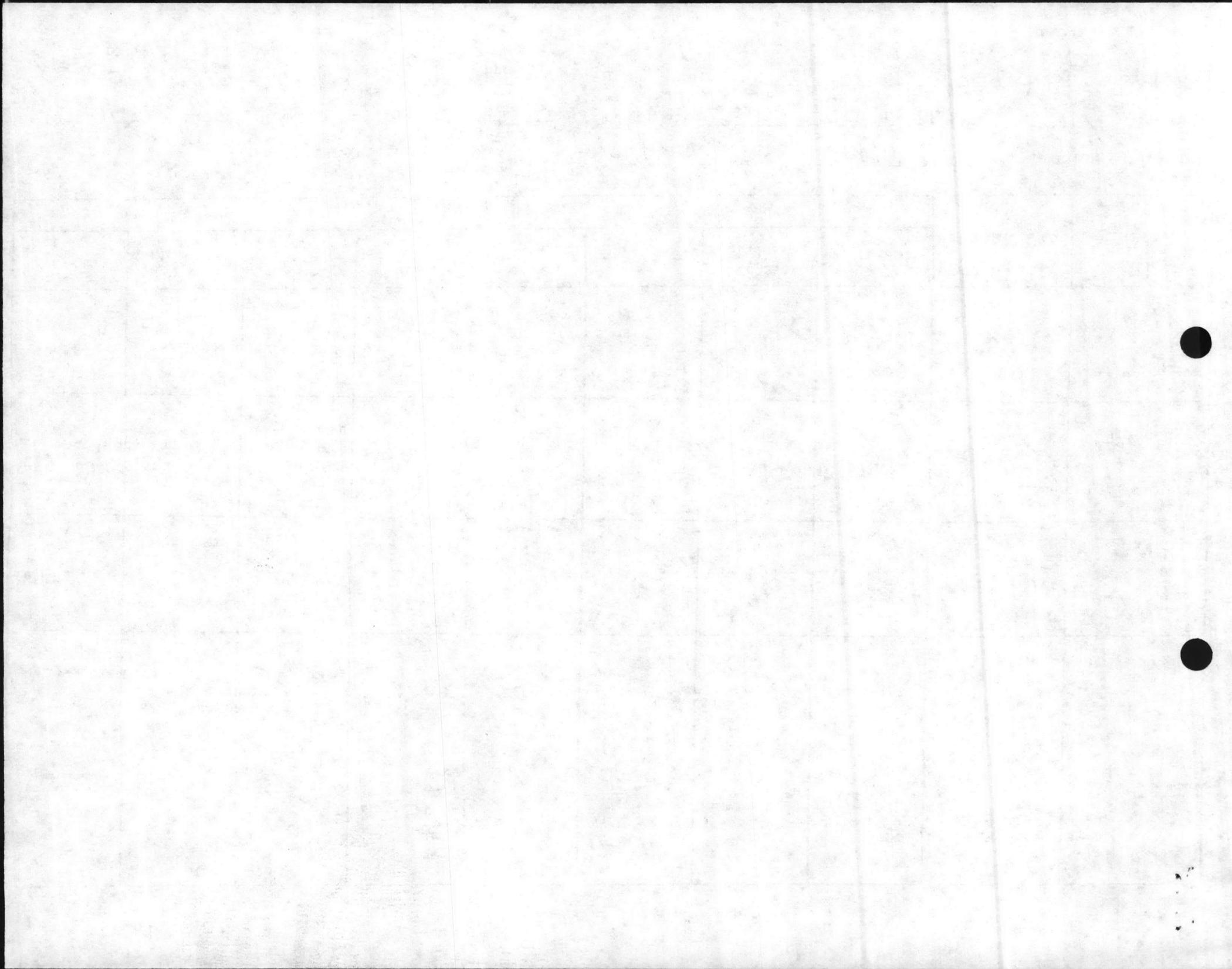
OCTOBER 12, 1987

*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director







Air Station

6241/2

NREAD

OCT 16 1987

From: Commanding General, Marine Corps Base, Camp Lejeune  
To: Defense Reutilization and Marketing Officer, Defense  
Logistics Agency, Lejeune, Camp Lejeune, NC 28542-5000

Subj: WASTE OIL STORAGE TANKS; ANALYSIS OF

Ref: (a) BO 6240.5  
(b) Dir NREAD ltr 6241/2 of 4 Jun 87

Encl: (1) JTC Environmental Consultants, Inc. Rept No. 87-444

1. The following data is forwarded for your information. Navy Sample ID No. 87-31 through 87-34 are additional data provided on the large waste oil tank at Bldg 45. The other parameters were provided in reference (b).

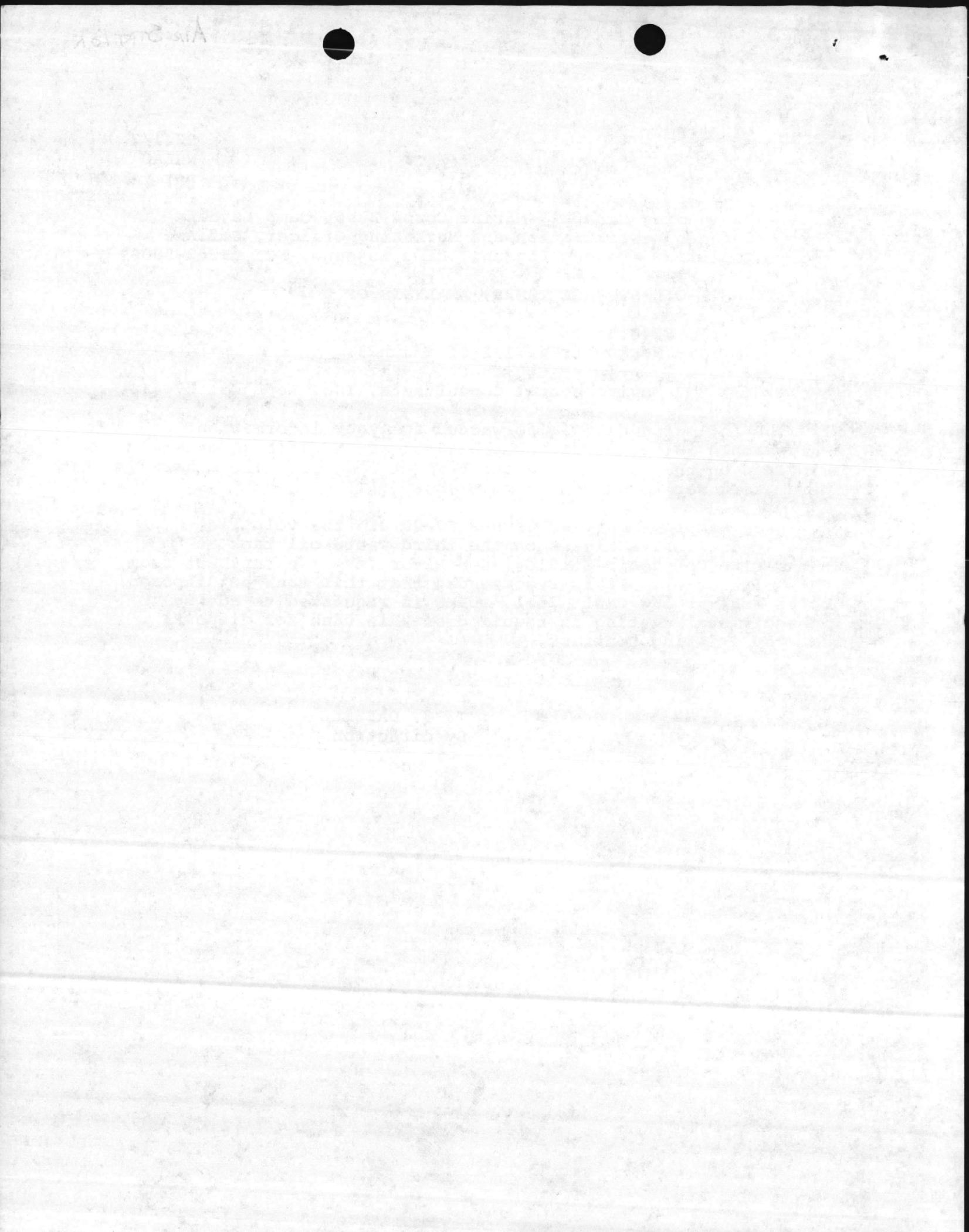
2. Navy Sample ID No. 87-89 and 87-90 are the volatile organic chemical analysis on the third waste oil tank at the Marine Corps Air Station, New River (the one furthest from the crash crew). It is recommended that this tank be disposed of as a hazardous waste fuel. DRMO is requested to advise if additional testing is required of this tank for disposal per the existing contract.

T. J. DALZELL  
By direction

Copy to:  
BMO  
CO MCAS NR

BCC:  
Lab

10/1/78



Partial Results

JTC DATA REPORT # 87-444

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 138

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

OCTOBER 7, 1987

*Ann E. Rosecrance*

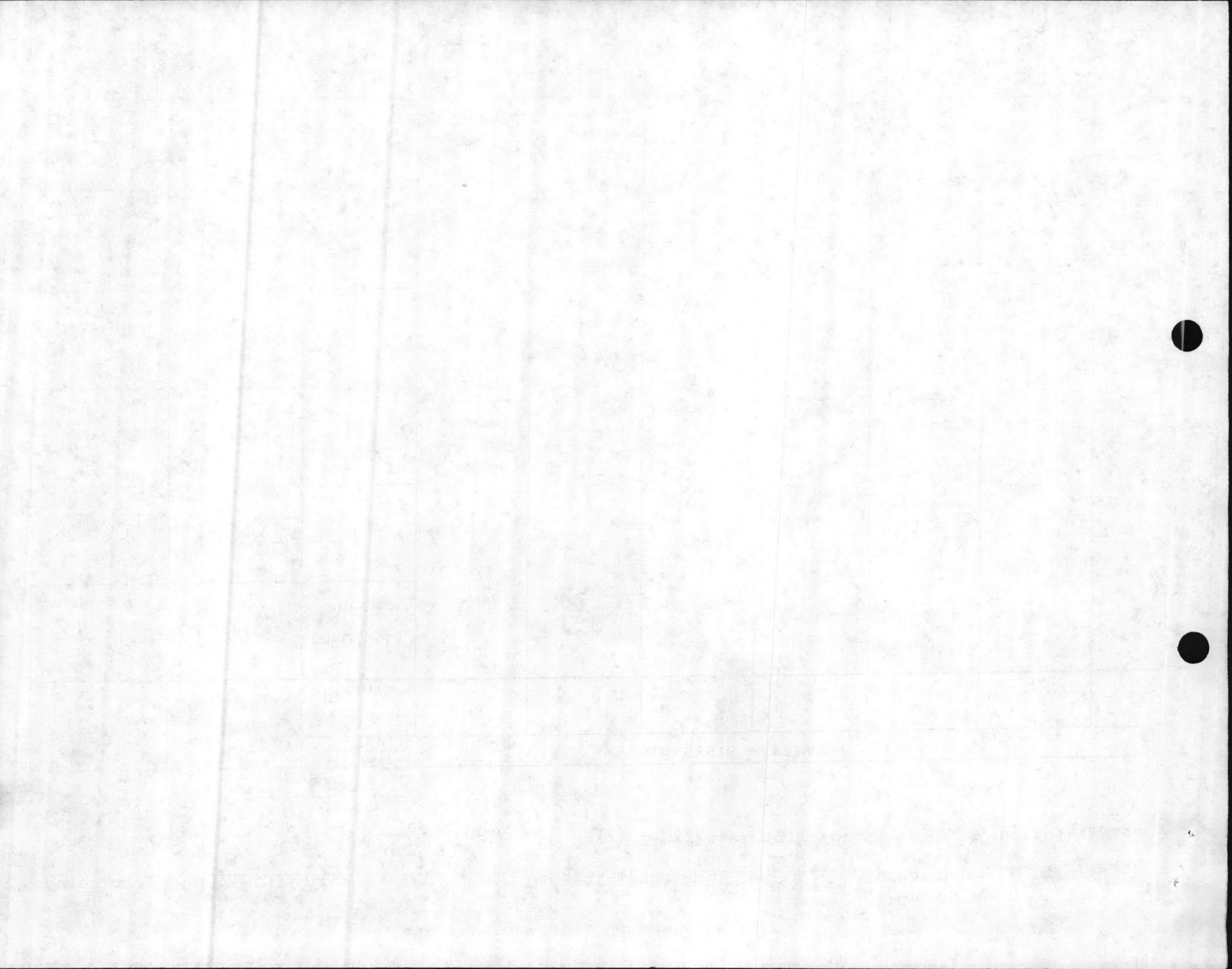
Ann E. Rosecrance  
Laboratory Director



JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 9-23-87 Turnaround: 10 days  
 Date: 10-7-87 Case No. 138 to Naval Facilities Engineering Command, Norfolk, Vir  
 JTC Data Report No. 87-444 Table 1 of 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		VOA + Freon						
87-31	61-0986	see attached sheet						
87-32	61-0987							
87-33	61-0988							
87-34	61-0989							
87-79 oil layer composite	61-0990							
87-80	61-0991							





J  
T

# C Environmental Consultants, Inc.

## PRIORITY POLLUTANT ANALYSIS DATA SHEET

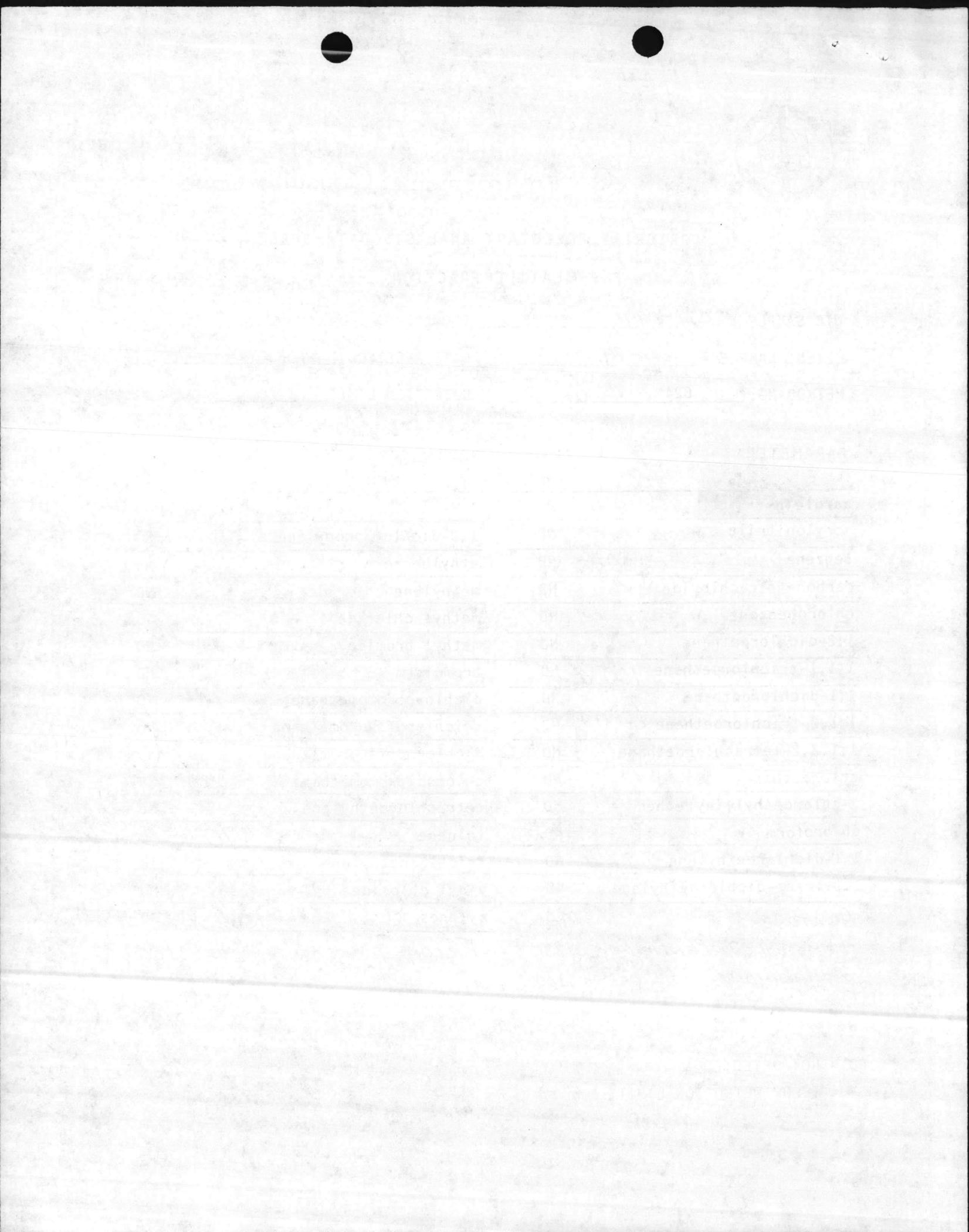
### VOLATILE FRACTION

JTC SAMPLE # 61-0990 COMPOSITE PROJECT NO. NF-61 #138  
CLIENT SAMPLE # 87-79 DATE RECEIVED 9-23-87  
METHOD NO. 624 DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mg/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene	200* <del>ND</del>	ethylbenzene	720 <del>ND</del>
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	100* <del>ND</del>	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene	970 <del>ND</del>
1,1-dichloroethylene	ND	trichloroethylene	50* <del>ND</del>
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1400	xylene	1500 <del>ND</del>
4-METHYL-2-PENTANONE (MIBK)	330	FREON	1600
2-HEXANONE	1100		

ND = NOT DETECTED

\* = BELOW DETECTION LIMIT



J  
T

C Environmental Consultants, Inc.

