

FILE FOLDER

DESCRIPTION ON TAB:

Waste Oil Storage Tanks

As-419; STT-64 / 65

- Outside/inside of actual folder did not contain hand written information**
- Outside/inside of actual folder did contain hand written information**
*Scanned as next image

ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE 11-3-87

TO:

BASE MAINT O

DIR, FAMILY HOUSING

PUBLIC WORKS O

DIR, BACHELOR HOUSING

COMM-ELECT O

BASE FIRE CHIEF

DIR., NAT. RESOURCES & ENV. AFFAIRS

ATTN: Mr. Shayer

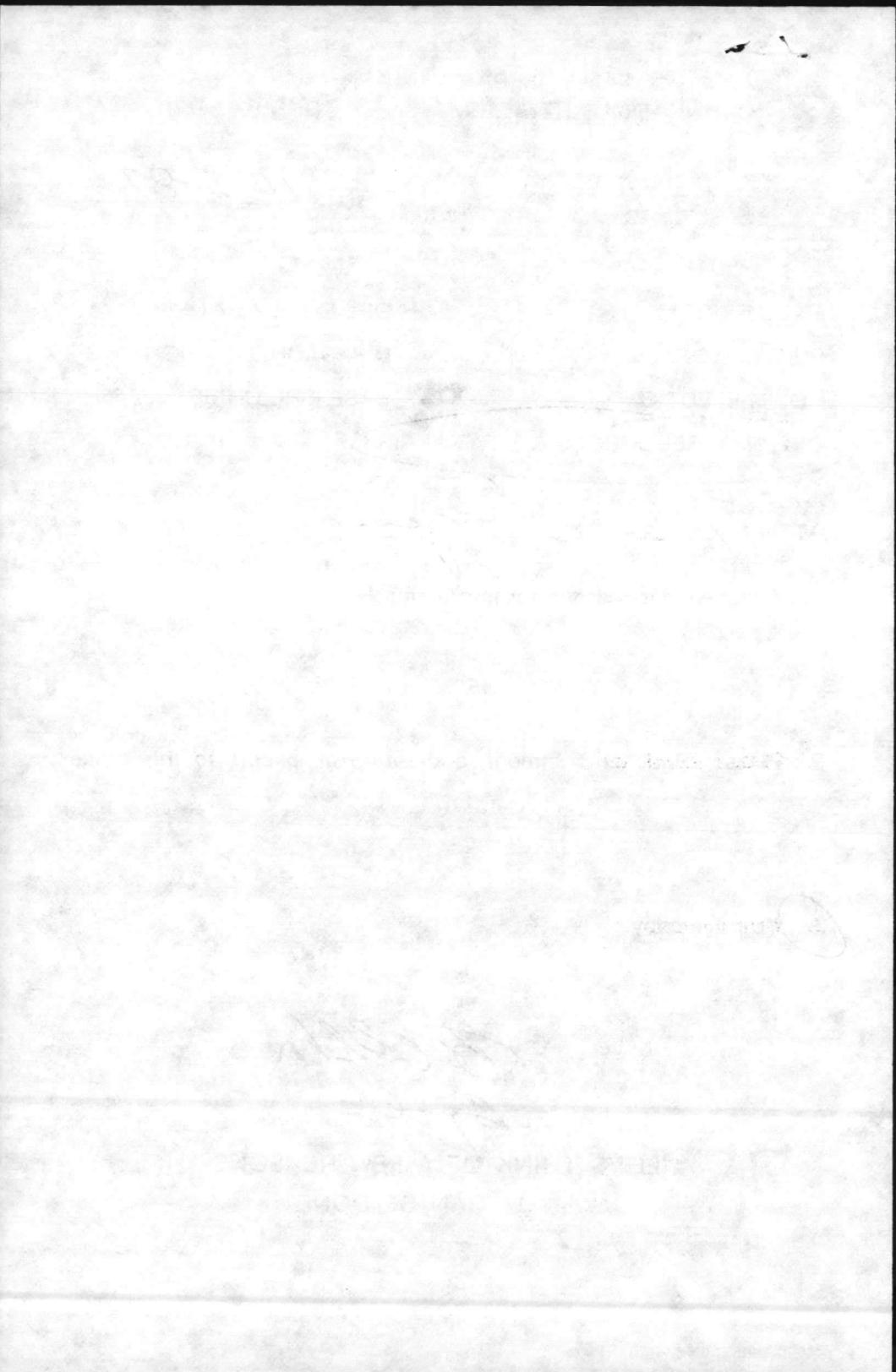
1. Attached is forwarded for info/action.

2. Please initial, or comment, and return all papers to this office.

3. Your file copy.

Becker
By dir

"LET'S THINK OF A FEW REASONS
WHY IT CAN BE DONE"





UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542-5001

IN REPLY REFER TO:

6280
SJA41

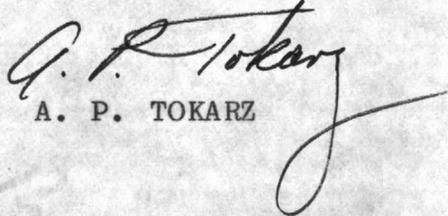
30 OCT 1987

From: Staff Judge Advocate, Marine Corps Base, Camp Lejeune
To: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Lejeune

Subj: DISPOSAL OF HAZARDOUS WASTE FUEL

Ref: (a) CG, MCB ltr 6280/2 Fac of 20Oct87
(b) SJA ltr 6280 SJA41 of 13Oct87

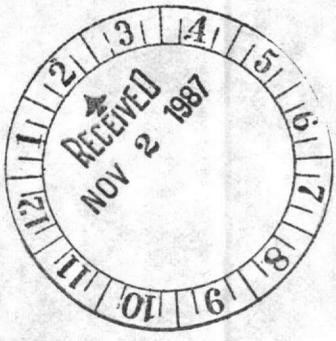
1. In accordance with the reference which requested staff documentation of efforts taken to dispose of the hazardous waste fuel located aboard the installation, this negative report is submitted. No significant action has been taken by this Office regarding this issue since my previous report, reference (b).