## PRIORITY POLLUTANT ANALYSIS DATA SHEET

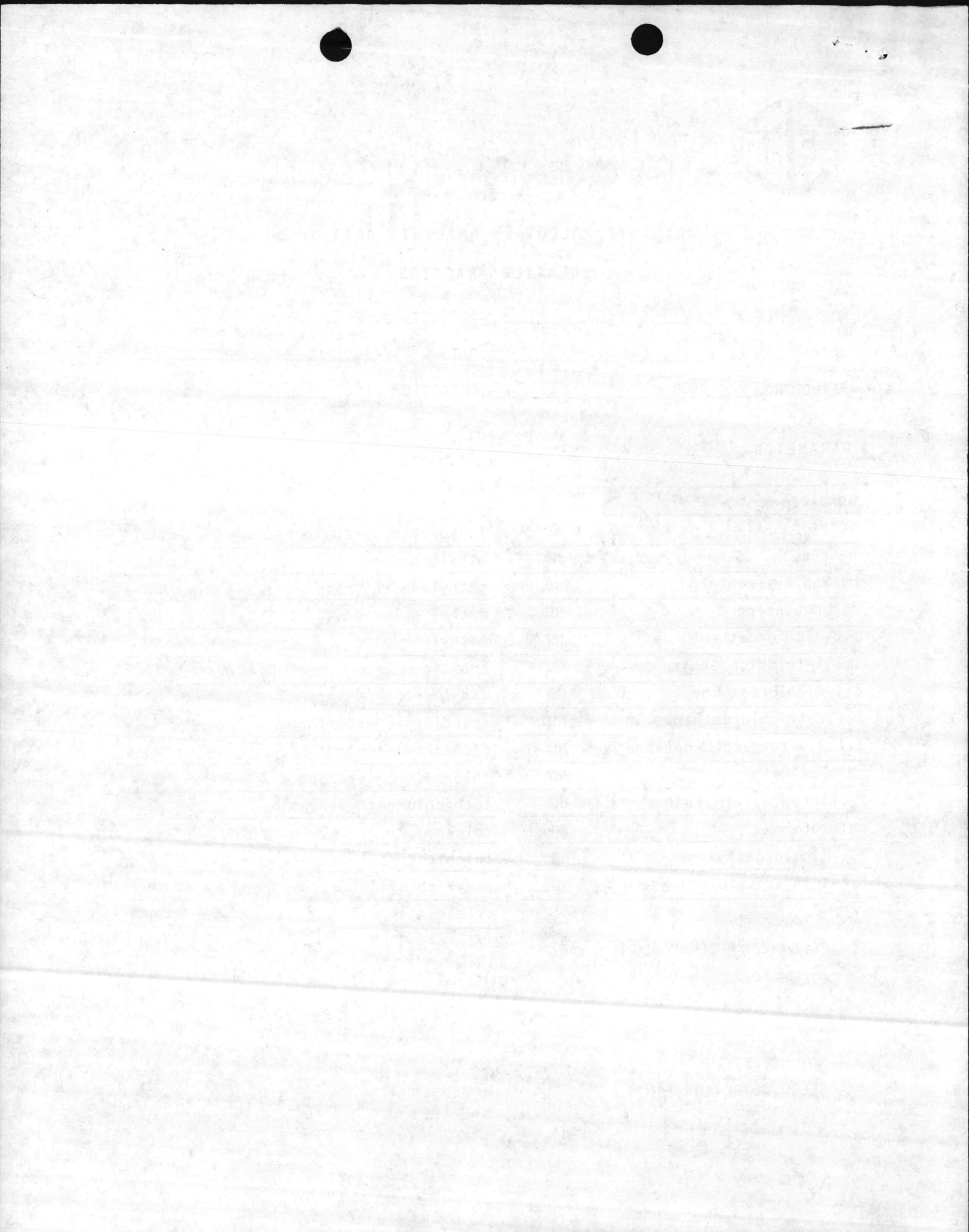
## VOLATILE FRACTION

JTC SAMPLE # 61-0991 PROJECT NO. NF-61 #138  
CLIENT SAMPLE # 87-80 DATE RECEIVED 9-23-87  
METHOD NO. 624 DETECTION LIMIT 250 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mg/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene	200 * <del>ND</del>	ethylbenzene	460 <del>ND</del>
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	ND	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene	1300 <del>ND</del>
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	2300	xylenes	2100 <del>ND</del>
4-METHYL-2-PENTANONE (MIBK)	500	FREON	600
2-HEXANONE	1500		

ND = NOT DETECTED

\* = BELOW DETECTION LIMIT





UNITED STATES MARINE CORPS  
NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION  
MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542-5001



IN REPLY REFER TO:  
6241/2  
NREAD  
14 Jul 87

From: Director, Natural Resources and Environmental Affairs  
Division, Marine Corps Base, Camp Lejeune  
To: Base Maintenance Officer, Marine Corps Base, Camp Lejeune

Subj: WASTE OIL STORAGE TANKS; ANALYSIS OF

Ref: (a) BO 6240.5

Encl: (1) JTC Environmental Consultants, Inc., Report #87-247  
(2) JTC Environmental Consultants, Inc., Report #87-247  
Addendum

1. On 28 May 1987, the four waste oil storage tanks at Holcomb Boulevard, two of the three tanks at Marine Corps Air Station, New River, and three of the six tanks at Tarawa Terrace, were sampled by NREAD. Sample numbers 87-49 through 87-52 are the Holcomb Boulevard tanks S-888, S-889, S-890, and S-891, respectively. Sample number 87-53 is the Marine Corps Air Station, New River tank in the middle and sample number 87-54 is the Marine Corps Air Station, New River tank closest to the crash crew. Sample numbers 87-55 through 87-57 are the tanks at Tarawa Terrace, STT-61, STT-62, and STT-63 respectively.

2. Based on data contained in enclosures (1) and (2), the contents of S-888, S-890 and STT-63 are specification used oil. The rest of the tanks, due to the levels of Total Organic Halogen (TOX), are regulated as a hazardous waste fuel by regulations outlined in the reference. The majority of the subject waste oil appears to be suitable for burning for recovery of energy based on information provided by Oldover Corporation, Aquadale, North Carolina.

3. It is recommended that the subject oil be turned in to DRMO for disposal. Point of contact is Danny Sharpe, extension 2083.

J. I. WOOTEN

Copy to:  
DRMO  
AC/S, FAC  
EC&MS (2)

~~FOR~~ ENCLOSURES SEE ~~HB TANKS~~ ATTACHED



Partial Results

JTC DATA REPORT # 87-247

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 42

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

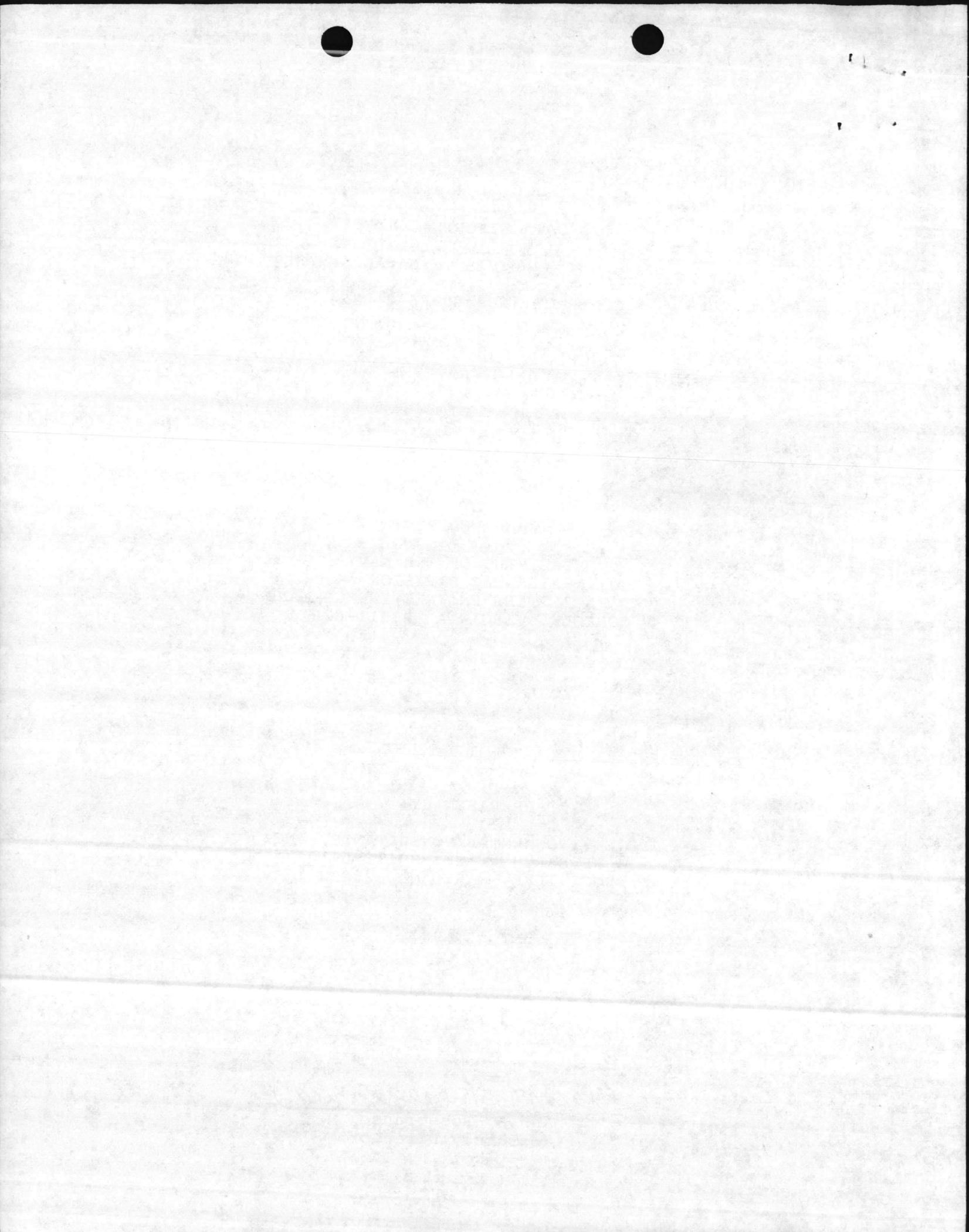
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

JULY 6, 1987

*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director



Location: Camp Lejeune Date of Receipt: 6-5-87 Turnaround: routineDate: 7-6-87 Case No. 42 to Naval Facilities Engineering Command, Norfolk, VirginiaJTC Data Report No. 87-247 Table 1

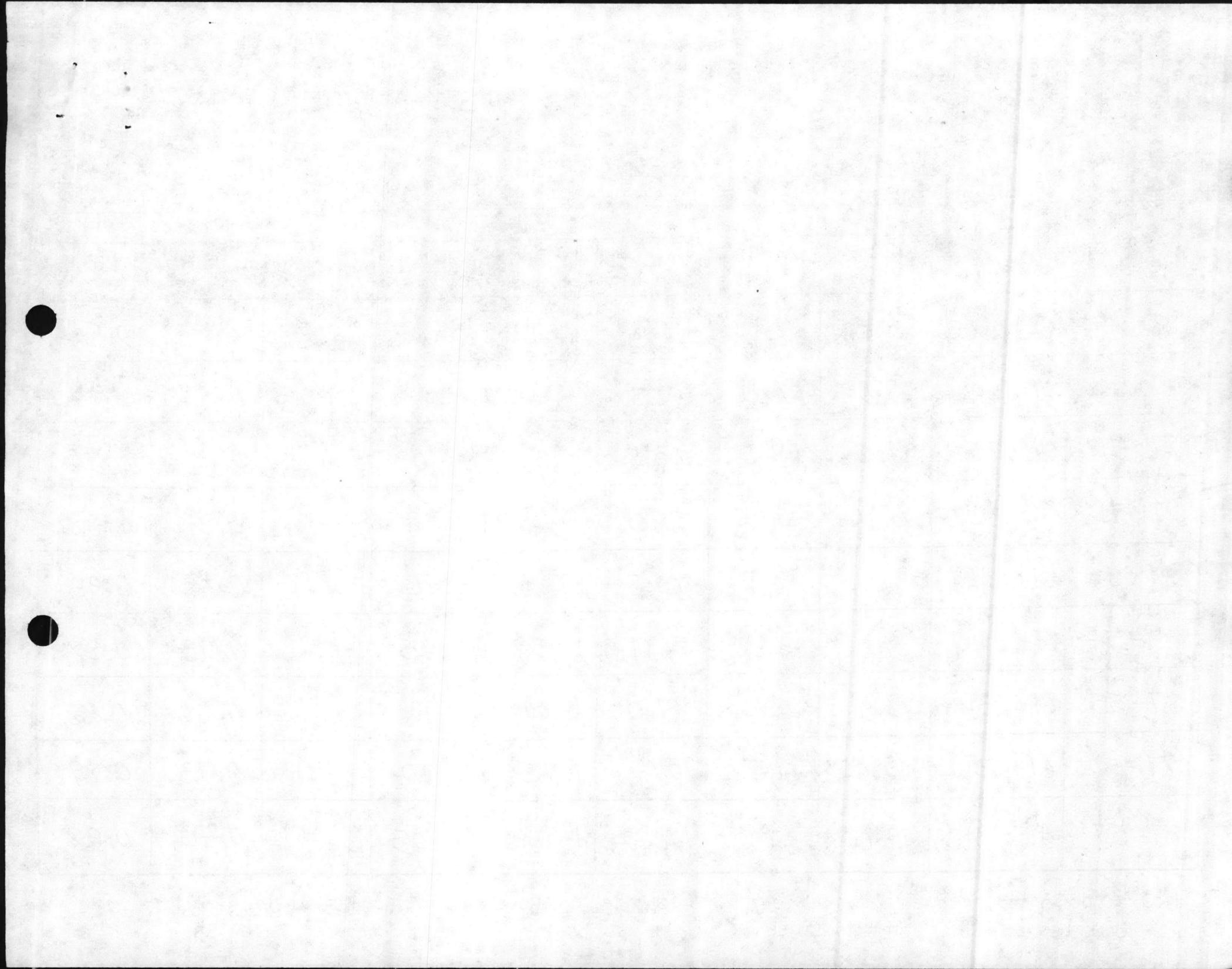
## Oil Phase

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Water %	BS+W %	Viscosity @100°F, SUS	BTU per lb.	TOX %	Flashpoint °C	Sp. Gravity <sup>a</sup> g/ml	Sp. Gravity <sup>b</sup> g/ml
87-49	61-0305	19.5	19.5	93.6	15,550	<0.05	N.O. boiled at 70°	0.73	0.92
87-50	61-0306	13.5	20.0	100.8	16,500	0.20	N.O. boiled at 50°	0.77*	—
87-51	61-0307	17.6	24.0	103.8	15,500	<0.05	N.O. boiled at 45°	0.72	0.96
87-52	61-0308	0.76	0.80	53.0	19,300	0.12	35	0.73	0.88
87-53	61-0309	8.4	13.5	100.8	17,500	0.16	40	0.73	0.93
87-54	61-0310	8.1	13.0	56.1	17,500	0.25	35	0.75	0.88
87-55	61-0311	18.4	23.0	97.0	15,000	0.13	N.O. boiled at 45°	0.76	0.98
87-56	61-0312	12.0	17.5	104.6	16,650	0.22	40	0.73	0.89
87-57	61-0313	19.6	22.0	120.2	15,100	<0.05	N.O. boiled at 45°	0.76	0.98

N.O. = not observed

a = top layer b = bottom layer

\* sample consisted of only one oil layer



JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 6-5-87 Turnaround: routine

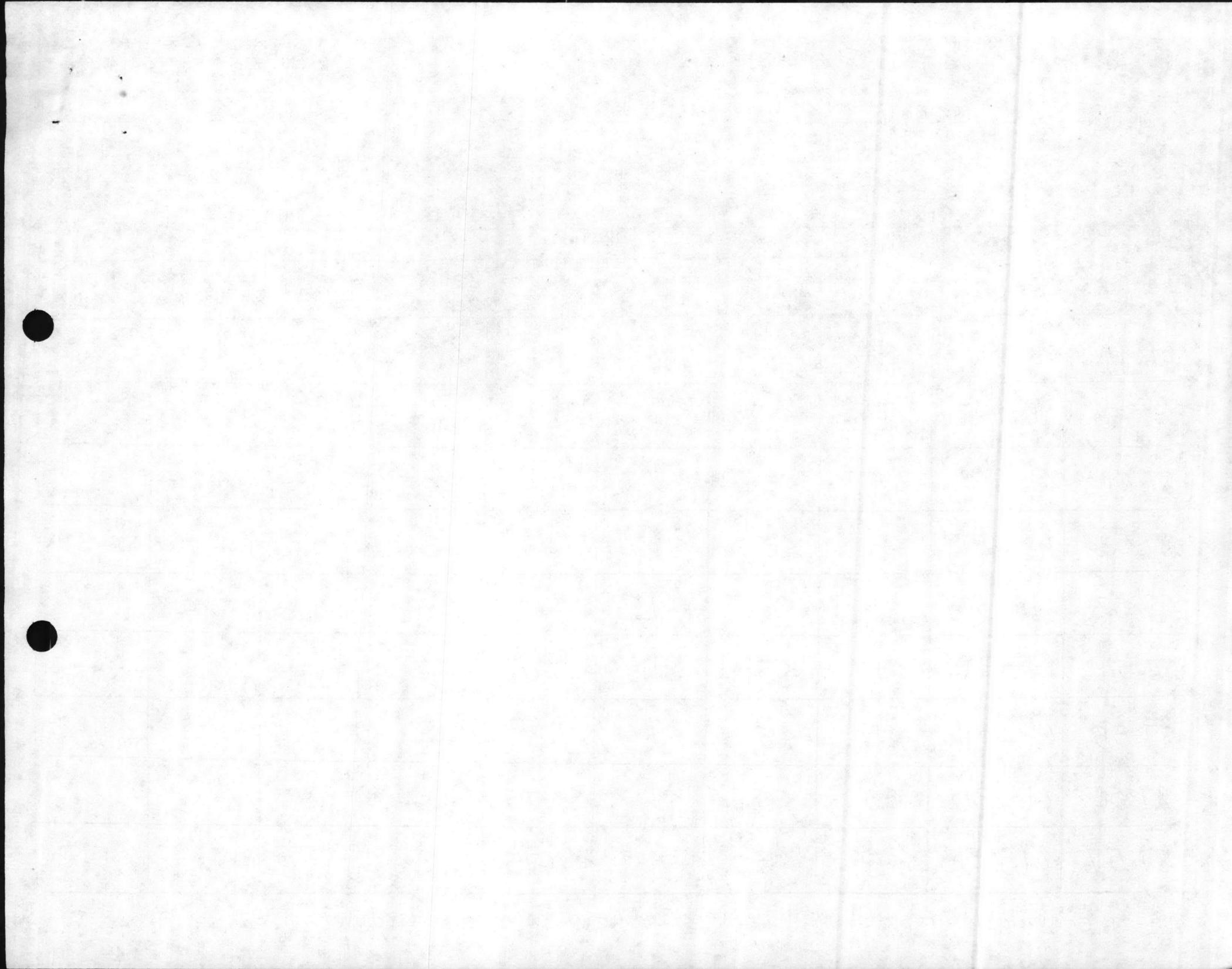
Date: 7-6-87 Case No. 42 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-247 Table 2

Oil Phase

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		PCB ug/g	As mg/kg	Cd mg/kg	Cr mg/kg	Pb mg/kg		
87-49	61-0305	<5	NA	NA	NA	NA		
87-50	61-0306	<5	<5	<1	<0.75	30		
87-51	61-0307	<5	<5	1.1	2.2	59		
87-52	61-0308	<5	<5	<1	1.6	23		
87-53	61-0309	<5	<5	<1	1.6	35		
87-54	61-0310	<10	<5	<1	2.6	26		
87-55	61-0311	<5	<5	<1	1.3	26		
87-56	61-0312	<5	<5	<1	<0.75	8.2		
87-57	61-0313	<5	<5	<1	<0.75	28		

NA- not available, results will be reported in a report addendum



JTC Environmental Consultants, Inc.

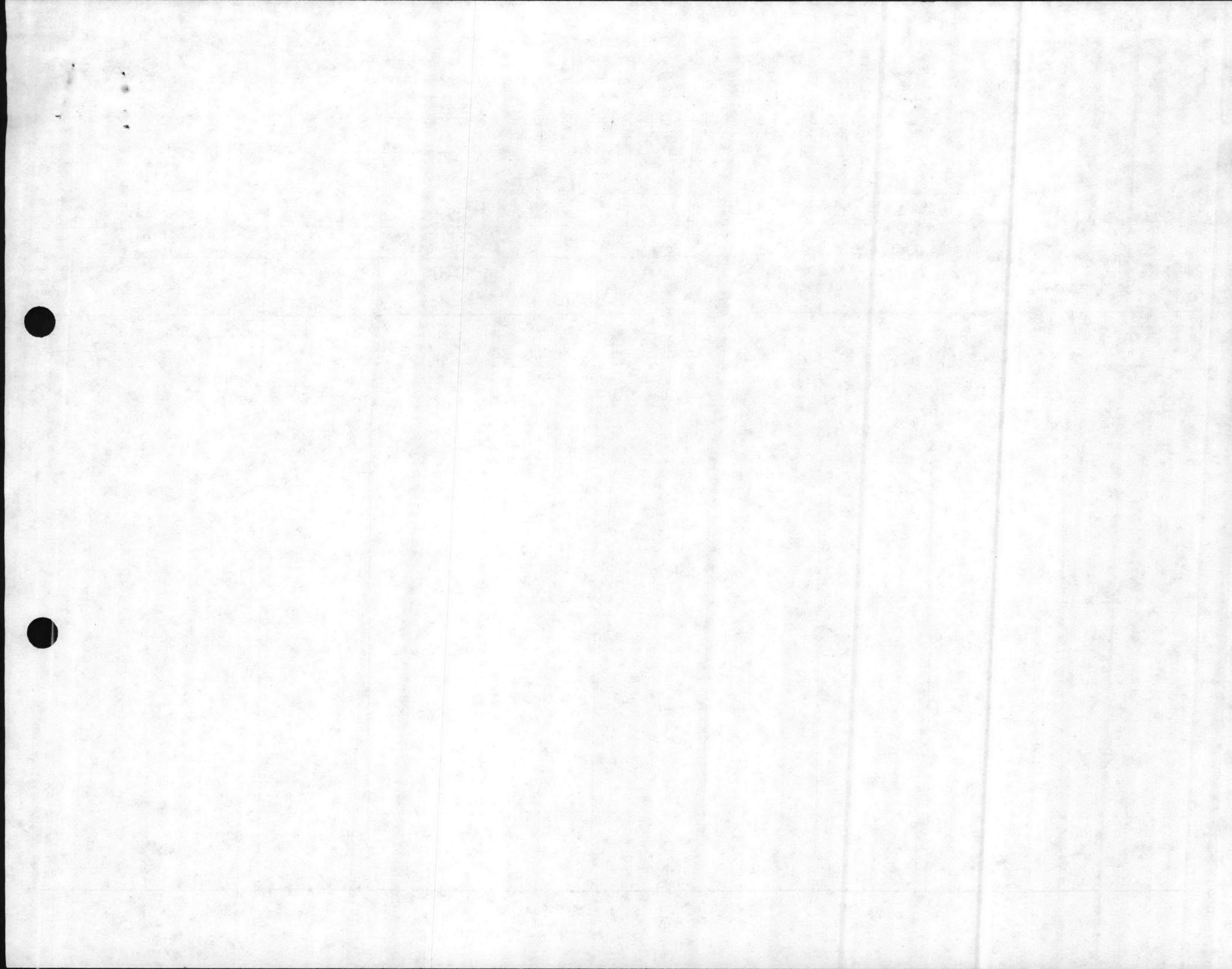
Location: Camp Lejeune Date of Receipt: 6-5-87 Turnaround: routine

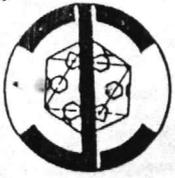
Date: 7-6-87 Case No. 42 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-247 Table 3

Water Phase Composite

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		TOX ug/L	Phenols mg/L	VOA	As ug/L	Cd ug/L	Cr ug/L	Pb ug/L
87-49/ 87-57 composite	61-0305/ 61-0313	814	6.8	See attached sheet	498	<20	72	155





J  
T  
C

# Environmental Consultants, Inc.

## PRIORITY POLLUTANT ANALYSIS DATA SHEET

### VOLATILE FRACTION

JTC SAMPLE # 61-0305/0313 Composite PROJECT NO. NF-61 #42  
 CLIENT SAMPLE # 87-49787-57 Composite DATE RECEIVED 6/5/87  
 METHOD NO. 624 DETECTION LIMIT 500 ug/L

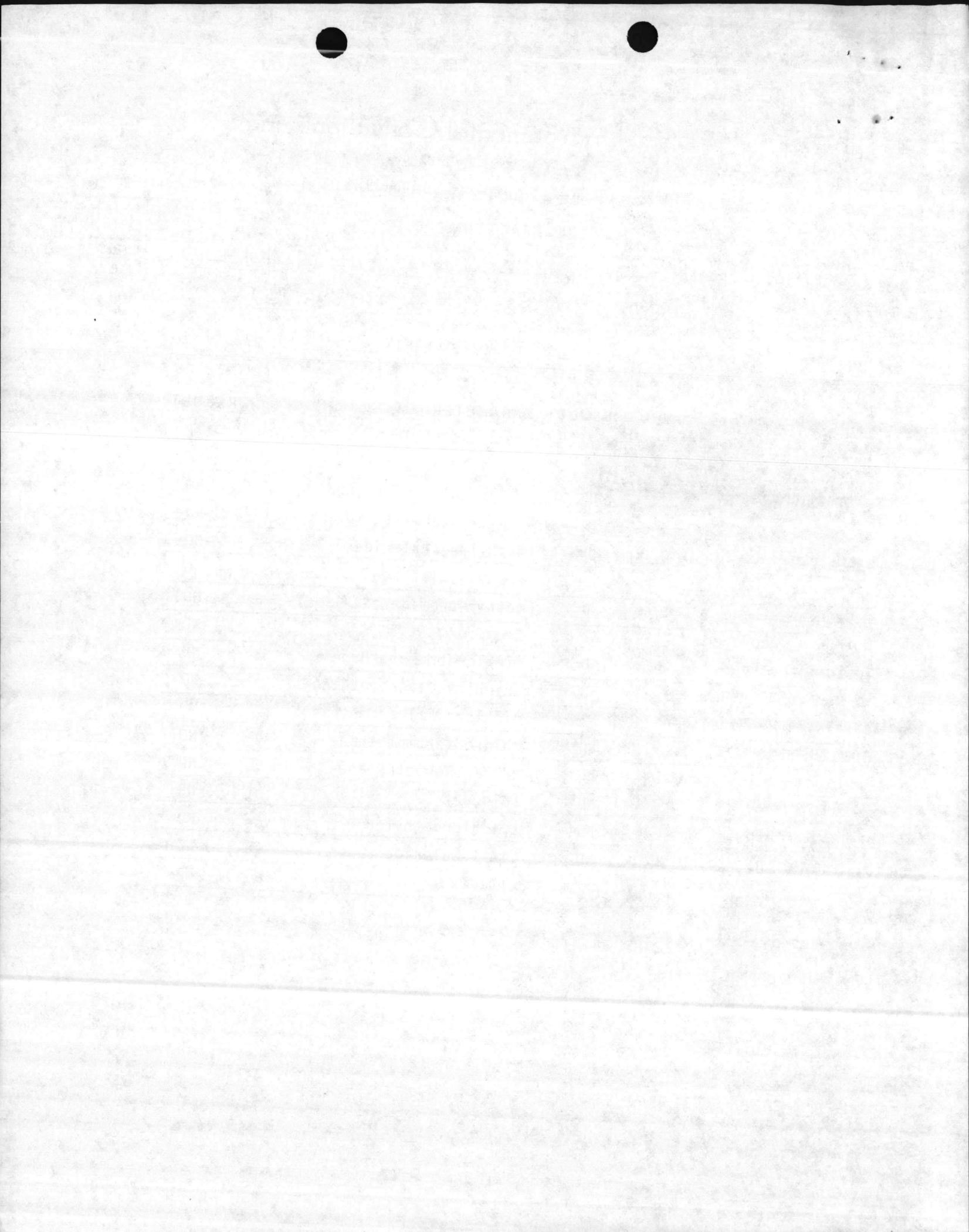
PARAMETER	RESULT	PARAMETER	RESULT
	ug/L		ug/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene	540 <del>ND</del>	ethylbenzene	110* <del>ND</del>
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	230* <del>ND</del>	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	ND
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene	990 <del>ND</del>
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	620 <del>ND</del>

Acetone 70,000  
 MEK (2-Butanone) 13,000  
 MIBK (4-methyl-2-pentanone) 1200  
 1,1,2-Trichlorotrifluoroethane (freon)

present, concentration not available

ND = NOT DETECTED

\* = BELOW DETECTION LIMIT



Addendum

JTC DATA REPORT # 87-247

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 42

PREPARED FOR:

DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511-6287

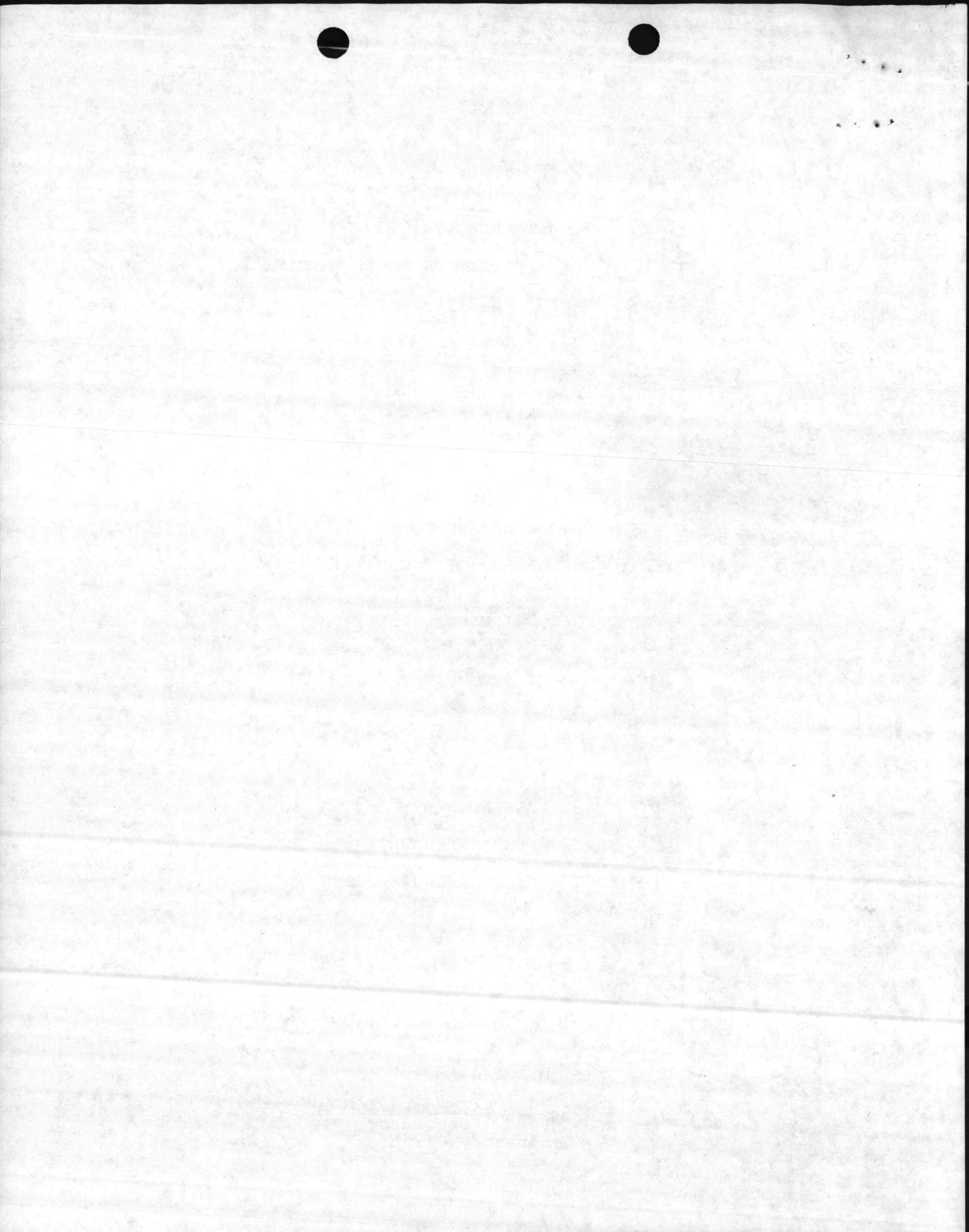
PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

JULY 8, 1987

*Ann E Rosecrance*

Ann E. Rosecrance  
Laboratory Director



Location: Camp Lejeune Date of Receipt: 6-5-87 Turnaround: routine

Date: 7-8-87 Case No. 42 Add to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-247 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER					
		As mg/kg	Cd mg/kg	Cr mg/kg	Pb mg/kg		
87-49	61-0305	<5	2.0	1.7	75		

12  
3



27 MAY 1986

REPORT # 283  
LABORATORY ANALYSIS ON  
NAVAL SAMPLES  
(A/E CONTRACT N62470-84-B-6932)  
JTC REPORT # 86-275

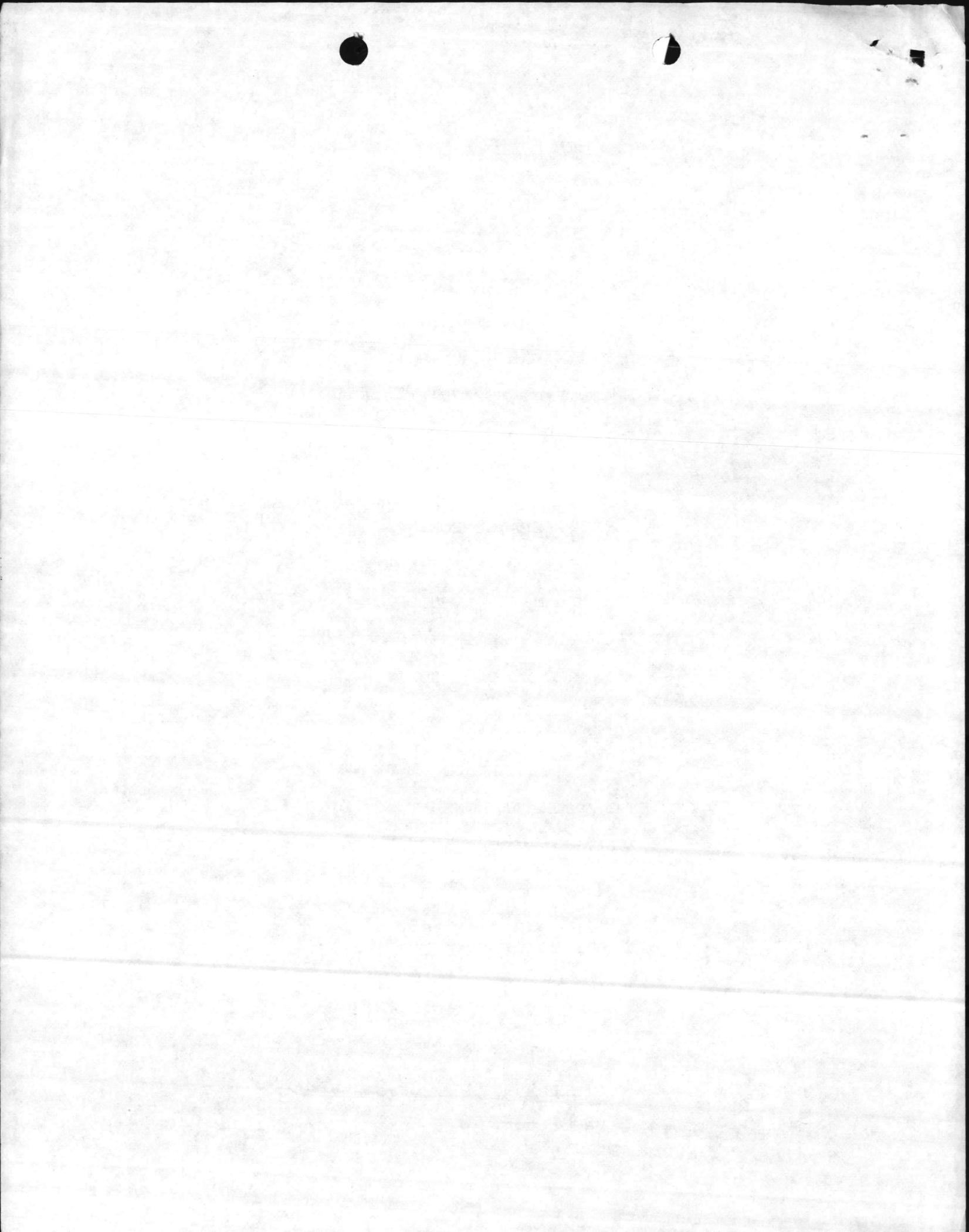
PREPARED FOR:  
DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VA 23511

PREPARED BY:  
JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

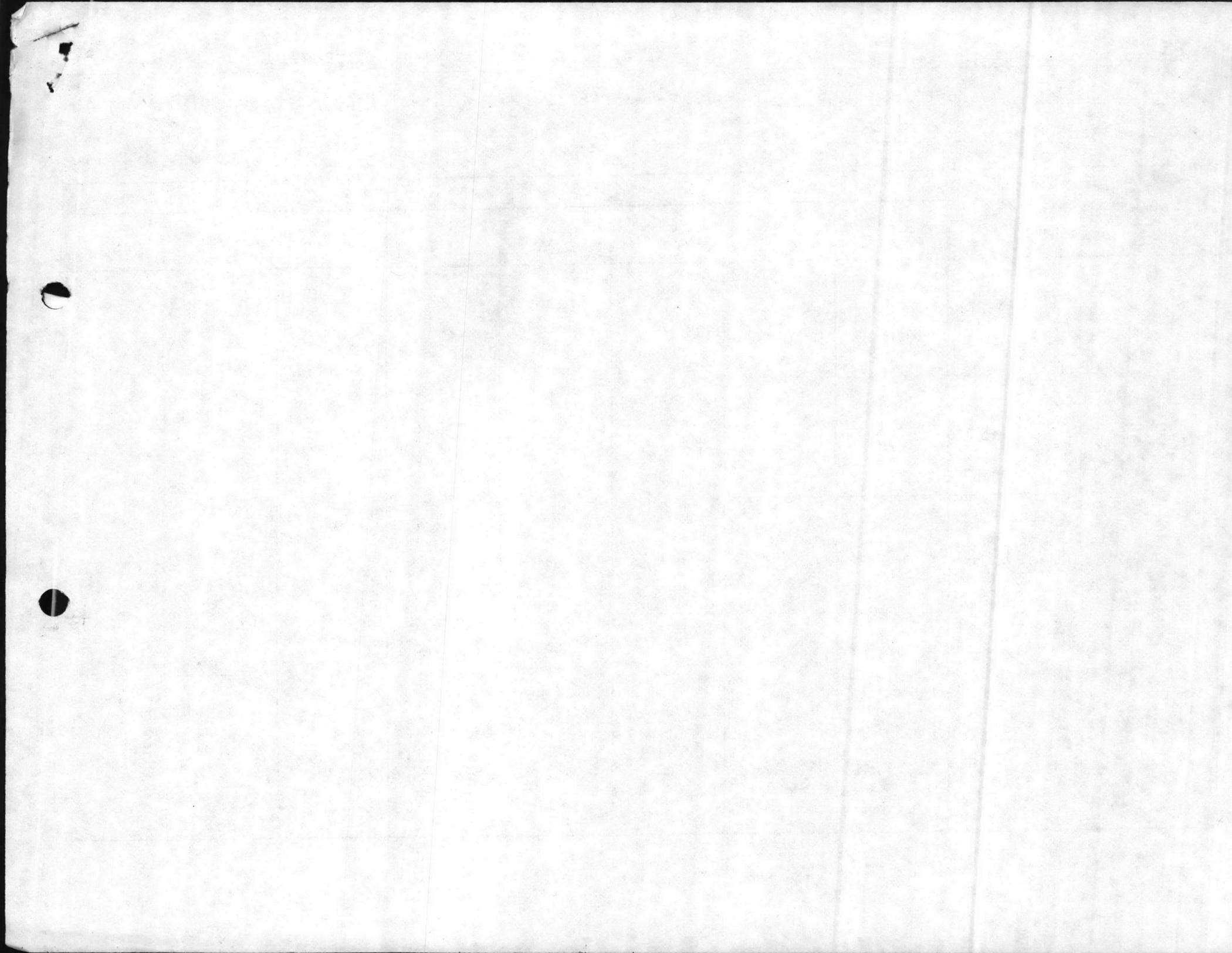
MAY 20, 1986

*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director







FROM (Show telephone number in addition to address)

LANTAN COOP 114 AN 565-2932

DATE

21 APR 86

SUBJECT

~~0000~~ TEST RESULTS

SERIAL OR FILE NO.