A. P. TOKARZ

*See
BWE Requests
on weekly
basis.*

1385





FBI



MARKOV, G. A.

Regarding this issue since my previous report, telephone (P) admitted, no significant action has been taken by this office and I would advise the investigation, this matter which is continuation of efforts taken to identify of the persons who in accordance with the telephone which indicated that

Ref: (P) and (S) 111 8880 22441 of 1306184
(S) CC, KCB 111 8880 8 Etc of 306184

Ref: DIRECTOR OF INVESTIGATION WASHINGTON

Sub Telephone
Washington Office of State, Activities, Military Code Base,
From: State Dept. Telephone, Military Code Base, Sub Telephone

MARKOV
G.A.





UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542-5001

IN REPLY REFER TO:

6280
SJA41

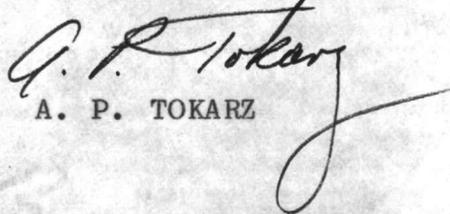
30 OCT 1987

From: Staff Judge Advocate, Marine Corps Base, Camp Lejeune
To: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Lejeune

Subj: DISPOSAL OF HAZARDOUS WASTE FUEL

Ref: (a) CG, MCB ltr 6280/2 Fac of 20Oct87
(b) SJA ltr 6280 SJA41 of 13Oct87

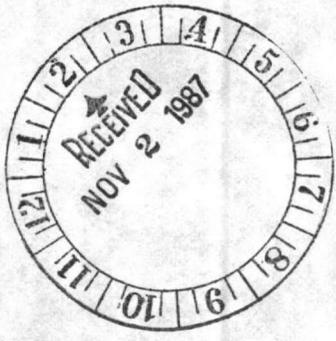
1. In accordance with the reference which requested staff documentation of efforts taken to dispose of the hazardous waste fuel located aboard the installation, this negative report is submitted. No significant action has been taken by this Office regarding this issue since my previous report, reference (b).


A. P. TOKARZ

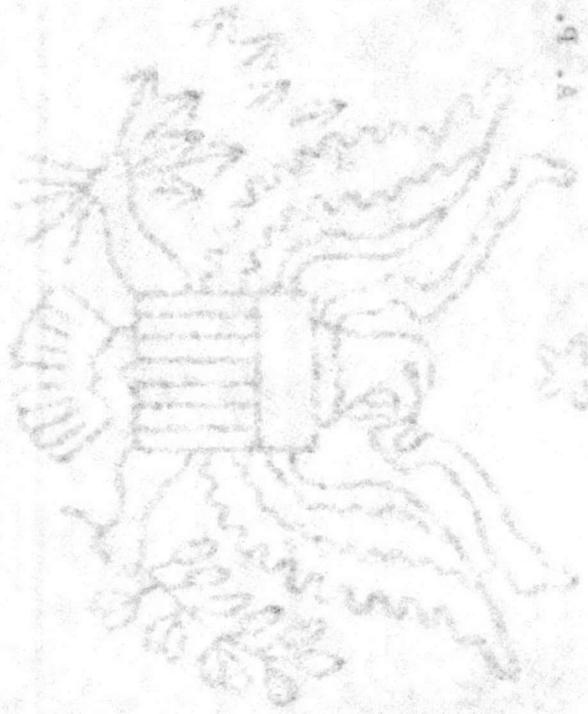


1365





1987



MARKOV, P. A.

Regarding this issue since my previous report, telephone (P) admitted, no significant action has been taken by this office and I would advise the investigation, this negative report is confirmation of efforts taken to dispose of the hazardous waste. In accordance with the telephone which indicated that

(P) advised that case of 130684
sent to the case of 30684

sent: DIRECTOR OF INVESTIGATIONS WASH DC

Sub Telephone

to: Assistant Chief of Staff, Facilities, Marine Corps Base,
Blow: Staff Judge Advocate, Marine Corps Base, Camp Lejeune

ORR
LWAL



Memorandum

6280/2
FAC

DATE: NOV 03 1987

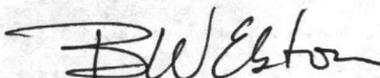
FROM: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Lejeune

TO: Director, Natural Resources and Environmental Affairs
Division

SUBJ: DISPOSAL OF WASTE OIL CHRONOLOGY

Encl: (1) Dir NREAD ltr 6240 NREAD dtd 26 Oct 87
(2) BMO memo 6280 MAIN dtd 26 Oct 87
(3) Log of Actions on Disposition of Oil-DRMO

1. The enclosures are forwarded for your retention as office of record for waste oil management. A copy is being provided to Base Staff Judge Advocate for review/information.


B. W. ELSTON
By direction

Copy to:
SJA

*Separate
file
for This*

22802
100

NOV 8 1957

Assistant Chief of State, Scientific, Marine Corps Base,
Camp Pendleton
Director, Natural Resources and Environmental Control
Division

REPORT OF WADSWORTH CHURCH

- (1) See attached report dated 10/22/57
- (2) See memo dated 11/1/57
- (3) See report on investigation of 10/22/57

The enclosed report of the above named person is
being prepared for review of management. A copy is being
forwarded to the staff of the above named person.
Thank you.

[Handwritten Signature]
S. J. BASTON
By Director

Copy 100
100

Memorandum

6280/2
FAC

NOV 03 1987

DATE: NOV 03 1987

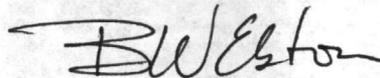
FROM: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Lejeune

TO: Director, Natural Resources and Environmental Affairs
Division

SUBJ: DISPOSAL OF WASTE OIL CHRONOLOGY

Encl: (1) Dir NREAD ltr 6240 NREAD dtd 26 Oct 87
(2) BMO memo 6280 MAIN dtd 26 Oct 87
(3) Log of Actions on Disposition of Oil-DRMO

1. The enclosures are forwarded for your retention as office of record for waste oil management. A copy is being provided to Base Staff Judge Advocate for review/information.


B. W. ELSTON
By direction

Copy to:
SJA

0880
140

NOV 8 1957

Regional Office of State Activities, 1400 North
Camp Street
Director, Natural Resources and Environmental
Division

REPORT OF WASTE TREATMENT

(1) The waste treatment process is
(2) The waste treatment process is
(3) The waste treatment process is
The treatment process is described in the report as
a process for the treatment of waste water. The
process is described in the report as a process for
the treatment of waste water. The process is
described in the report as a process for the
treatment of waste water.

[Handwritten Signature]
S. T. FOSTER
Director

100-100
100

6240
NREAD
26 Oct 87

From: Director, Natural Resources and Environmental Affairs
Division, Marine Corps Base, Camp Lejeune
To: Assistant Chief of Staff, Facilities, Marine Corps Base,
Camp Lejeune

Subj: DISPOSAL OF WASTE OIL

Ref: (a) CG, MCB ltr 6280/2 FAC of 2 Oct 87

Encl: (1) Log of NREAD Waste Oil Management Activity

1. The enclosure is provided per the reference.

J. I. WOOTEN

WASTE OIL MANAGEMENT ACTIVITY LOG

19 Oct 1987

1. Waste Conversion, Incorporated pumped 5,000 gallons of hazardous waste oil from tank S-781 at Building 45.
2. The Environmental Chemistry and Microbiology Section sampled seven individual waste oil tanks at MAG 26, MCAS, New River.
3. NREAD began daily inspections of waste oil tanks used by Base Maintenance Officer for central storage of waste oil contaminated by halogens. Numerous problems with leaking piping and valves have been identified. Base Safety Office is assisting with preliminary evaluation of the facilities to include insulation and possible asbestos problems. Many of the discrepancies have been brought to the attention of Mr. L. D. Shepard. A thorough review of each facility with a Roads and Grounds Foreman is scheduled for the week of 26 October 1987. The findings of inspection to date, will be formally forwarded in writing to the Base Maintenance Officer.
4. Analysis of STT-64, STT-65 and STT-66 were sent to BMO and DRMO. STT-64 and STT-65 contained over 1000 ppm TOX. BMO advised that STT-64 and STT-65 were filled.

20 Oct 1987

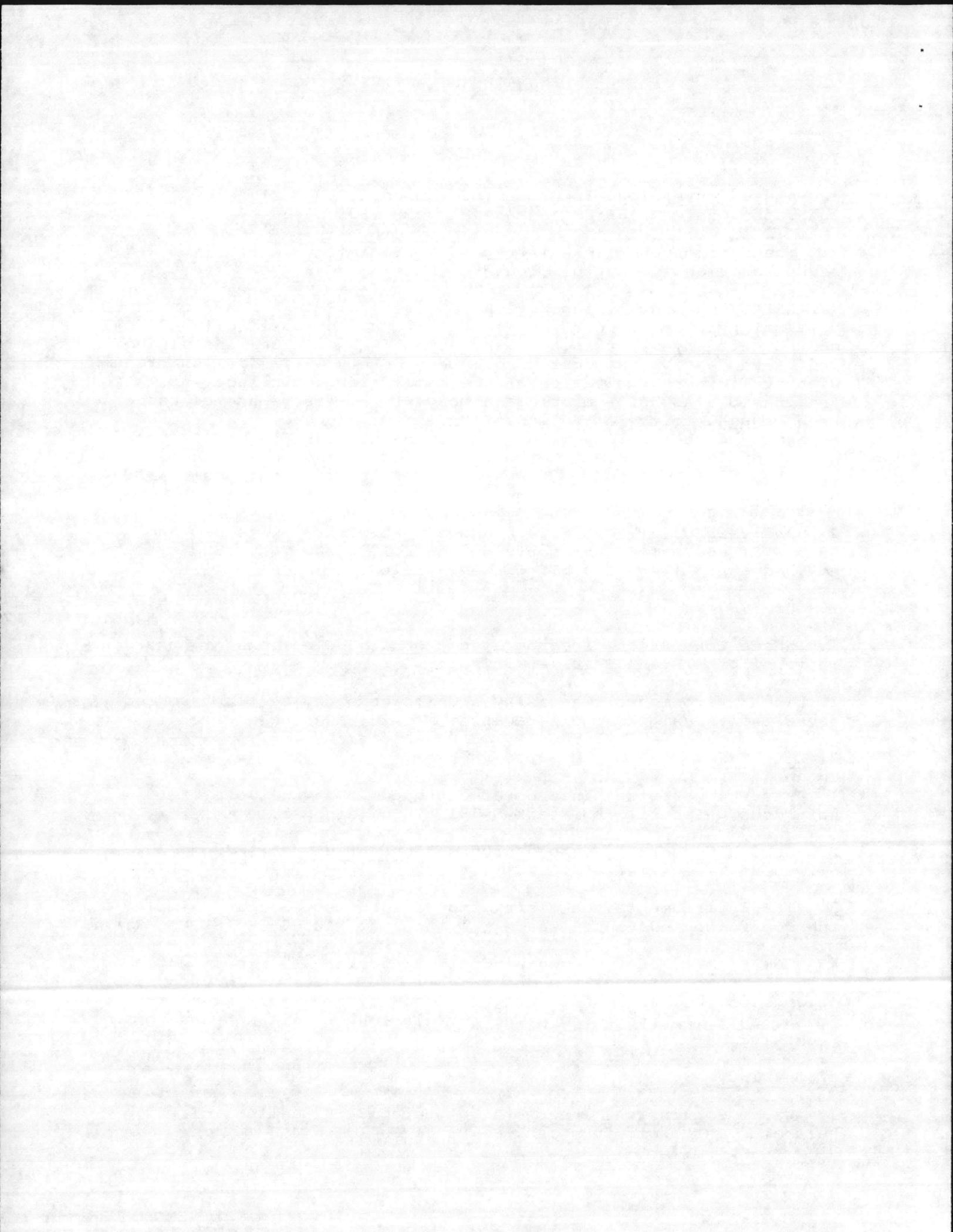
1. Waste Conversion, Incorporated pumped 5300 gallons of hazardous waste oil from tank S-781 at Building 45.
2. The Environmental Chemistry and Microbiology Section sampled seven individual waste oil tanks at MAG 29, MCAS, New River.