6280 1142896

TO:

MCB CAMP UTEVUNG  
 BASE MAINTENANCE  
 DIVISION GENERAL AFFAIRS

REFERENCE

ENCLOSURE

(1) JTC REPORT # 264

VIA:

ENDORSEMENT ON

FORWARDED  RETURNED  FOLLOW-UP, OR TRACER  REQUEST  SUBMIT  CERTIFY  MAIL  FILE

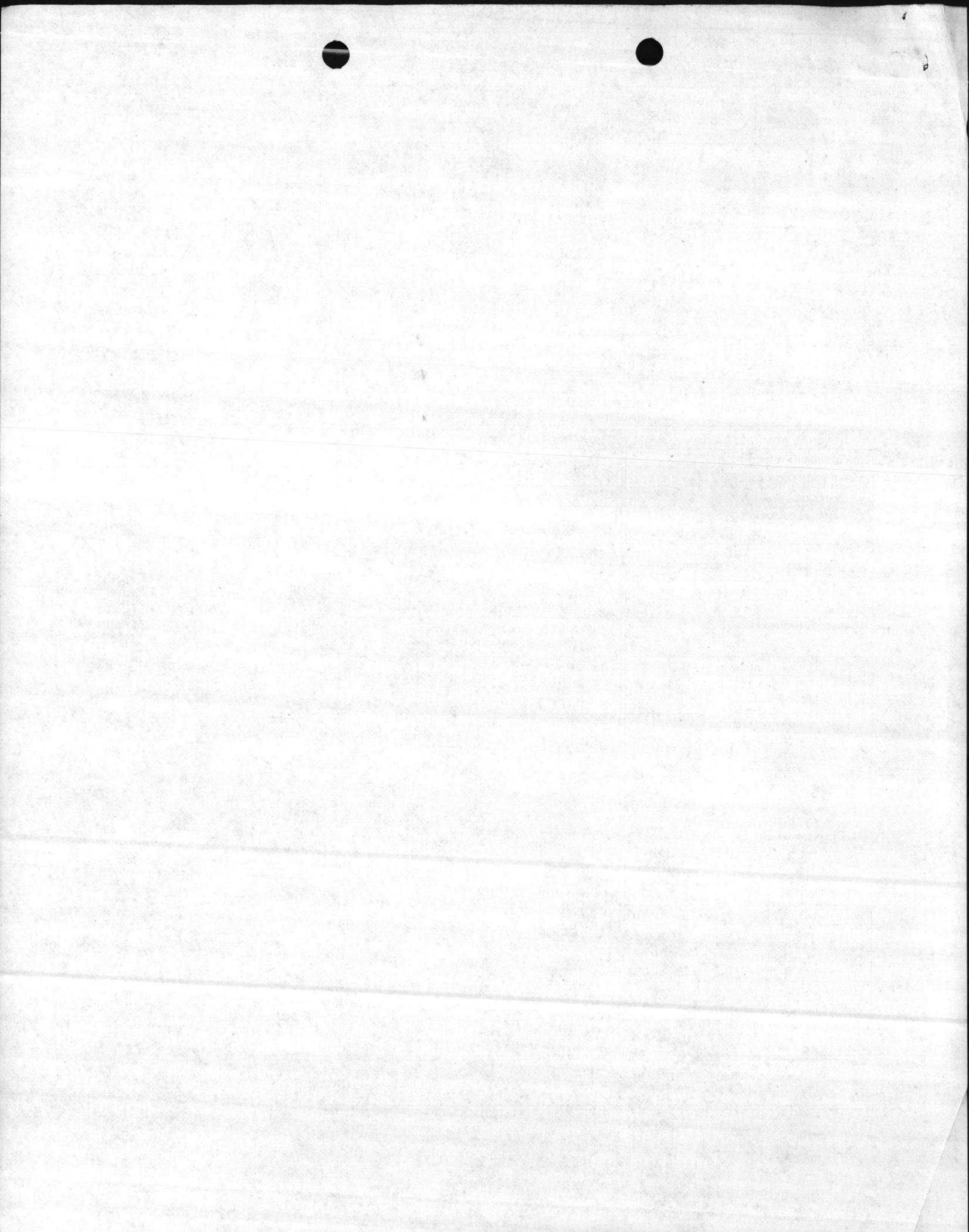
GENERAL ADMINISTRATION		CONTRACT ADMINISTRATION		PERSONNEL	
<input checked="" type="checkbox"/> FOR APPROPRIATE ACTION UNDER YOUR COGNIZANCE INFORMATION		NAME & LOCATION OF SUPPLIER OF SUBJECT ITEMS		REPORTED TO THIS COMMAND:	
APPROVAL RECOMMENDED <input type="checkbox"/> YES <input type="checkbox"/> NO		SUBCONTRACT NO. OF SUBJECT ITEM		DETACHED FROM THIS COMMAND	
<input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		APPROPRIATION SYMBOL, SUBHEAD, AND CHARGEABLE ACTIVITY		OTHER	
COMMENT AND/OR CONCURRENCE CONCUR		SHIPPING AT GOVERNMENT EXPENSE <input type="checkbox"/> YES <input type="checkbox"/> NO			
LOANED, RETURN BY:		A CERTIFICATE, VICE BILL OF LADING			
SIGN RECEIPT & RETURN REPLY TO THE ABOVE BY:		COPIES OF CHANGE ORDERS, AMENDMENT OR MODIFICATION			
REFERENCE NOT RECEIVED		CHANGE NOTICE TO SUPPLIER			
SUBJECT DOCUMENT FORWARDED TO:		STATUS OF MATERIAL ON PURCHASE DOCUMENT			
SUBJECT DOCUMENT RETURNED FOR:		REMARKS (Continue on reverse)			
SUBJECT DOCUMENT HAS BEEN REQUESTED, AND WILL BE FORWARDED WHEN RECEIVED					
COPY OF THIS CORRESPONDENCE WITH YOUR REPLY					
ENCLOSURE NOT RECEIVED					
ENCLOSURE FORWARDED AS REQUESTED					
ENCLOSURE RETURNED FOR CORRECTION AS INDICATED					
CORRECTED ENCLOSURE AS REQUESTED					
REMOVE FROM DISTRIBUTION LIST					
REDUCE DISTRIBUTION AMOUNT TO:		SIGNATURE & TITLE			

*David Gordon* 1142

COPY TO:

114, 1145, 115

CLASSIFICATION (UNCLASSIFIED when detached from enclosures, unless otherwise indicated)



REPORT # 264  
LABORATORY ANALYSIS ON  
NAVAL SAMPLES  
(A/E CONTRACT N62470-84-B-6932)  
JTC REPORT # 86-194

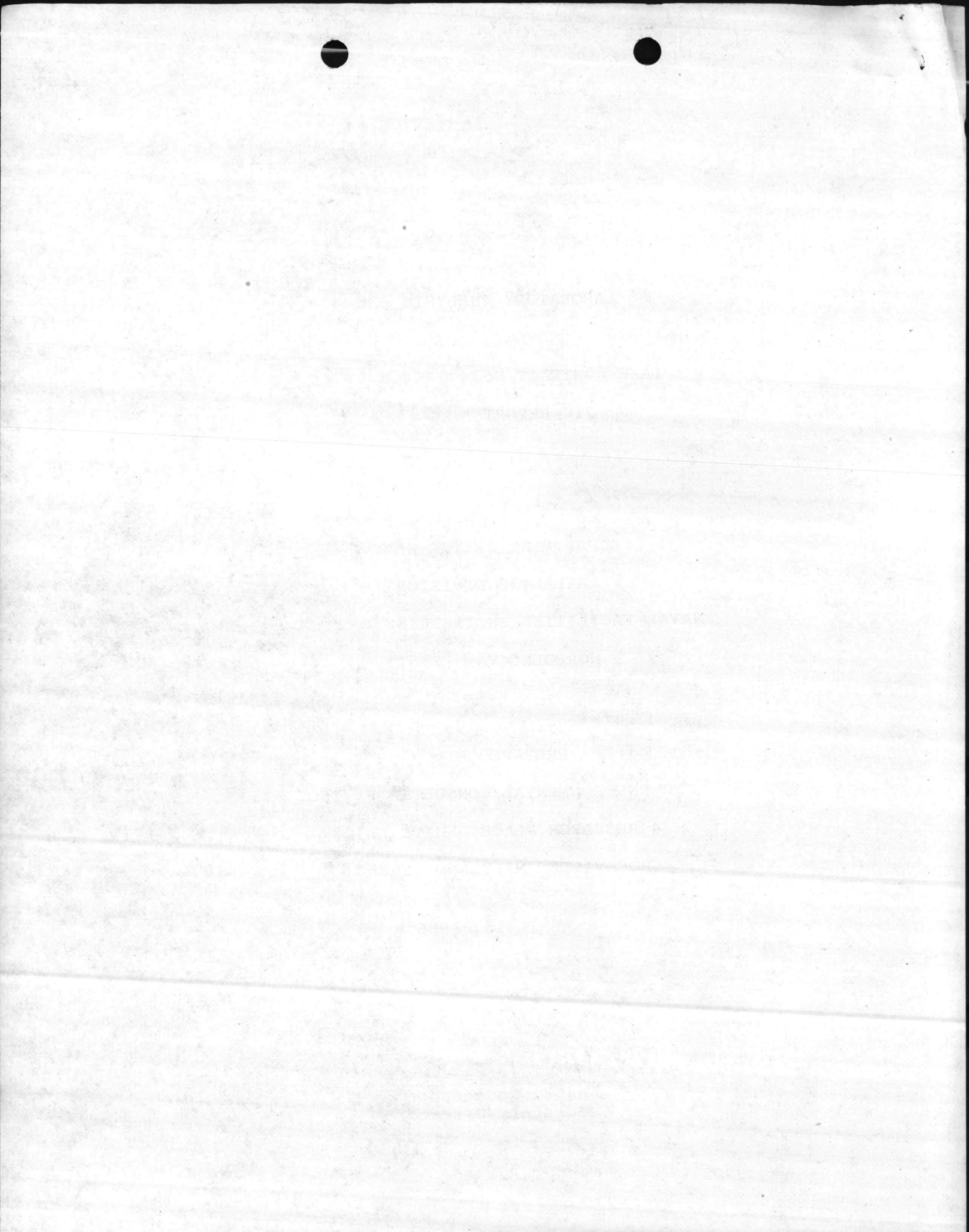
PREPARED FOR:  
DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VA 23511

PREPARED BY:  
JTC ENVIRONMENTAL CONSULTANTS, INC.  
4 RESEARCH PLACE, SUITE L-10  
ROCKVILLE, MARYLAND 20850

APRIL 15, 1986

*Ann E. Rosecrance*

Ann E. Rosecrance  
Laboratory Director

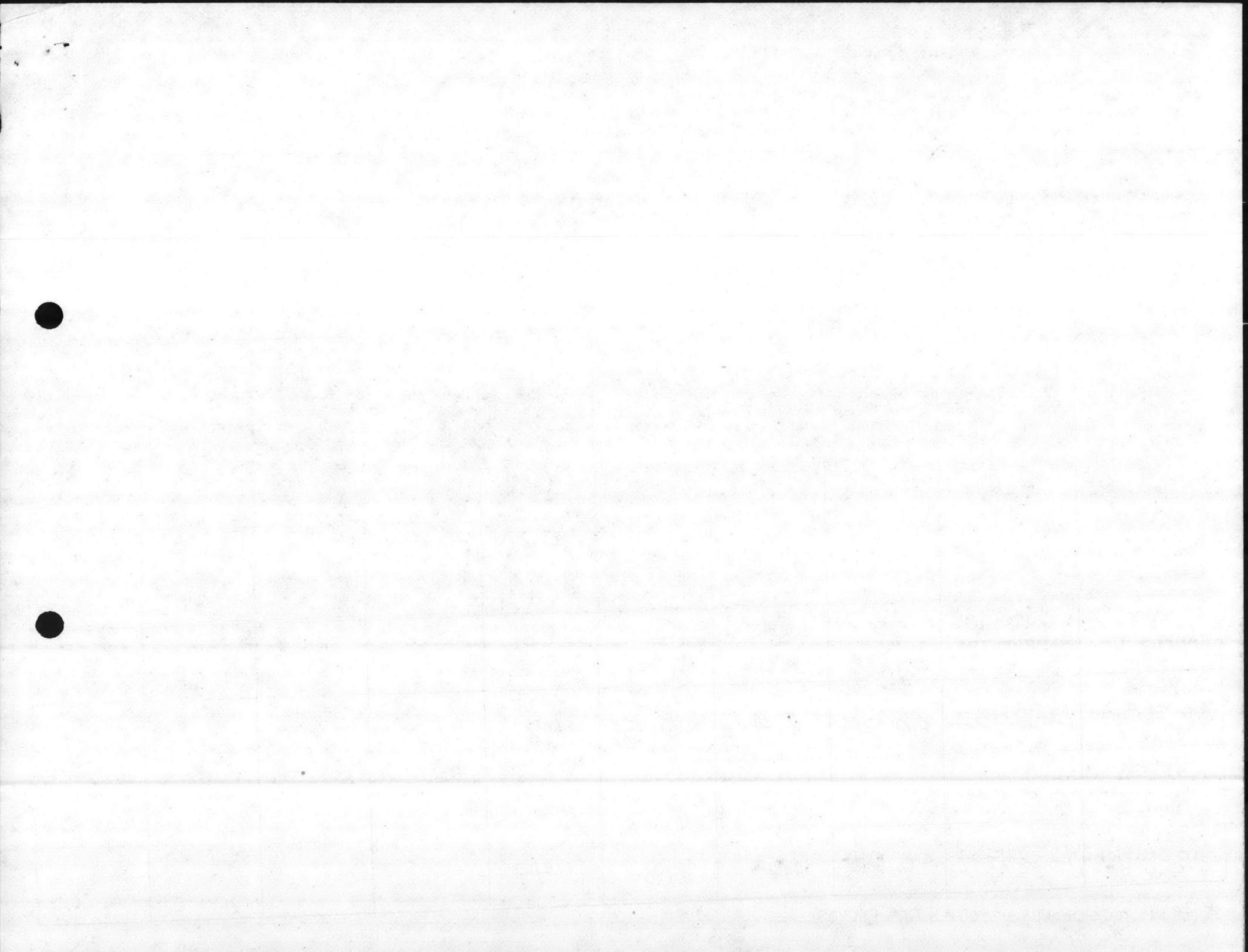


JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 4-4-86 Turnaround: 2 weeks  
 Date: 4-15-86 Report No. 264 to Naval Facilities Engineering Command, Norfolk, Virginia  
 JTC Data Report No. 86-194 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		B.S. + W %	Sp. Gravity API	Viscosity @ 100°C	TOX* %	Flashpoint °C	BTU per lb.	
86-13 Air Station Tank 1	12-2432	8.0	30.0	42.4 SUS	0.15	Flame at ~ 93	17,800	
86-14 Air Station Tank 2	12-2433	0.2	34.3	38.2 SUS	0.04	45	19,400	
86-15 Air Station Tank 3	12-2434	0.1	31.5	40.4 SUS	0.48	50	19,100	
NAVY SAMPLE ID	JTC SAMPLE ID	As mg/kg	Cd mg/kg	Cr mg/kg	Pb mg/kg			
86-13 Air Station Tank 1	12-2432	<0.25	1.4	<0.5	48			
86-14 Air Station Tank 2	12-2433	<0.25	9.0	<0.5	26			
86-15 Air Station Tank 3	12-2434	<0.25	8.2	8.8	14			

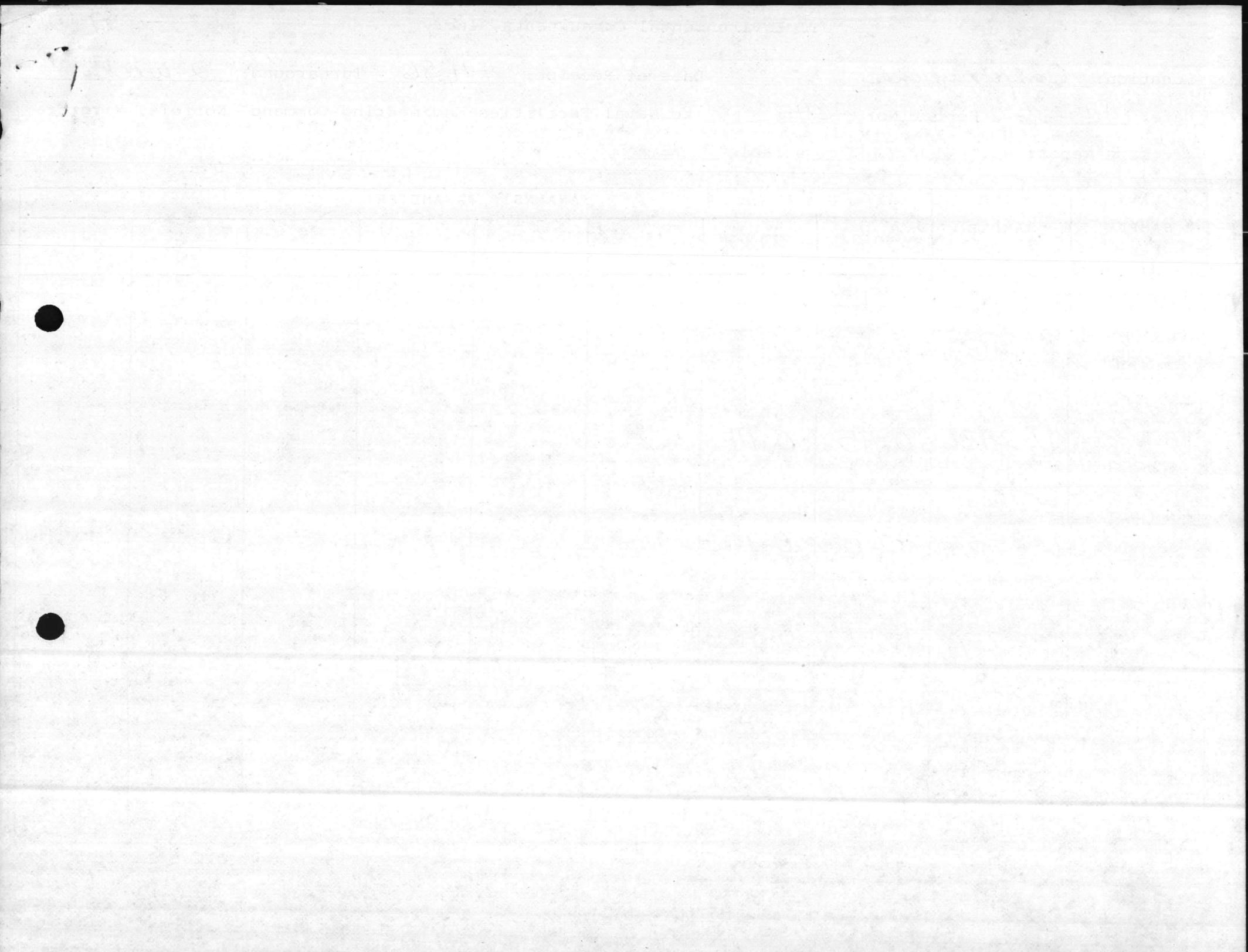
\* test according to ASTM D808



Location: Camp dejeune Date of Receipt: 4-4-86 Turnaround: 2 weeks  
 Date: 4-15-86 Report No. 264 to Naval Facilities Engineering Command, Norfolk, Virginia  
 JTC Data Report No. 86-194 Table 2