21 Oct 1987

1. Waste Conversion, Incorporated pumped 15,450 gallons of hazardous waste oil from tank S-781 at Building 45.
2. Auburn University pumped 6500 gallons of used oil from tank STT-63 at Tarawa Terrace.
3. The Environmental Chemistry and Microbiology Section sampled the remaining individual waste oil tanks at MAG 29, MCAS, New River.
4. Tom Barbee, Environmental Control Specialist, experimented with the test kits for the determination of Chlorine in used oil, on some of the tanks previously analyzed by JTC Environmental Consultants, Incorporated. The correlation of data appears very promising.

22 Oct 1987

1. Waste Conversion, Incorporated pumped 8,187 gallons of hazardous waste oil from tank S-781 at Building 45.



23 Oct 1987

1. Waste Conversion, Incorporated pumped 10,200 gallons of hazardous waste oil from tank S-781 at Building 45, and 8,950 gallons from tank AS-421 at MCAS, New River.
2. Tank S-781 is empty, except for the sludge residues at the bottom.
3. Glenee Smith, NREAD, accompanied Tex Ritter, Base Safety on a safety inspection of the waste oil storage tank facilities located at Holcomb Boulevard, Tarawa Terrace, and MCAS, New River.
4. Tom Barbee and Manuel Martin, NREAD, measured the dimensions and depths of the waste oil tanks at Holcomb Boulevard and MCAS.
5. TOX test kits were received by Inspector's Office.

Memorandum

6280
MAIN

DATE: 26 Oct 87

FROM: Base Maintenance Officer

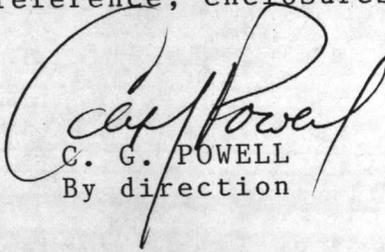
TO: Assistant Chief of Staff, Facilities

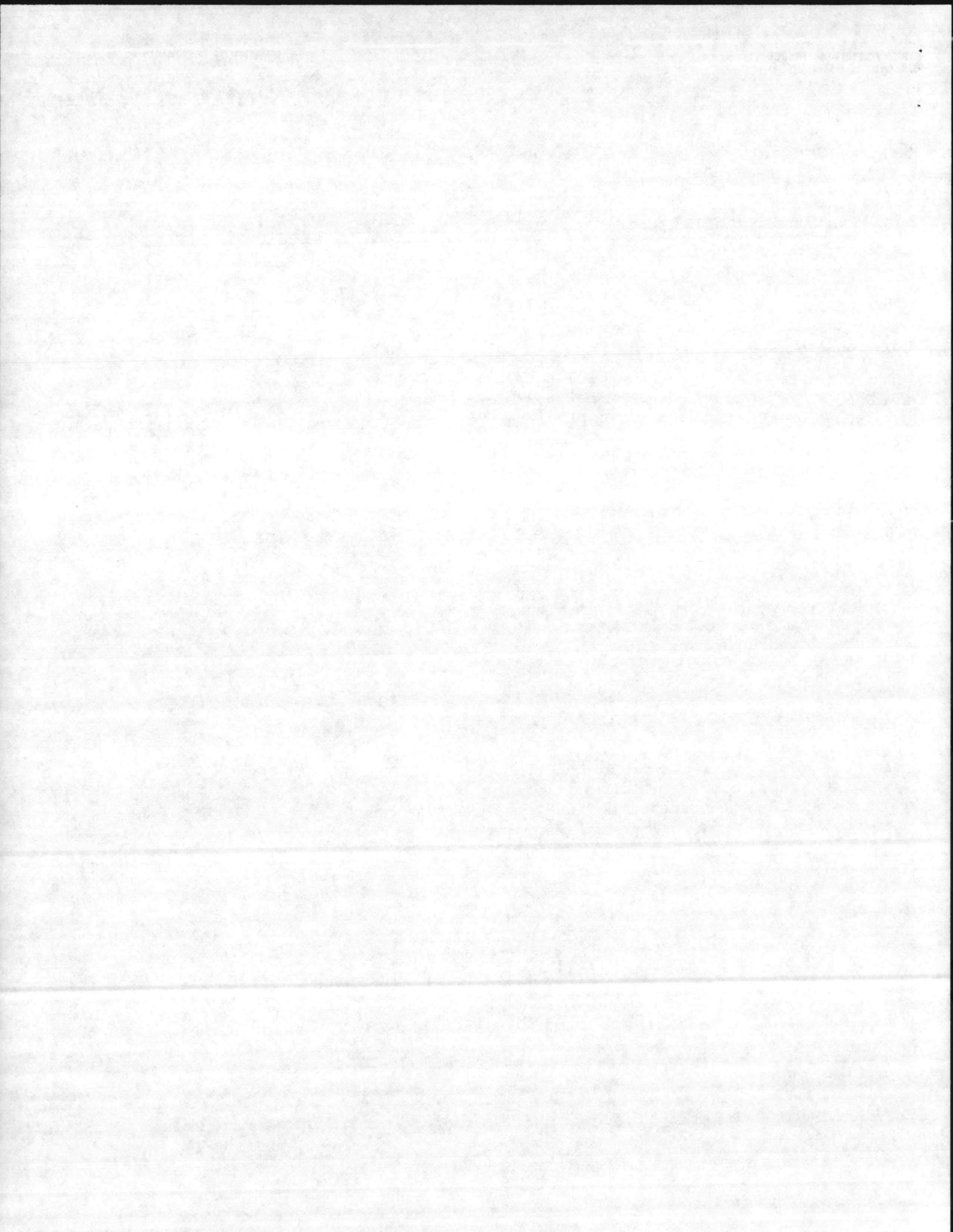
SUBJ: DISPOSAL OF WASTE OIL

Ref: (a) CG memo 6280/2 Fac of 2 Oct 87

Encl: (1) Waste Oil Log, Heavy Equipment Section
(2) Waste Oil Log, Utilities Branch
(3) Waste Oil Log, Property Section

1. As requested by the reference, enclosures (1) through (3) are provided.


C. G. POWELL
By direction



10.19.87

Requested tanks 5TT-64 and 5TT-65 be sampled, Analysis conducted, and disposed of AS soon as possible.

10.20.87

No word on waste oil

10.21.87

Truck at Building #45 picking up waste oil at 5-781. Cleaning up around Tank at 5-781. Mike Riley with DRMO stole oil out of 5TT-63 but about 6."

10.22.87

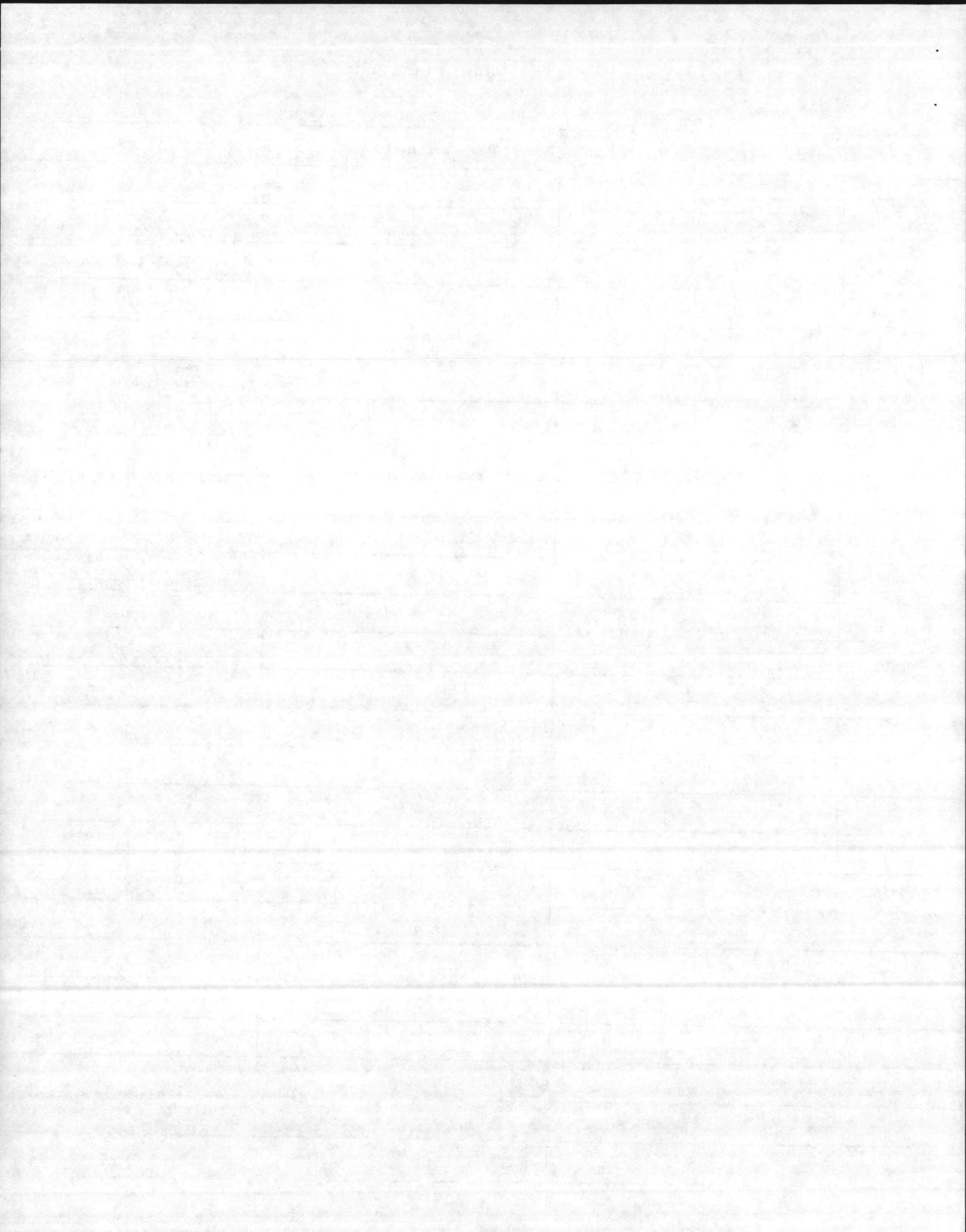
Truck as at 5-781 picking up waste oil from TANKS. No word on any other waste oil.

10.23.87

George Agos called and wanted to know about moving Caplin from Bldg #45 to AS 419 420 421. Requested George Pump one at AS Empty.

No word on any other waste oil

L. D. Shepard stated the gate was left open at TT storage site. Confirmed him above no knowledge of it but, NREA, Fire Dept, DRMO, and he has key to Area.