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER						
		B.S.+W %	TOX* %					
86-22 HB Tank S-888	12-2435	2.8	0.13					
86-23 HB Tank S-889	12-2436	0.45	0.14					
86-24 HB Tank S-890	12-2437	42.0	0.10					
86-25 HB Tank S-891	12-2438	18.0	0.16					

\* test according to ASTM D808





1942-1943  
The following information was obtained from the records of the  
Department of the Interior, Bureau of Land Management, for the  
years 1942 and 1943. The information is presented in the  
following table:

Year	Acres	Value
1942	1,234,567	\$1,234,567.00
1943	1,234,567	\$1,234,567.00

**DELTA PROCESS MANAGEMENT, INC.**

1985 Nonconnah Boulevard  
MEMPHIS, TENNESSEE 38132  
(901) 398-5151

JOB Exhibit I

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_

CALCULATED BY GFM DATE March 14, 1986

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

SCALE Used Oil Contract #N62470-85-C-7979

**USED OIL SPECIFICATION ANALYSIS SHEET**

**A. Fuel Oil Specifications**

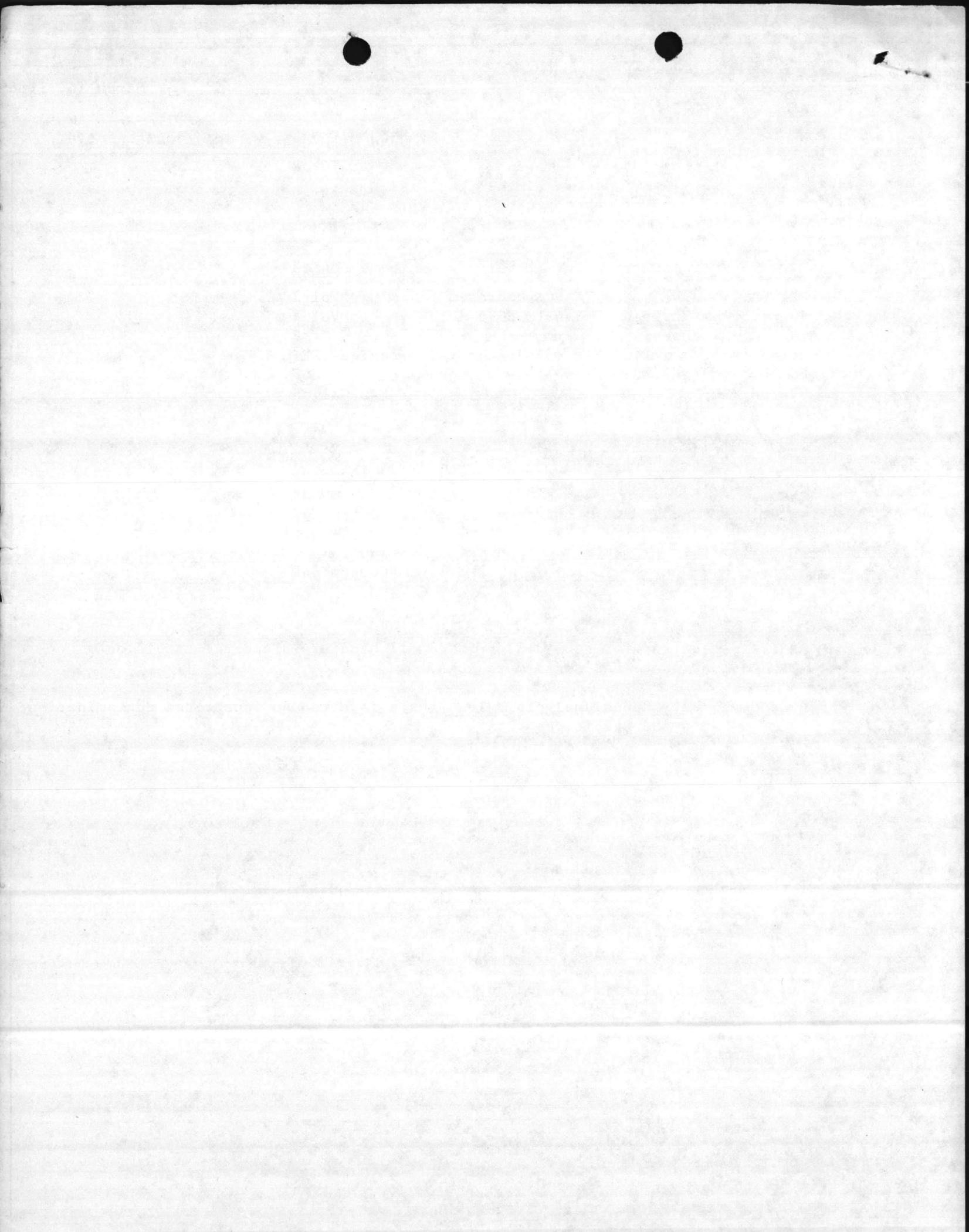
		<u>Units</u>
Water, (ASTM D396)	} See enclosed ASTM D396	Vol %
Sediment, (ASTM D396)		Vol %
Bottoms, (ASTM D396)		%
Specific Gravity API, (ASTM D396)		Degrees API
Viscosity Saybolt (ASTM D396)		SSU
BTU Value	Seconds	BTU/Gallon

**B. RCRA Used Oil Specifications**

Arsenic	} Methods per Federal Register November Regulations	5ppm max
Cadmium		2ppm max
Chromium		10ppm max
Lead		100ppm max
Flash Point		100°F
Halogens		4000ppm max

NOTE: Analysis required for fuel dealer (used oil handlers/blenders) to bid on Camp Lejeune waste and conform to RCRA.

Do not run extraneous analysis unless there is a reason (suspected contamination such as PCB's and herbicides).



DATE: 2 OCTOBER 1984

FROM: SUPVY CHEMIST, WQCL, ENVIRONMENTAL BRANCH

TO: SUPVY ECOLOGIST, ENVIRONMENTAL BRANCH

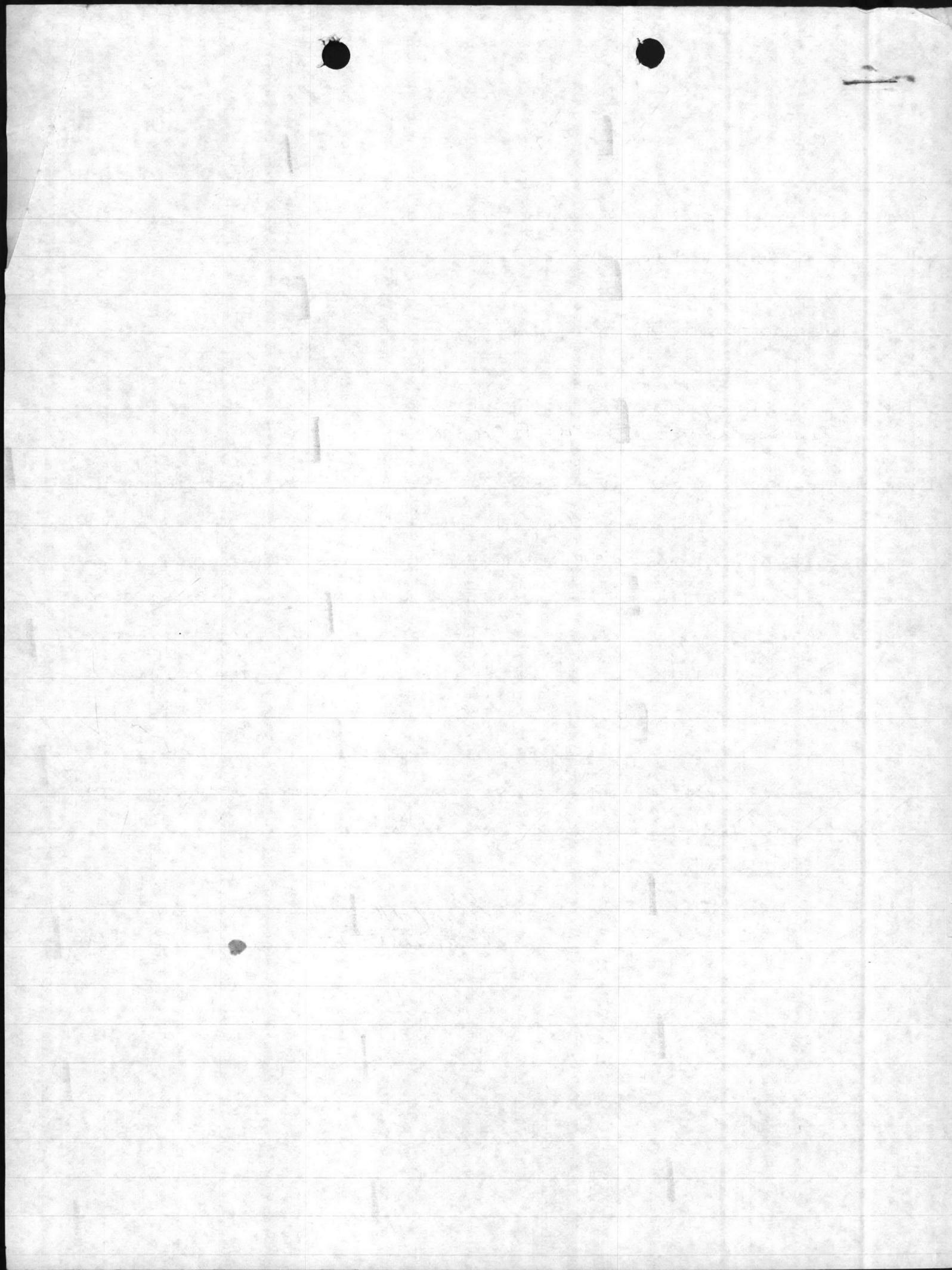
SUBJ: ANALYSIS OF WASTE OIL

- ENCL(1) GUILFORD LABORATORIES, INC LTR 28 SEP 1984  
ENCL(2) GRAINGER LABORATORIES, INC LTR 19 OCT 1984

1. THE ENCLOSURE CONTAINS THE ANALYSIS OF THE AIR STATION WASTE OIL TANKS AND THE 900 AREA SOLVENT TANK. GUILFORD SAMPLE # 3432 IS THE AIR STATION TANK NEAREST THE ROAD, SAMPLE # 3434 IS THE AIR STATION TANK NEAREST THE FIRE STATION, SAMPLE # 3433 IS THE AIR STATION TANK IN THE MIDDLE. GUILFORD SAMPLE # 3435 IS THE 900 AREA SOLVENT TANK. THESE RESULTS NEED TO BE FORWARDED TO THE BASE MAINTENANCE OFFICER AND TO THE UNIT @ # ~~THE~~ 900 AREA SO THE TANKS CAN BE TURNED OVER TO DPDO.

~~2. THE PCB ANALYSIS WAS ~~PERFORMED~~ BY GRAINGER AND SHOULD BE IN ~~THE~~ WITHIN A WEEK. HOWEVER, THE RESULTS SHOULD SHOW NO PCB CONTENT.~~

*Elizabeth B. B.*  
~~Elizabeth B. B.~~



SAMPLE # #1 DATE COLLECTED 3/5/85 TIME COLLECTED 0920

NAME OF COLLECTOR Huneycutt, Martin . LOCATION AND DESCRIPTION OF ITEM

SAMPLED AS-554 (Lg. Waste oil Tank) #1

COMMENTS: 2 quarts (Composite Top + Bottom)

2. SAMPLE # #2 DATE COLLECTED 3/5/85 TIME COLLECTED 0940

NAME OF COLLECTOR Huneycutt, Martin . LOCATION AND DESCRIPTION OF ITEM

SAMPLED AS-554 (Lg. Waste oil Tank) #2

COMMENTS 2 quarts (Composite Top + Bottom)

3. SAMPLE # #3 DATE COLLECTED 3/5/85 TIME COLLECTED 0950

NAME OF COLLECTOR Huneycutt, Martin . LOCATION AND DESCRIPTION OF ITEM

SAMPLED AS-554 (Lg. Waste oil Tank) #3 NEAREST TO FIRE

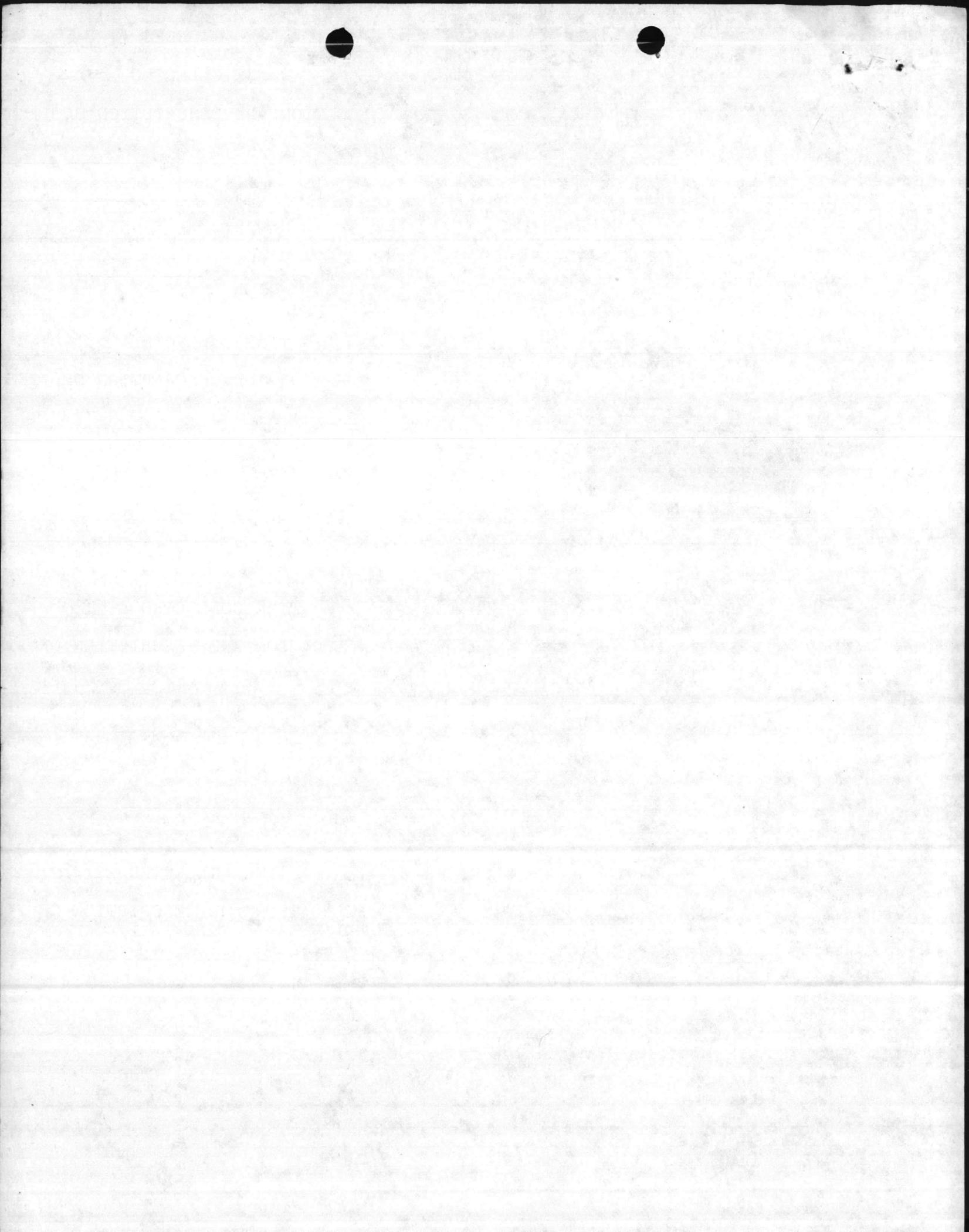
COMMENTS 2 quarts (Composite top + Bottom) HOUSE

4. SAMPLE # 4 DATE COLLECTED 3/5/85 TIME COLLECTED 1030

NAME OF COLLECTOR Huneycutt, Martin . LOCATION AND DESCRIPTION OF ITEM

SAMPLED BEL 515 Hanger

COMMENTS 1 waste oil tank beside tin building  
1 quart; seemed to be all fuel



2-11-85 Danny DDS



Please handle by  
22 Feb 85

DDS

1369

IN REPLY REFER TO DPDO-ZWM (N. Hipp/

SUBJECT: Request

TO: Command  
Attn: C  
Marine  
Camp Lejeune, N.C. 28542

1. The Memphis Region Contracting Office has a Prospective buyer for the oil located at the Marine Corps Air Station in tanks 419, 420 and 421. This buyer has requested 2 samples (quart size) from each tank. One sample will be mailed to the buyer and one to the company who will be hauling the oil. Request samples be provided to this office in order for us to mail them.
2. Further request they be taken as soon as possible to aid in disposition of the oil.

*Nadine Hipp*  
 Nadine Hipp  
 Chief, Defense Property  
 Disposal Office

DEPARTMENT OF THE ARMY  
HEADQUARTERS  
WASHINGTON, D. C.

5-17-88  
Denny

[Faint, mostly illegible typed text, possibly a memorandum or report]

[Faint handwritten signature or initials]

2-11-85  
DWW  
Danny  
DDS



DEFENSE LOGISTICS AGENCY  
DEFENSE PROPERTY DISPOSAL SERVICE  
DEFENSE PROPERTY DISPOSAL REGION OFFICE MEMPHIS  
DEFENSE PROPERTY DISPOSAL OFFICE LEJEUNE  
BUILDING 906  
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY  
REFER TO DPDO-ZWM (N. Hipp/451-5652/11p)

7 February 1985

SUBJECT: Request for Oil Samples

TO: Commanding General  
Attn: Chief of Staff, Facilities  
Marine Corps Base  
Camp Lejeune, N.C. 28542

1. The Memphis Region Contracting Office has a Prospective buyer for the oil located at the Marine Corps Air Station in tanks 419, 420 and 421. This buyer has requested 2 samples (quart size) from each tank. One sample will be mailed to the buyer and one to the company who will be hauling the oil. Request samples be provided to this office in order for us to mail them.
2. Further request they be taken as soon as possible to aid in disposition of the oil.