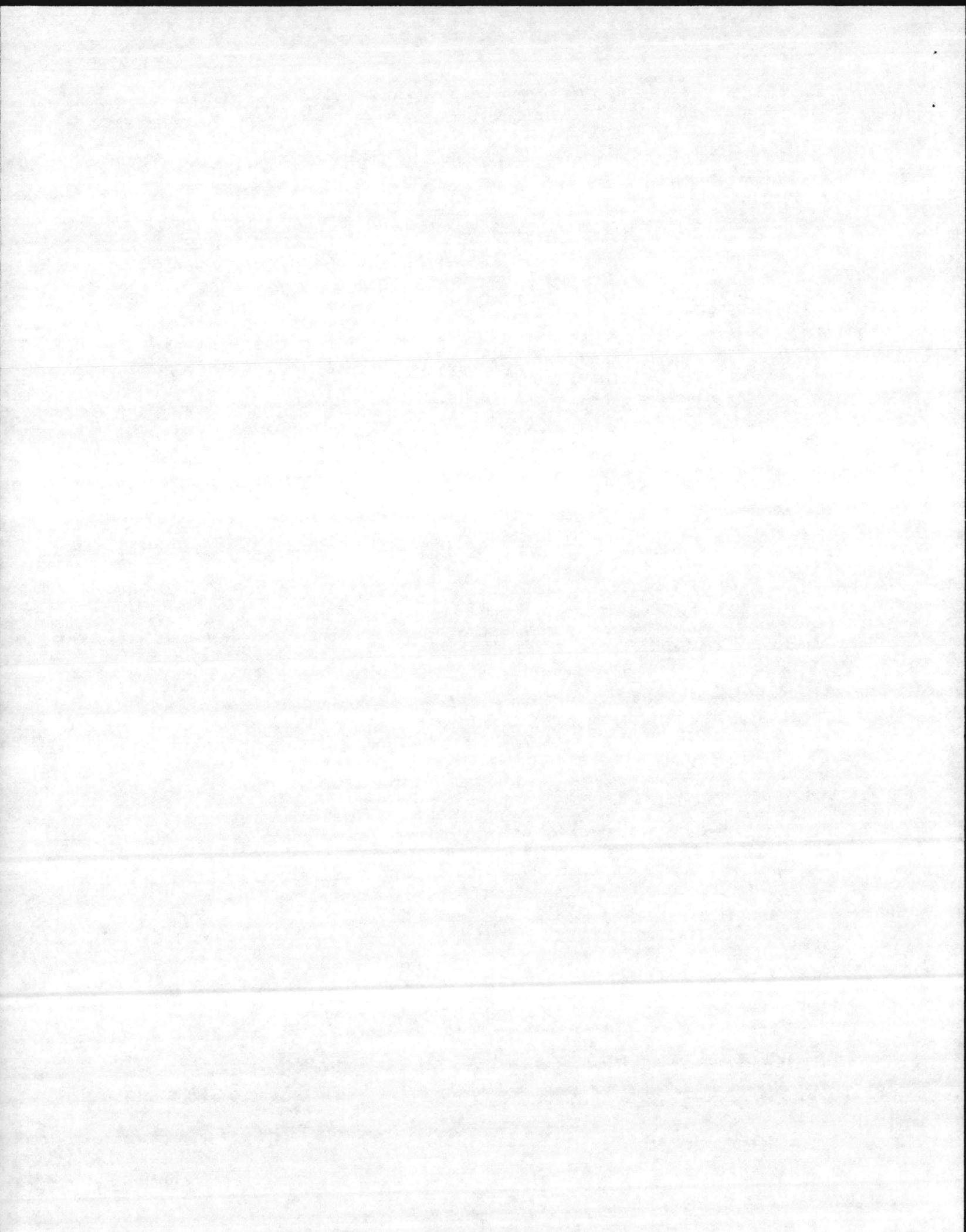
DAVID K. BULLOCK (HANDO)
Base Maint. Div.
Week of 19-23 Oct 87

19 Oct 87 Recd memo from Mr. GUSMANIS requesting chemical analysis of tanks number STT 64 & STT-65. Prepared memo to National Resources requesting analysis of the two (2) tanks be expedited and analysis report forwarded to [redacted] for [redacted] action of contents be prepared [redacted].

Mr. BAKER, [redacted] said that he was contacted by Mrs. Hipp ORIN concerning the 500 [redacted] tanks at [redacted]. Mrs. Hipp said that this [redacted] was [redacted] and is [redacted] to 55 gal drums. [redacted] in disposal document, FMM3182 7219-0007 to Mrs Hipp for action.

20 Oct 87 - No action pertaining to FMM/HW

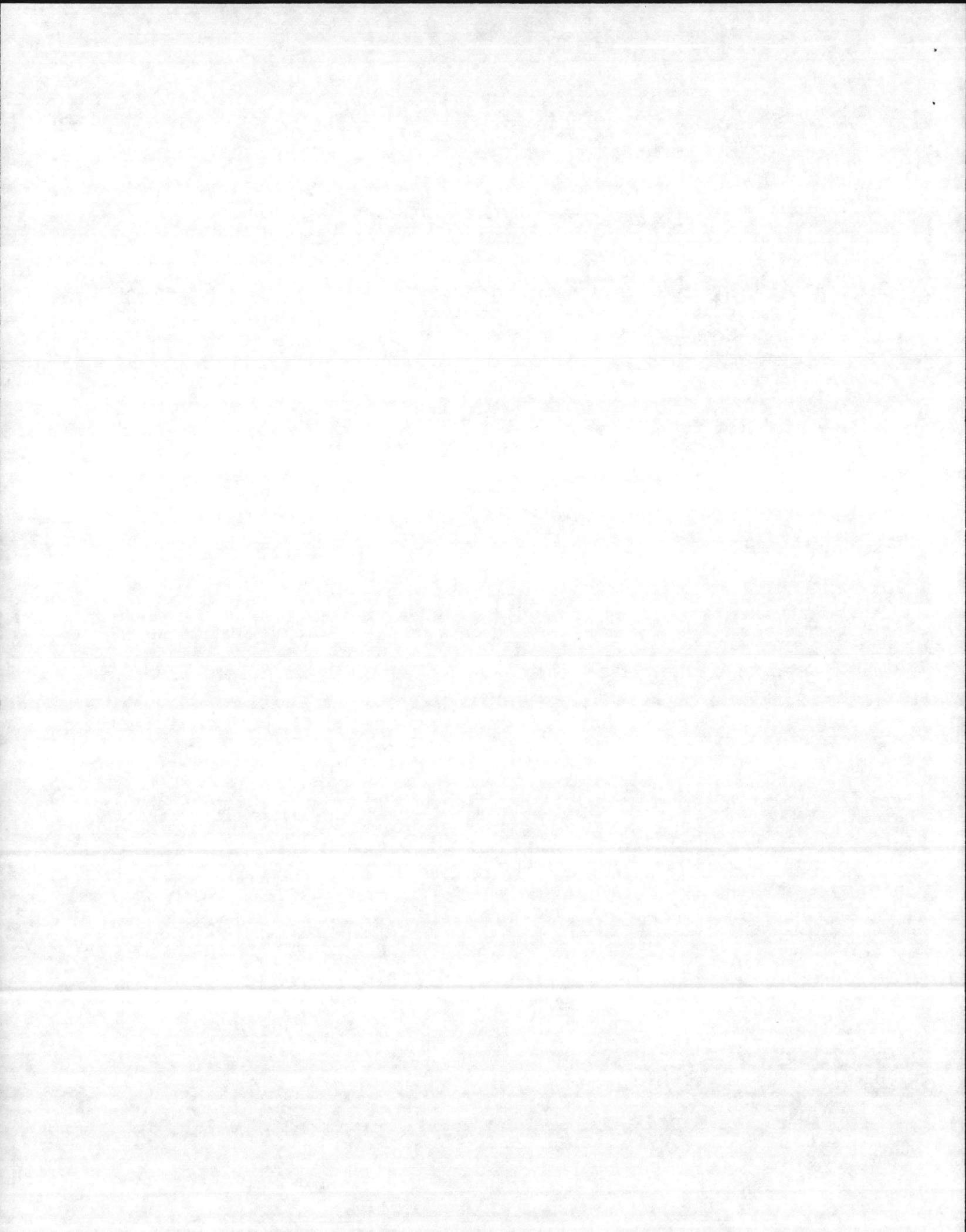
21 Oct 87 Mr. Powell inform me that the request for analysis of tanks STT 64 & 65 had been return to his office. He further stated that follow-up action to have on up to date analysis would be conducted by himself.



DAVID K. Bullock (HMDO)
Base Maint Div.
week of 19-23 Oct 87

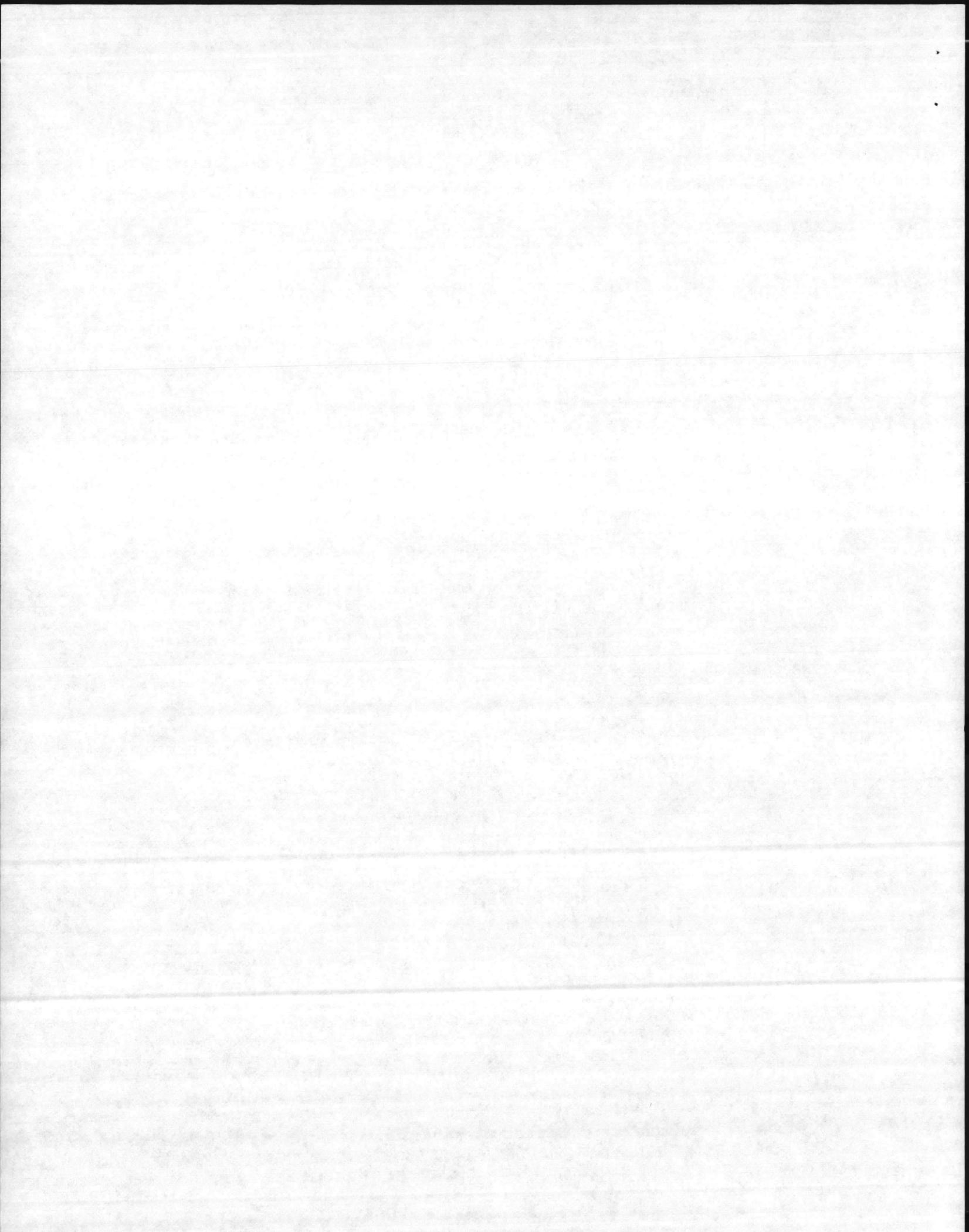
20 Oct 87 - Assist MR Gwynn in informal HW inspection
of Base Maintenance during the period of
0830-1200.