*Nadine Hipp*  
Nadine Hipp  
Chief, Defense Property  
Disposal Office

5-11-88  
D. J. [unclear]

[Faint, illegible text, possibly bleed-through from the reverse side of the page]

[Faint, illegible text, possibly a signature or stamp]

6240/5  
NREAD  
7 Nov 1984

From: Director, Natural Resources and Environmental Affairs  
Division, Marine Corps Base, Camp Lejeune  
To: Base Maintenance Officer, Marine Corps Base, Camp Lejeune  
Subj: ANALYSIS OF WASTE OIL AT MCAS(H) NEW RIVER STORAGE FACILITY  
Ref: (a) BMO ltr 11260 MAIN of 19 Jul 1984  
(b) BO 6240.5  
Encl: (1) Guilford Laboratories, Inc. ltr of 28 Sep 1984  
(2) Grainger Laboratories, Inc. ltr of 19 Oct 1984

1. Enclosures (1) and (2) are provided as requested by reference (a). Guilford sample number 3432 in enclosure (1) and the composite of 1335-1338 in enclosure (2) are the analysis of the storage tank nearest the road. Guilford sample number 3433 in enclosure (1) and the composite of 1339-1342 in enclosure (2) are the analysis of the storage tank in the middle. Guilford sample number 3434 in enclosure (1) and the composite of 1343-1346 in enclosure (2) are the analysis of the storage tank nearest the Fire Station.
2. The oil should be turned over to DPDO in accordance with reference (b). Turn-in should be routed through the Base Hazardous Material Disposal Coordinator (HMDC), Captain Owens, Assistant Chief of Staff, Logistics office, extension 2535. Point of contact is Ms. Elizabeth Betz, extension 5977.

J. I. WOOTEN

Copy to:  
Base HMDC  
→ SupvChemist





**GUILFORD LABORATORIES, INC.**  
P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

28 SEPTEMBER 1984

REPORT OF ANALYSIS

JOB#: USMC40911

CUSTOMER: U.S. MARINE CORPS

SAMPLES: #3432 COMPOSITE OF #17, #18, #19, & #20  
#3433 COMPOSITE OF #21, #22, #23, & #24  
#3434 COMPOSITE OF #25, #26, #27, & #28  
~~#3435 COMPOSITE OF #29, #30, & #31~~

RESULTS

	<u>#3432</u>	<u>#3433</u>	<u>#3434</u>	<del>#3435</del>
% WATER	1.9	2.6	4.9	<del>1.4</del>
FLASH POINT( PMCC, DEG F)	132.0	135.0	106.0	<del>119.0</del>
BTU/GAL	11089.61	123148.32	110976.13	<del>127220.64</del>
% SEDIMENT	0.37	1.31	0.92	<del>0.31</del>
SAYBOLT VISCOSITY(SSU @ 100)	72.5	119.5	161.2	<del>62.0</del>
(SSU @ 210)	195.0	46.1	91.2	<del>60.5</del>
API GRAVITY	42.55	36.75	35.36	<del>52.74</del>
% SULFUR	0.43	0.52	0.52	<del>0.037</del>
REACTIVITY	NR	NR	NR	<del>NR</del>
CORROSIVITY	7.64	7.19	7.25	<del>6.19</del>

NR - NON REACTIVE

WELLS FARGO BANK, INC.  
1000 BANKERS BUILDING  
CHICAGO, ILL. 60601

DATE	AMOUNT	DESCRIPTION	BALANCE
1/1	100.00	INITIAL DEPOSIT	100.00
1/15	50.00	WITHDRAWAL	50.00
2/1	25.00	WITHDRAWAL	25.00
2/15	10.00	WITHDRAWAL	15.00
3/1	7.50	WITHDRAWAL	7.50
3/15	5.00	WITHDRAWAL	2.50
4/1	2.50	WITHDRAWAL	0.00
4/15	0.00	INTEREST	0.00
5/1	0.00	INTEREST	0.00
5/15	0.00	INTEREST	0.00
6/1	0.00	INTEREST	0.00
6/15	0.00	INTEREST	0.00
6/30	0.00	INTEREST	0.00



EP TOXICITY (LEACHABLE METALS)

	<u>#3432</u>	<u>#3433</u>	<u>#3434</u>	<u>#3435</u>
ARSENIC (ppm)	<0.001	<0.001	<0.001	<0.001
BARIUM (ppm)	<0.01	<0.01	<0.01	<0.01
CADMIUM (ppm)	0.243	0.166	0.188	0.512
CHROMIUM (ppm)	0.146	0.067	0.030	0.079
LEAD (ppm)	1.62	1.08	0.86	0.61
MERCURY (ppm)	<0.001	<0.001	<0.001	<0.001
SELENIUM (ppm)	<0.001	<0.001	<0.001	<0.001
SILVER (ppm)	0.125	0.110	0.118	0.103
METHYLENE CHLORIDE (ppm)	105.3	7.02	<1.0	<1.0
XYLENES (ppm)	163.7	136.5	109.1	59.3
TETRACHLOROETHYLENE (ppm)	11.8	215.2	10.5	<1.0
TRICHLOROETHYLENE (ppm)	33.4	404.4	515.5	12.4
1,1,1 TRICHLOROETHANE (ppm)	145.9	125.2	17.1	2.2
ACETONE (ppm)	<3.0	<3.0	<3.0	<3.0
TOLUENE (ppm)	209.5	444.4	244.0	60.8
METHYL ETHYL KETONE (ppm)	64.4	56.1	93.8	<5.0
1,1 DICHLOROETHANE (ppm)	<1.0	<1.0	<1.0	3870.0
PHENOLS (ppm)	<0.5	<0.5	<0.5	<0.5

GUILFORD LABORATORIES, INC.

*J.A. Rayburn*  
 JR

J.A. RAYBURN



PERCENTAGE ANALYSIS

Element	Percentage
ARSENIC (ppm)	<0.01
BARIUM (ppm)	<0.01
CADMIUM (ppm)	0.243
CHROMIUM (ppm)	0.142
LEAD (ppm)	1.00
MANGANESE (ppm)	<0.001
SILICON (ppm)	<0.001
SILVER (ppm)	0.12
METHYLBENZYL CHLORIDE (ppm)	100.0
XYLENES (ppm)	100.0
TETRAHYDROTHIOPHENE (ppm)	100.0
1,1,1-TRICHLOROETHANE (ppm)	100.0
1,1,2-TRICHLOROETHANE (ppm)	100.0
METHYL METHACRYLATE (ppm)	100.0
METHYL METHACRYLATE (ppm)	100.0
1,1-DICHLOROETHANE (ppm)	100.0
PICCOLIN (ppm)	100.0



October 19, 1984  
GLI #85-1014

**Grainger  
Laboratories  
Incorporated**

Analytical and  
Consulting Chemists

Quality Control Lab, USMCB  
Attn: Ms. Elizabeth Betz, Supervisor  
NREAD, Building 1103  
Camp Lejeune, North Carolina 28542

Subject: Analyses of Samples Received 10/2/84

5500 Commercial Avenue  
Raleigh, NC 27612  
(919) 787-3061

1040 Greenfield Street  
Wilmington, NC 28402  
(919) 763-9793

RESULTS

<u>Sample Identification</u>	<u>Total Aroclors, µg/g</u>
1. Composite of 1335 thru 1338	<4.0*
2. Composite of 1339 thru 1342	<4.0*
3. Composite of 1343 thru 1346	<4.0*
<del>4. Composite of 1347 thru 1349</del>	<del>&lt;1.0</del>
<del>5. Composite of 1358 thru 1363</del>	<del>&lt;1.0</del>
<del>6. Composite of 1364 thru 1369</del>	<del>&lt;1.0</del>
<del>7. Composite of 1370 thru 1375</del>	<del>&lt;1.0</del>
<del>8. Composite of 1376 thru 1381</del>	<del>&lt;1.0</del>
<del>9. Composite of 1382 thru 1387</del>	<del>&lt;1.0</del>
<del>10. Composite of 1388 thru 1393</del>	<del>&lt;1.0</del>
<del>11. Composite of 1394 thru 1398</del>	<del>&lt;1.0</del>
<del>12. Composite of 1399 thru 1404</del>	<del>&lt;1.0</del>

**Analytical  
Laboratory**

Environment Analysis  
Materials  
Identification of Unknowns  
Agricultural Products  
Fuels  
Textiles  
Hazardous Waste  
GC/MS  
ICP Metals  
Priority Pollutants

**Consultation**

Metallurgical Services  
Pollution Abatement  
Process Development  
Quality Control  
Methods Development  
Special Investigation

**Certifications**

SDWA  
NPDES  
USDA  
USEPA

\* Note: Due to sample matrix interferences, the detection limit for these samples was raised.

Edgar E. Folk, IV  
G.C. Laboratory Manager

EEF:ps



October 10, 1984  
DLI 485-1014

Granger  
Laboratories  
Incorporated  
Analytical and  
Quality Control

Commercial Avenue  
Raleigh, NC 27601  
(919) 876-2000

1140 E. Hargett Street  
Wilmington, NC 28403  
(919) 763-2000

Analytical  
Laboratory  
Food and Drug  
Administration  
Division of  
Agricultural  
Products  
Food  
Technology  
Division  
GC/MS  
CP Method  
GC/MS

Consulting  
Multinational Services  
Food and Drug  
Administration  
Process Development  
Quality Control  
Plant & Development  
Federal Government

Certification  
SMA  
NIST  
ISO  
FDA

Quality Control Lab, USHHS  
Attn: Mr. Elizabeth Perry  
HEAD, Building 103  
Camp Lejeune, North Carolina 28542

RESULTS

Sample Identification	Result
1. Composite of 1350 thru 1354	
2. Composite of 1355 thru 1359	
3. Composite of 1360 thru 1364	
4. Composite of 1365 thru 1369	
5. Composite of 1370 thru 1374	
6. Composite of 1375 thru 1379	
7. Composite of 1380 thru 1384	
8. Composite of 1385 thru 1389	
9. Composite of 1390 thru 1394	
10. Composite of 1395 thru 1399	
11. Composite of 1400 thru 1404	
12. Composite of 1405 thru 1409	

Note: Due to sample matrix characteristics, the detection of these samples was not possible.

*[Signature]*  
John E. Folz, IV  
A.C. Laboratory Manager



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

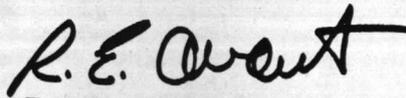
11260  
MAIN

JUL 19 1984

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

Subj: ANALYSIS OF WASTE OIL

1. It is requested that the three waste oil tanks at Marine Corps Air Station, old heating plant, be analyzed for the purpose of sale. It is critical that these tanks be analyzed as soon as possible due to limited storage capacity.



R. E. AVANT  
By direction

U.S. DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

11300  
MAIL

APR 19 1984

MEMORANDUM FOR THE DIRECTOR, FBI

FROM: SAC, [illegible]

RE: [illegible]

[Handwritten signature]

[illegible]

DATE: 6 NOVEMBER 1984

TO: SUPVY CHEMIST, WQCL, ENVIRONMENTAL BRANCH

TO: SUPVY ECOLOGIST, ENVIRONMENTAL BRANCH

SUBJ: ANALYSIS OF WASTE OIL @ MCAS

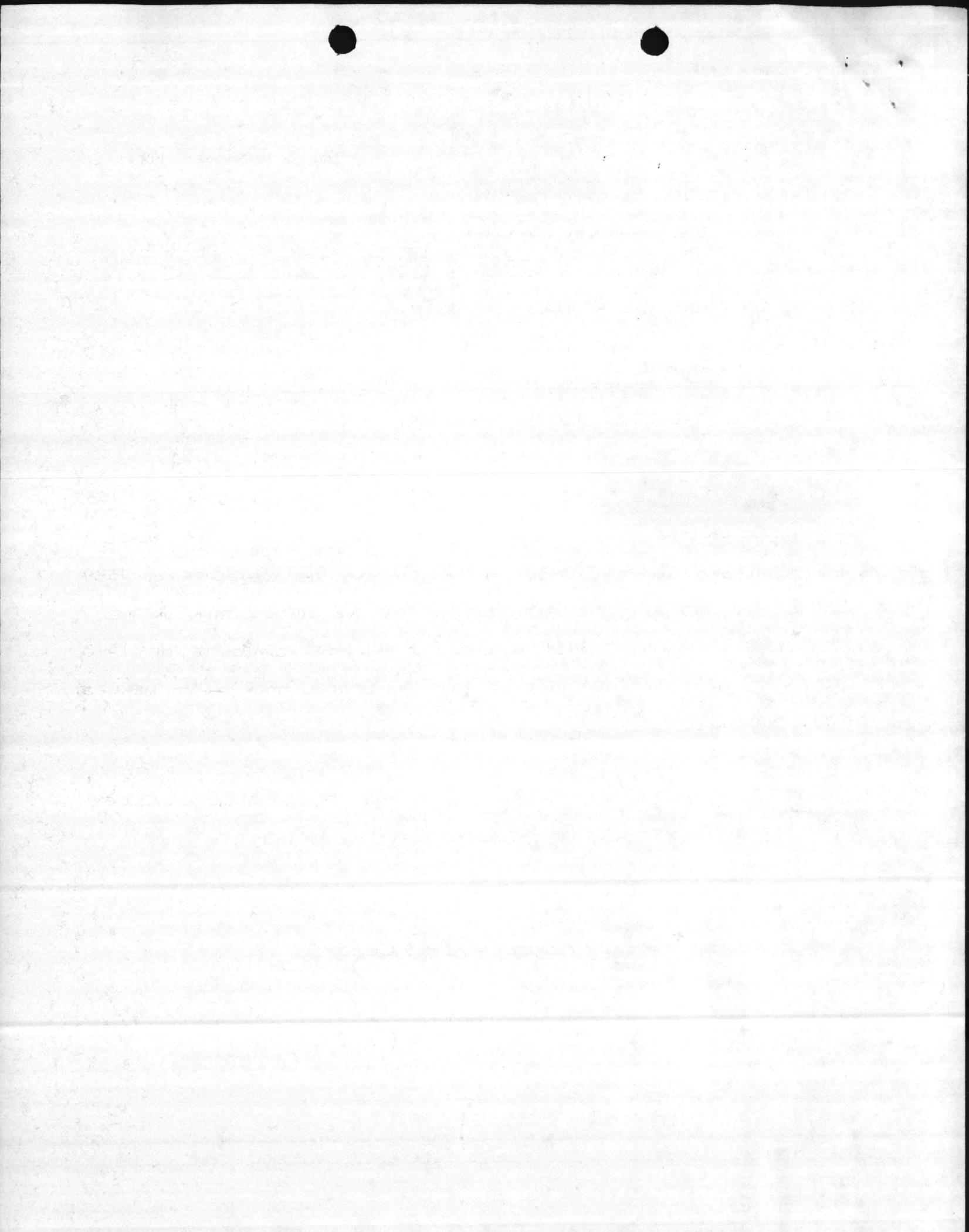
ENCL (1) GUILFORD LABORATORIES, INC LTR 28 SEP 1984

(2) GRANGER LABORATORIES, INC LTR 19 OCT 1984

~~THE~~ GUILFORD SAMPLE # 3432 IN ENCL (1) AND THE COMPOSITE OF 1335 - 338 IN ENCL (2) ~~ARE~~ ARE THE ANALYSIS OF THE AIR STATION TANK NEAREST THE ROAD. GUILFORD SAMPLE # 3433 IN ENCL (1) AND THE COMPOSITE OF 1339 - 342 ~~ARE~~ IN ENCL (2) ARE THE ANALYSIS OF THE AIR STATION TANK IN THE MIDDLE. GUILFORD SAMPLE # 3434 IN ENCL (1) AND THE COMPOSITE OF 1343 - 346 IN ENCL (2) ARE THE ANALYSIS OF THE AIR STATION TANK ~~NEAREST~~ NEAREST THE FIRE STATION.

THESE RESULTS NEED TO BE FORWARDED TO THE BASE MAINTENANCE OFFICER SO THE TANKS CAN BE TURNED OVER TO DPDO.

Elizabeth O'Beirne





# GUILFORD LABORATORIES, INC.

P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

28 SEPTEMBER 1984

## REPORT OF ANALYSIS

JOB#: USMC40911

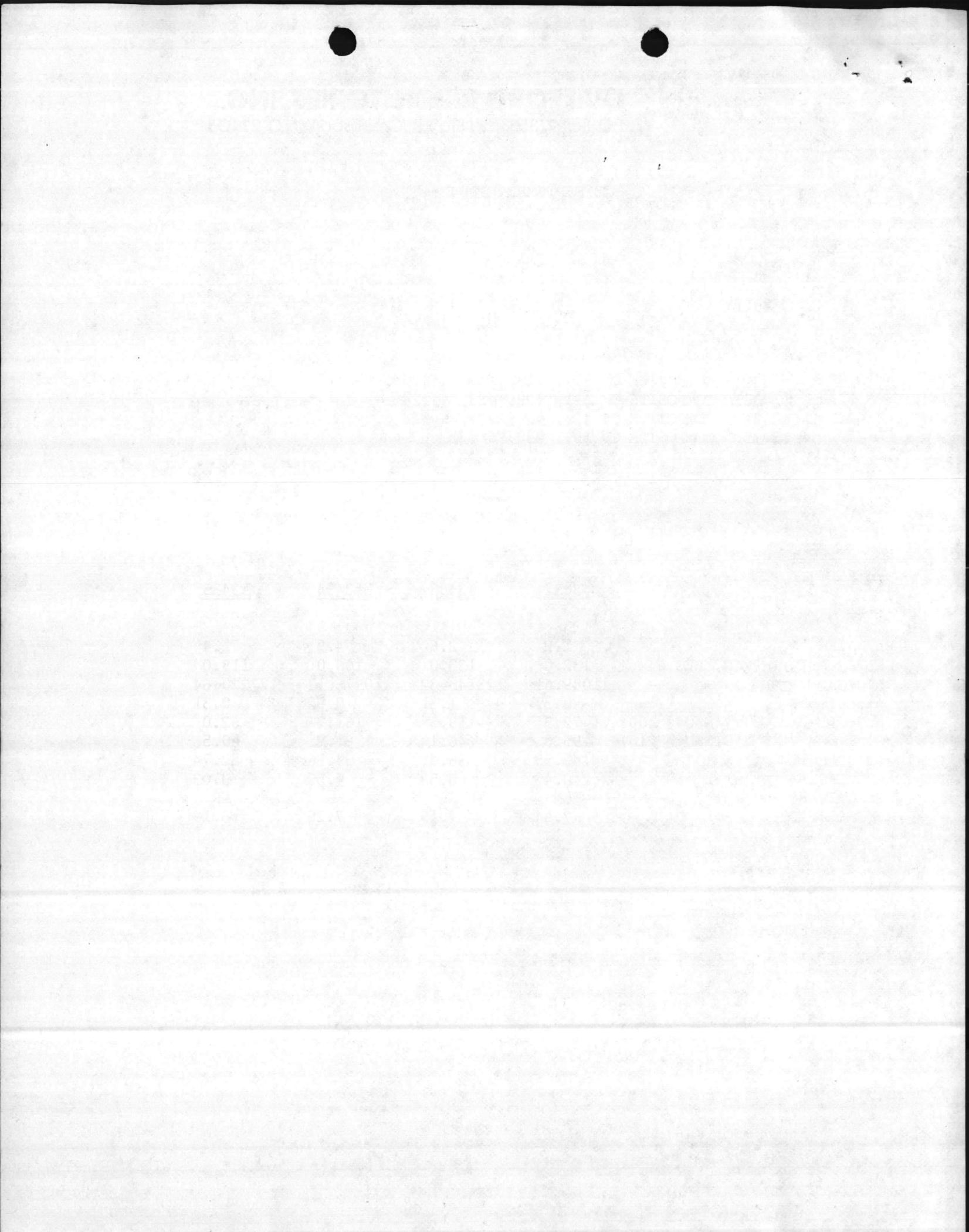
CUSTOMER: U.S. MARINE CORPS

SAMPLES: #3432 COMPOSITE OF #17, #18, #19, & #20  
#3433 COMPOSITE OF #21, #22, #23, & #24  
#3434 COMPOSITE OF #25, #26, #27, & #28  
#3435 COMPOSITE OF #29, #30, & #31

## RESULTS

	<u>#3432</u>	<u>#3433</u>	<u>#3434</u>	<u>#3435</u>
% WATER	1.9	2.6	4.9	1.4
FLASH POINT( PMCC, DEG F)	132.0	135.0	106.0	119.0
BTU/GAL	11089.61	123148.32	110976.13	127220.64
% SEDIMENT	0.37	1.31	0.92	0.31
SAYBOLT VISCOSITY(SSU @ 100)	72.5	119.5	161.2	62.0
(SSU @ 210)	195.0	46.1	91.2	60.5
API GRAVITY	42.55	36.75	35.36	52.74
% SULFUR	0.43	0.52	0.52	0.037
REACTIVITY	NR	NR	NR	NR
CORROSIVITY	7.64	7.19	7.25	6.19

NR - NON REACTIVE





# GUILFORD LABORATORIES, INC.

P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

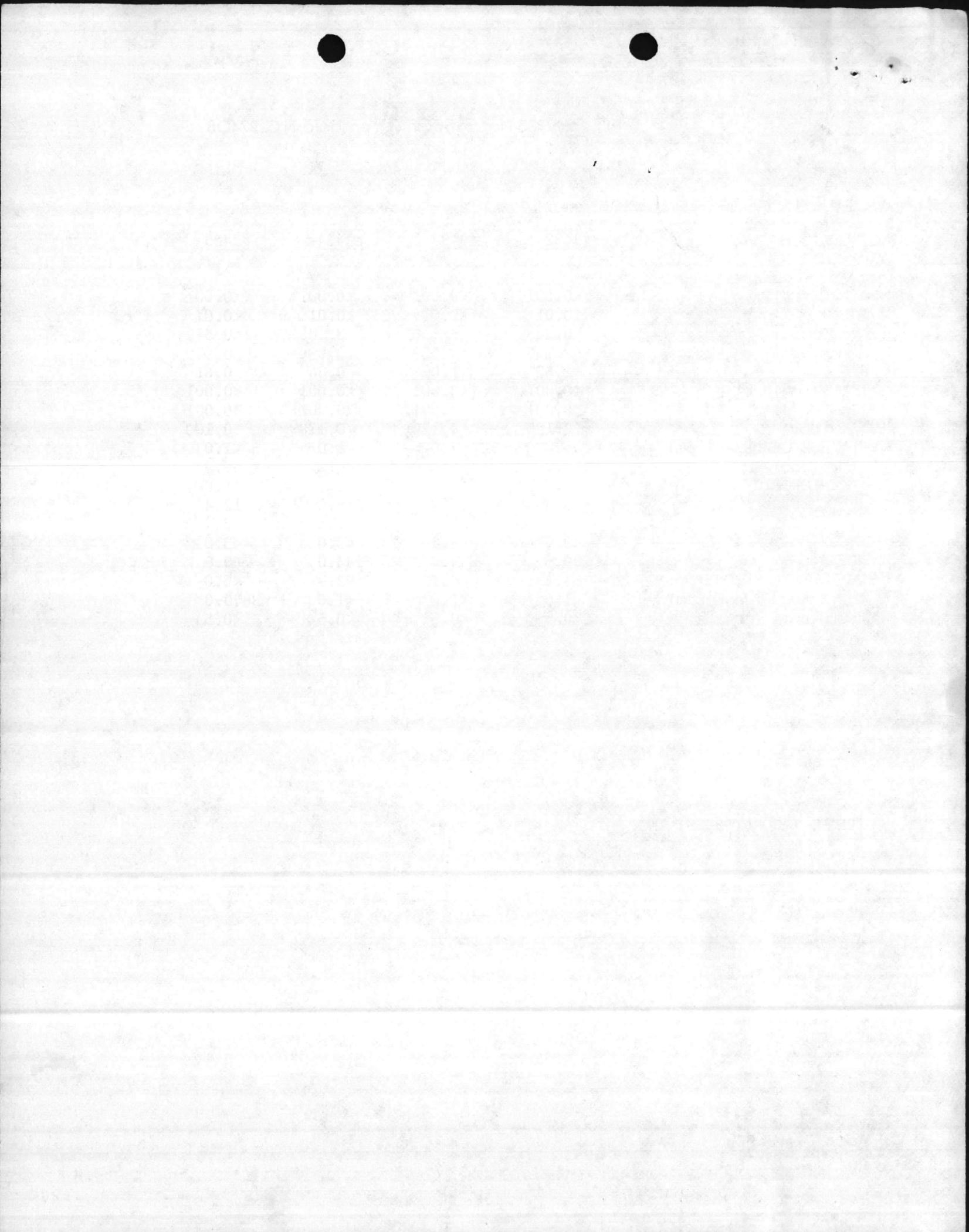
## EP TOXICITY (LEACHABLE METALS)

	<u>#3432</u>	<u>#3433</u>	<u>#3434</u>	<u>#3435</u>
ARSENIC (ppm)	<0.001	<0.001	<0.001	<0.001
BARIUM (ppm)	<0.01	<0.01	<0.01	<0.01
CADMIUM (ppm)	0.243	0.166	0.188	0.512
CHROMIUM (ppm)	0.146	0.067	0.030	0.079
LEAD (ppm)	1.62	1.08	0.86	0.61
MERCURY (ppm)	<0.001	<0.001	<0.001	<0.001
SELENIUM (ppm)	<0.001	<0.001	<0.001	<0.001
SILVER (ppm)	0.125	0.110	0.118	0.103
METHYLENE CHLORIDE (ppm)	105.3	7.02	<1.0	<1.0
XYLENES (ppm)	163.7	136.5	109.1	59.3
TETRACHLOROETHYLENE (ppm)	11.8	215.2	10.5	<1.0
TRICHLOROETHYLENE (ppm)	33.4	404.4	515.5	12.4
1,1,1 TRICHLOROETHANE (ppm)	145.9	125.2	17.1	2.2
ACETONE (ppm)	<3.0	<3.0	<3.0	<3.0
TOLUENE (ppm)	209.5	444.4	244.0	60.8
METHYL ETHYL KETONE (ppm)	64.4	56.1	93.8	<5.0
1,1 DICHLOROETHANE (ppm)	<1.0	<1.0	<1.0	3870.0
PHENOLS (ppm)	<0.5	<0.5	<0.5	<0.5

GUILFORD LABORATORIES, INC.

*J.A. Rayburn*  
SR

J.A. RAYBURN





October 19, 1984  
GLI #85-1014

**Grainger  
Laboratories  
Incorporated**

Analytical and  
Consulting Chemists

Quality Control Lab, USMCB  
Attn: Ms. Elizabeth Betz, Supervisor  
NREAD, Building 1103  
Camp Lejeune, North Carolina 28542

Subject: Analyses of Samples Received 10/2/84

5500 Commercial Avenue  
Raleigh, NC 27612  
(919) 787-3061

RESULTS

1040 Greenfield Street  
Wilmington, NC 28402  
(919) 763-9793

Sample Identification

Total Aroclors, µg/g

1. Composite of 1335 thru 1338	<4.0*
2. Composite of 1339 thru 1342	<4.0*
3. Composite of 1343 thru 1346	<4.0*
4. Composite of 1347 thru 1349	<1.0
5. Composite of 1358 thru 1363	<1.0
6. Composite of 1364 thru 1369	<1.0
7. Composite of 1370 thru 1375	<1.0
8. Composite of 1376 thru 1381	<1.0
9. Composite of 1382 thru 1387	<1.0
10. Composite of 1388 thru 1393	<1.0
11. Composite of 1394 thru 1398	<1.0
12. Composite of 1399 thru 1404	<1.0

**Analytical  
Laboratory**

Environment Analysis  
Materials  
Identification of Unknowns  
Agricultural Products  
Fuels  
Textiles  
Hazardous Waste  
GC/MS  
ICP Metals  
Priority Pollutants

**Consultation**

Metallurgical Services  
Pollution Abatement  
Process Development  
Quality Control  
Methods Development  
Special Investigation

**Certifications**

SDWA  
NPDES  
USDA  
USEPA

\* Note: Due to sample matrix interferences, the detection limit for these samples was raised.

*Edgar E. Folk, IV*

Edgar E. Folk, IV  
G.C. Laboratory Manager

EEF:ps



October 22, 1958  
GLI 482-1014



# Gilmer Laboratories Incorporated

Analytical  
Chemical

100 Commercial Avenue  
Baltimore, MD 21202  
(410) 787-3000

100 Commercial Avenue  
Baltimore, MD 21202  
(410) 787-3000

Analytical  
Laboratory

100 Commercial Avenue  
Baltimore, MD 21202  
(410) 787-3000

Quality Control Lab, 1000  
Allen St. Elizabeth City, Maryland  
1103  
Maryland, North Carolina

## RESULTS

### Sample Identification

1. Composite of 1000
2. Composite of 1000
3. Composite of 1000
4. Composite of 1000
5. Composite of 1000
6. Composite of 1000
7. Composite of 1000
8. Composite of 1000
9. Composite of 1000
10. Composite of 1000
11. Composite of 1000
12. Composite of 1000

Note: The results are reported for the samples listed above.

Eugene J. Folger  
E. C. Laboratory



# PIEDMONT RESEARCH LABORATORIES

Division Of  
GUILFORD LABORATORIES, INC.

21 JUNE 1984

## REPORT OF ANALYSIS

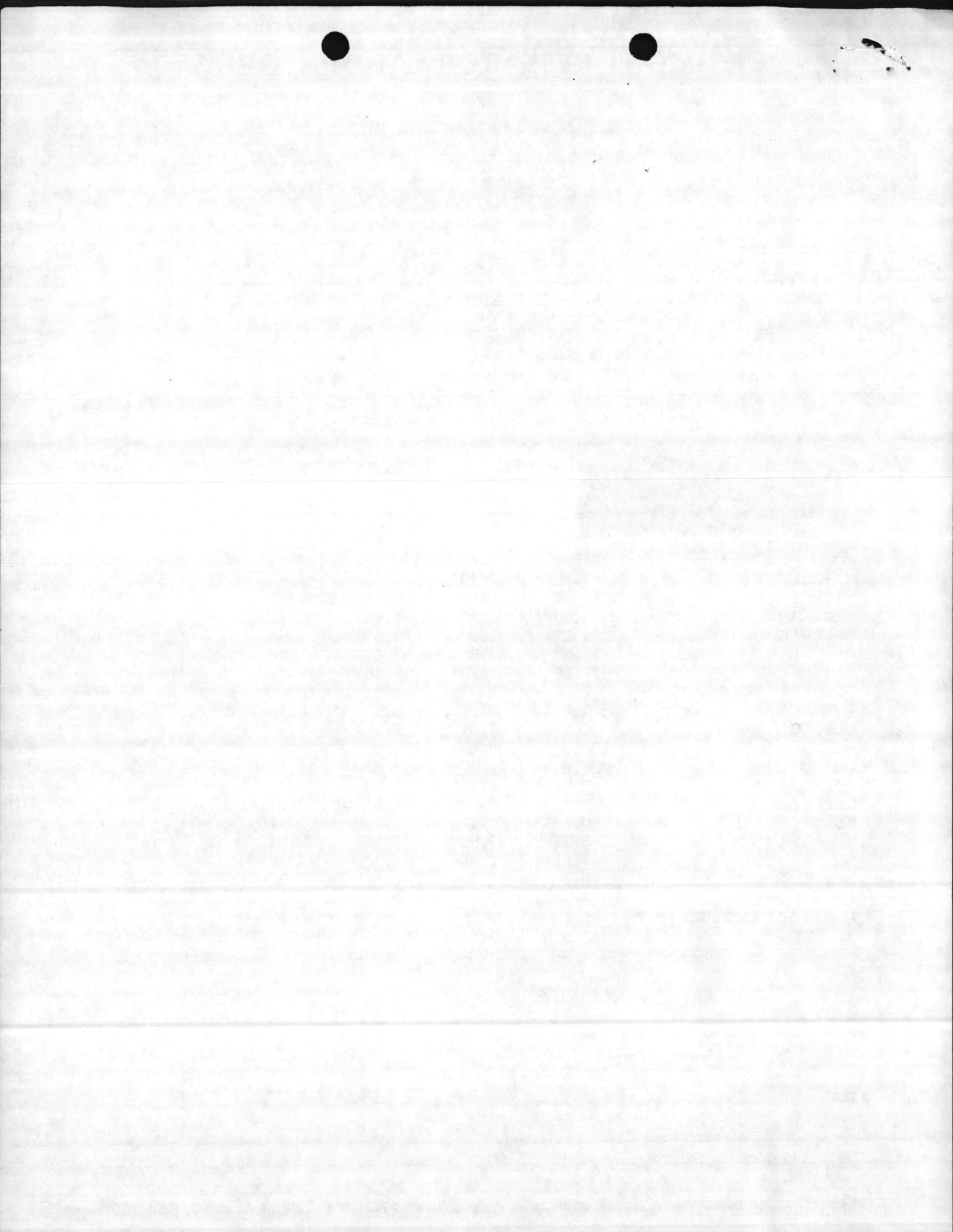
JOB#: DON40510

CUSTOMER: DEPT OF NAVY      ATTN: ELIZABETH BETZ

SAMPLES: #1878 - TANK #5-888 (SAMPLES 1-4)  
          #1879 - TANK #5-889 (SAMPLES 5-8)  
          #1880 - TANK #5-890 (SAMPLES 9-12)  
          #1881 - TANK #5-891 (SAMPLES 13-16)

## RESULTS

	<u>#1878</u>	<u>#1879</u>	<u>#1880</u>	<u>#1881</u>
% WATER	2.1	2.6	4.8	4.0
FLASH PT. (PMCC, deg F)	124 F	132 F	156 F	144 F
CORROSIVITY (pH)	7.59	7.10	6.50	7.63
BTU/gal	124,461	83,462	77,711	106,365
% SEDIMENT	< 0.001	< 0.001	1.60	0.71
VISCOSITY @ 100 ssu	62.2	42.0	80.5	73.5
@ 212 ssu	31.0	52.8	57.6	51.0
API GRAVITY @ 60	37.56	22.98	32.46	35.56
Cu STRIP CORROSIVITY	1	1	1	2
% SULFUR	0.40	0.19	0.24	0.30
ARSENIC (ppm)	4.37	7.69	5.20	5.68
BARIUM (ppm)	160.0	200.0	184.0	152.0
CADMIUM (ppm)	21.0	21.0	18.6	19.4
CHROMIUM (ppm)	7.0	7.66	7.06	9.29
LEAD (ppm)	229.0	222.0	225.0	218.0
MERCURY (ppm)	0.433	0.189	0.398	0.346
SELENIUM (ppm)	5.75	10.99	6.35	5.04
SILVER (ppm)	7.61	5.30	34.3	4.32
PHENOLS (ppm)	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2-TCE (ppm)	3.7	< 0.1	< 0.1	< 0.1
1,1 DICHLOROETHANE (ppm)	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE (ppm)	143.5	129.0	83	66

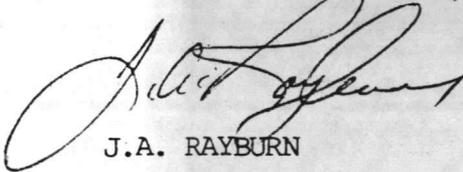


# PIEDMONT RESEARCH LABORATORIES

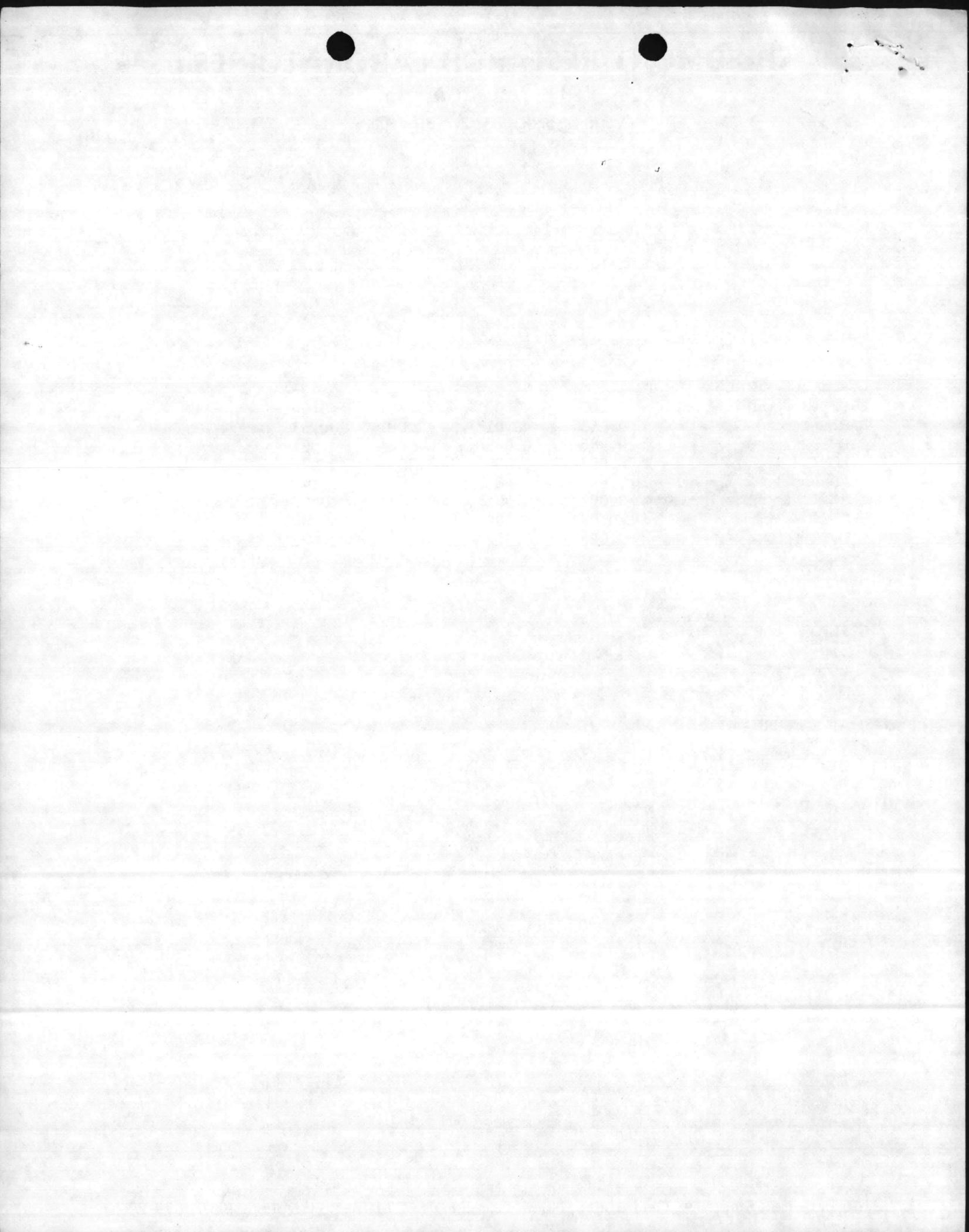
Division Of  
GUILFORD LABORATORIES, INC.

	<u>#1878</u>	<u>#1879</u>	<u>#1880</u>	<u>#1881</u>
LEACHABLE METALS - EP TOXICITY				
ARSENIC (ppm)	<0.001	<0.001	<0.001	<0.001
BARIUM (ppm)	0.153	<0.01	<0.001	0.153
CADMIUM (ppm)	0.085	0.068	0.068	0.08
CHROMIUM (ppm)	0.058	0.058	0.235	0.176
LEAD (ppm)	2.59	1.58	1.39	2.14
MERCURY (ppm)	0.001	0.001	0.001	<0.001
SELENIUM (ppm)	<0.001	<0.001	<0.001	<0.001
SILVER (ppm)	0.025	0.012	0.012	0.025

GUILFORD LABORATORIES, INC.



J.A. RAYBURN





June 15, 1984  
84-11142

**Grainger  
Laboratories  
Incorporated**

Analytical and  
Consulting Chemists

United States Marine Corps  
Natural Resources and Environmental Affairs Div.  
QC Lab NREAD, Bldg. 1103  
Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 6-12-84

Sample Identification: Purchase Order No. M3100041590130

- |    |              |    |              |
|----|--------------|----|--------------|
| 1. | 1201 - S-888 | 5. | 1205 - S-888 |
| 2. | 1202 - S-890 | 6. | 1206 - S-890 |
| 3. | 1203 > S-889 | 7. | 1207         |
| 4. | 1204 > S-889 | 8. | 1208 > S-891 |

5500 Commercial Avenue  
Raleigh, NC 27612  
(919) 787-3061

1040 Greenfield Street  
Wilmington, NC 28402  
(919) 763-9793

RESULTS

<u>Analytical Laboratory</u>	<u>Sample Number</u>	<u>Total Aroclors, µg/g</u>
Environment Analysis	1	<1.0
Materials	2	<1.0
Identification of Unknowns	3	<1.0
Agricultural Products	4	<1.0
Fuels	5	<1.0
Textiles	6	<1.0
Hazardous Waste	7	<1.0
GC/MS	8	<1.0
ICP Metals		
Priority Pollutants		
<b>Consultation</b>		
Metallurgical Services		
Pollution Abatement		
Process Development		
Quality Control		
Methods Development		
Special Investigation		

**Certifications**

SDWA  
NPDES  
USDA  
USEPA

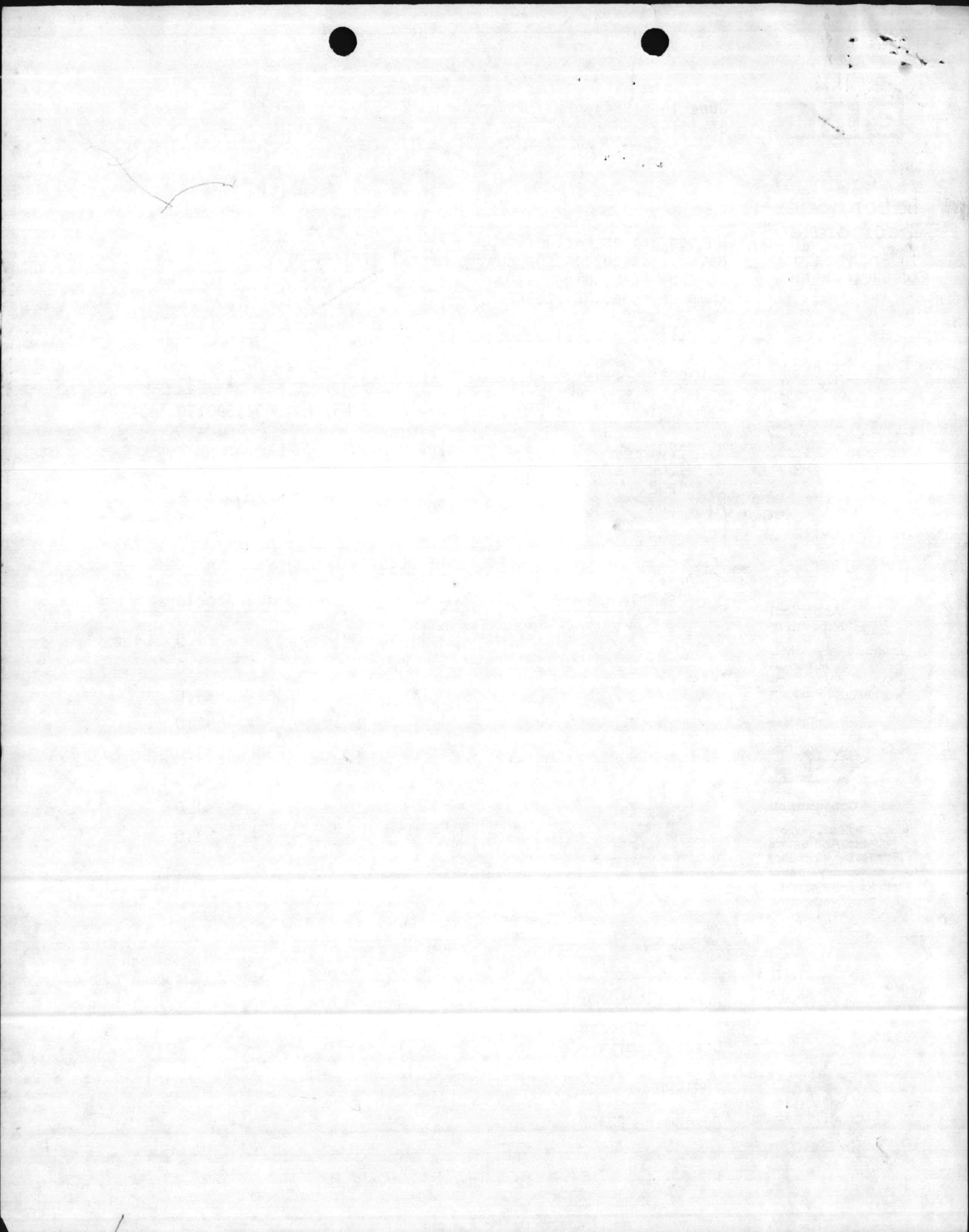
*Bruce A. Babson (WPB)*

Bruce A. Babson  
Staff Chemist

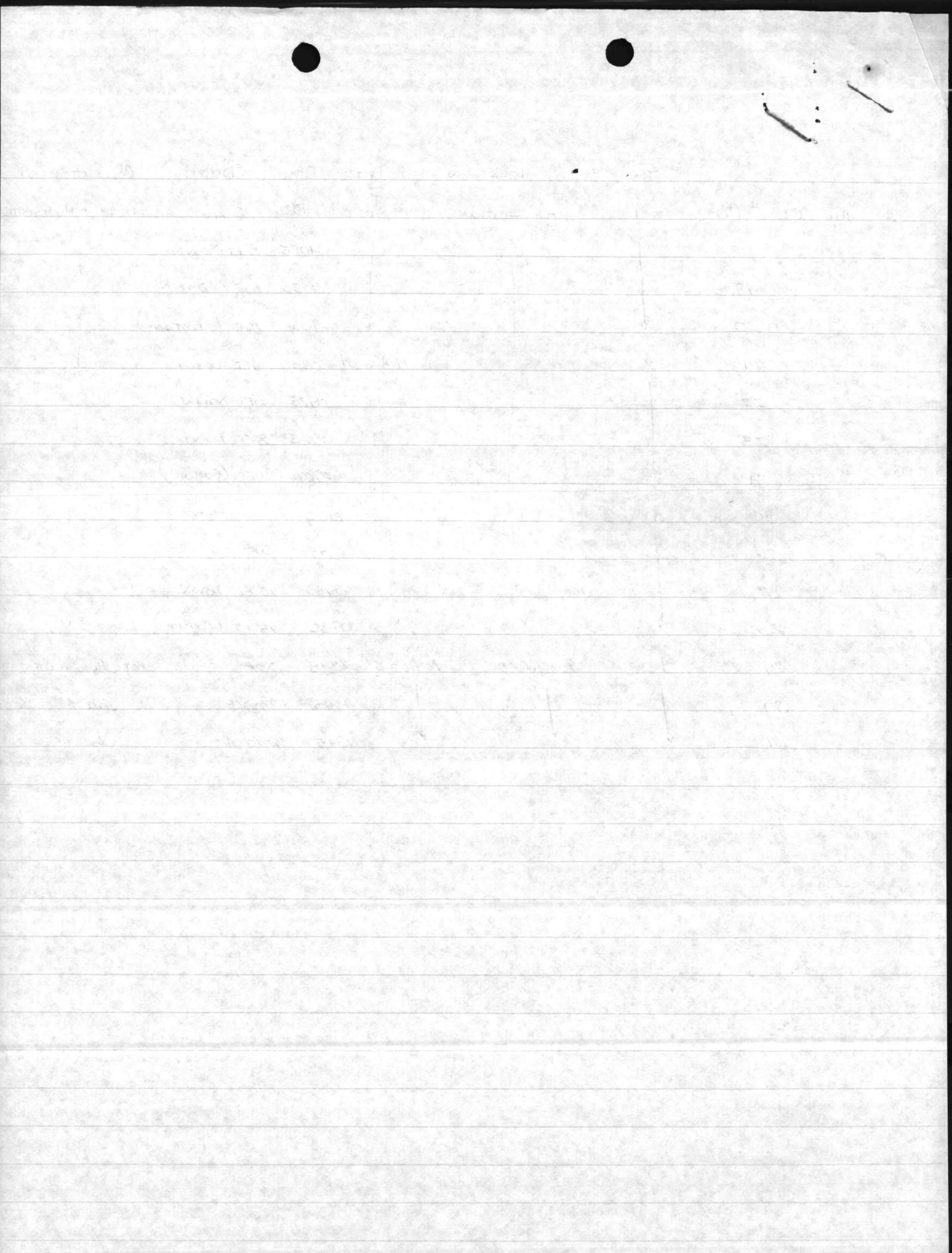
BAB:pph

Customer #92400





USMC CL #	TANK #	LOCATION	DATE	TIME	DEPTH	COLLECTOR(S)
17	1	AIR STATION	13 AUG 84	1035	SURFACE	BETZ + HONEYCUTT
18	↓	↓	↓	1035	5 FT DOWN	↓
19	↓	↓	↓	1030	10 FT DOWN	↓
20	↓	↓	↓	1030	15 FT ↓ (BOTTOM)	↓
21	2		14 AUG 84	0930	1 FT DOWN	
22	↓	↓	↓	0925	5 FT DOWN	↓
23	↓	↓	↓	0925	8 FT DOWN	↓
24	↓	↓	↓	0920	11 FT (BOTTOM)	↓
25	3			1055	SURFACE	
26	↓	↓	↓	0945	5 FT DOWN	↓
27	↓	↓	↓	0940	10 FT DOWN	↓
28	↓	↓	↓	0935	15 FT (BOTTOM)	↓
29	4	900 AREA	13 AUG 84	1345	TOP	BETZ, HONEYCUTT,
30	↓	↓	↓	1345	MIDDLE	JOLLY
31	↓	↓	↓	1345	BOTTOM	↓





**GUILFORD LABORATORIES, INC.**  
P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

28 SEPTEMBER 1984

REPORT OF ANALYSIS

JOB#: USMC40911

CUSTOMER: U.S. MARINE CORPS

SAMPLES: #3432 COMPOSITE OF #17, #18, #19, & #20  
#3433 COMPOSITE OF #21, #22, #23, & #24  
#3434 COMPOSITE OF #25, #26, #27, & #28  
#3435 COMPOSITE OF #29, #30, & #31

RESULTS

	<u>#3432</u>	<u>#3433</u>	<u>#3434</u>	<u>#3435</u>
% WATER	1.9	2.6	4.9	1.4
FLASH POINT( PMCC, DEG F)	132.0	135.0	106.0	119.0
BTU/GAL	11089.61	123148.32	110976.13	127220.64
% SEDIMENT	0.37	1.31	0.92	0.31
SAYBOLT VISCOSITY(SSU @ 100)	72.5	119.5	161.2	62.0
(SSU @ 210)	195.0	46.1	91.2	60.5
API GRAVITY	42.55	36.75	35.36	52.74
% SULFUR	0.43	0.52	0.52	0.037
REACTIVITY	NR	NR	NR	NR
CORROSIVITY	7.64	7.19	7.25	6.19

NR - NON REACTIVE





# GUILFORD LABORATORIES, INC.

P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

## EP TOXICITY (LEACHABLE METALS)

	<u>#3432</u>	<u>#3433</u>	<u>#3434</u>	<u>#3435</u>
ARSENIC (ppm)	<0.001	<0.001	<0.001	<0.001
BARIUM (ppm)	<0.01	<0.01	<0.01	<0.01
CADMIUM (ppm)	0.243	0.166	0.188	0.512
CHROMIUM (ppm)	0.146	0.067	0.030	0.079
LEAD (ppm)	1.62	1.08	0.86	0.61
MERCURY (ppm)	<0.001	<0.001	<0.001	<0.001
SELENIUM (ppm)	<0.001	<0.001	<0.001	<0.001
SILVER (ppm)	0.125	0.110	0.118	0.103
METHYLENE CHLORIDE (ppm)	105.3	7.02	<1.0	<1.0
XYLENES (ppm)	163.7	136.5	109.1	59.3
TETRACHLOROETHYLENE (ppm)	11.8	215.2	10.5	<1.0
TRICHLOROETHYLENE (ppm)	33.4	404.4	515.5	12.4
1,1,1 TRICHLOROETHANE (ppm)	145.9	125.2	17.1	2.2
ACETONE (ppm)	<3.0	<3.0	<3.0	<3.0
TOLUENE (ppm)	209.5	444.4	244.0	60.8
METHYL ETHYL KETONE (ppm)	64.4	56.1	93.8	<5.0
1,1 DICHLOROETHANE (ppm)	<1.0	<1.0	<1.0	3870.0
PHENOLS (ppm)	<0.5	<0.5	<0.5	<0.5

GUILFORD LABORATORIES, INC.

*J. A. Rayburn*  
SR

J.A. RAYBURN



Dainy

Please handle ASAP.

DDS

Jrka

Betsy - your action



FRANK

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

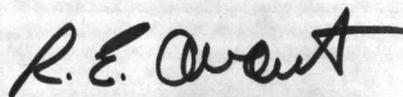
11260  
MAIN

**JUL 19 1984**

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

Subj: ANALYSIS OF WASTE OIL

1. It is requested that the three waste oil tanks at Marine Corps Air Station, old heating plant, be analyzed for the purpose of sale. It is critical that these tanks be analyzed as soon as possible due to limited storage capacity.



R. E. AVANT  
By direction

SECRET  
TOP SECRET

CONFIDENTIAL - SECURITY INFORMATION

CONFIDENTIAL - SECURITY INFORMATION

CONFIDENTIAL - SECURITY INFORMATION

SECRET

11260  
MAIN

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R. E. AVANT  
By direction

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**UNITED STATES MARINE CORPS**  
Natural Resources and Environmental Affairs Division  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:  
NREAD/EAB/th  
5000  
4 May 1984

From: Director  
To: Traffic Management Officer

Subj: Transportation of Laboratory Samples; request for

1. Request shipment of one carton containing 16 used oil samples to Guilford Laboratories, Inc., PO Box 9735, Plaza Station, Greensboro, NC 27408 (919-274-2907), Attn: Debbie Massengill.

*J. I. Wooten*  
J. I. WOOTEN

SHIPMENT RECORD  
FURTHER REFERENCE TO THIS SHIPMENT MUST QUOTE  
THE TRANSPORTATION CONTROL NUMBER (TCN) WHICH  
IS: M31000 4125 0094 XXX





SHIRAZI, B. 1911  
FURTHER REFERENCE TO THE SUBJECT MATTER  
THE TRANSLATION CONTROL NUMBER (TONT) WHICH  
IS:

PACKAGING AND PRESERVATION WORK REQUEST

MCBCL 4030 (REV 3-70)

TO: PRESERVATION, PACKAGING AND PACKING BRANCH, MOWASP DIV., BMATBN, MCB, CLNC

FROM (UNIT) Quality Control Lab. NREAD	DATE 4 May 1984	UNIT PRIORITY DESIGNATOR ASAP
PERSON FAMILIAR WITH WORK REQUESTED Elizabeth Betz	PHONE 451-5977	BLDG NO. Bldg 65

FOLLOWING WORK IS REQUESTED

Package 16 oil samples for shipment by Freight Traffic

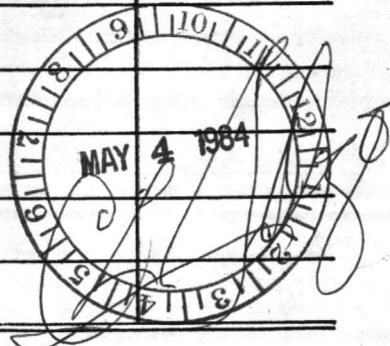
TYPE WORK REQUESTED (X)			TYPE WORK REQUESTED (X)		
(*)PACKAGE AND PRESERVE <input type="checkbox"/>	LEVEL <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	(*)PACK <input type="checkbox"/>	LEVEL <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		
CONSTRUCT	BOXES <input type="checkbox"/> CRATES <input type="checkbox"/>	PAINT AND MARK <input type="checkbox"/>	TACTICAL MARK	<input type="checkbox"/> YES <input type="checkbox"/> NO	

DETAILS (LIST INSIDE DIMENSIONS IF CONSTRUCTION IS DESIRED; COLOR OF PAINT, PATTERN AND NUMBER OF TACTICAL MARK, ANY SPECIAL INSTRUCTIONS)

AAH 32 0468 3228 7/4

DEAD LINE DELIVERY DATE 7 May 1984	WR NO.	SIGNATURE <i>Elizabeth Betz</i>
Spaces On and Below This Line For P&P Use Only	JON CHARGEABLE	P&P CONTROL NO.

WORK MEASUREMENT INFO PROJ 12				WORK MEASUREMENT INFO PROJ 11 & 9% TOTALS (LESS PROJ 12)			
NO. OF ITEMS	TONS	NO. OF PKGS		CUBE	WEIGHT	VEHICLES	BOXES BUILT



IF SPACES MARKED WITH AN ASTERISK (\*) ARE FILLED IN, COMPLETE REVERSE SIDE

LINE ITEMS	NOMENCLATURE	FSN	QUANTITY	UNIT OF ISSUE	NUMBER INTERMEDIATE PACKAGE	NO. OF ITEMS PER PACK	ITEMS PER MULTIPLE PACK NO. OF PACK
1.							
2.							
3.							
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24.							
25.							
26.							
27.							

DATE RECORDED BY P&P BRANCH

PICKED UP BY

DATE COMPLETED BY P&P BRANCH

DATE

AIR STATION TANKS

6241/2A