23 Oct 87 - Rec'd request from ~~my~~ MR. PARKER (Paint Shop)
requesting disposal of 1 drum of kerosene
contaminated with paint (HW).

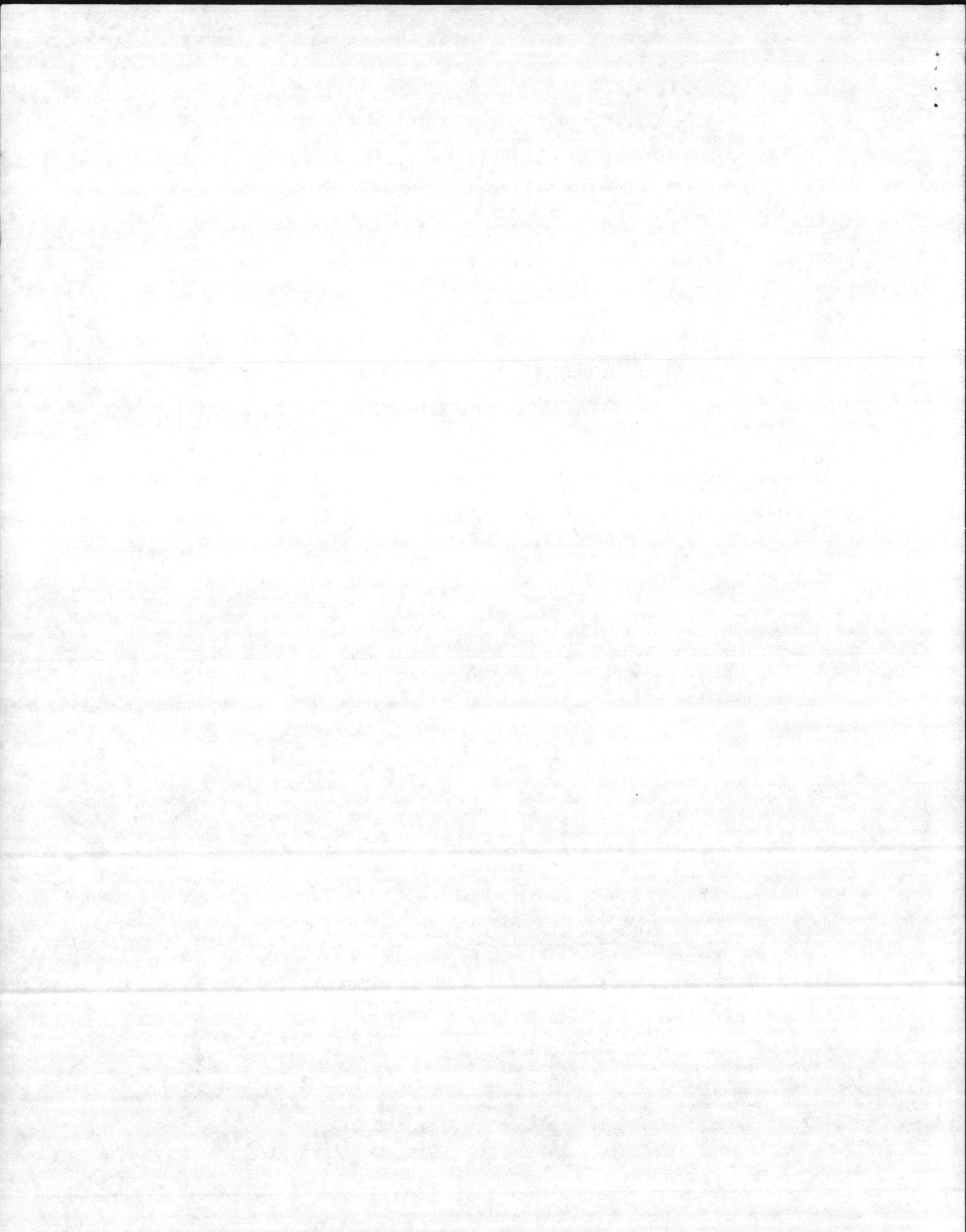


LOG OF ACTIONS ON DISPOSITION OF OIL - DRMO

- 6 Oct 87 0900 Phonecon J. Dempsey/Hipp - Requested emergency funding for disposal of 60,000 gallons of waste oil at the New River Air Station.
- 6 Oct 87 Indorsed Base Logistics letter to Region for action. Requested emergency funding for all oil stored at the Camp Lejeune Complex.
- 7 Oct 87 Phonecon J. Dempsey/Hipp - Battle Creek to fax funding approval on 30,000 gallons at New River Air Station oil today to Memphis. She is also requesting emergency funding for remaining 192,000 gallons at tank 45. The entire tank was funded (272,000 gal) until contractor had sample done and found too many ppm's of halogen in the oil. They negotiated with Battle Creek on price. Was .82¢ per gallon to remove - now \$2.69 to remove, thus reducing the gallons funded from 272,000 to 80,000 from tank 45. The current contract expires tomorrow but they will extend. The new contract will let shortly and remaining oil will be included in it. She doesn't feel there will be any problem in removing all oil by 1 Dec 87.
- Thru
- 7 Oct 87 - Thru this day Waste Conversion has removed 41,382 gallons from tank 45.
- 8 Oct 87 Phonecon Hipp/Dempsey - Funding approved for additional 192,000 gallons waste oil from tank 45. Order will go to waste conversion in writing today for confirmation. It is OK for them to remove 30,000 from air station if we forgo removal of 30,000 from tank 45 if the contractor agrees. She is working for the funding on the additional 30,000 gal.
- 8 Oct 87 Phonecon Jim Brennon, Waste Conversion/Hipp - He understood it was 30,000 in addition to the 192,000 if so - no problem to remove first. If not, he needs to talk to his people as there may be problems with the analysis. He will let me know for sure tomorrow or Tuesday.
- 9 Oct Waste Conversion picked up 10,000 gallons of oil, Tank 45. Total 51,382.
- 9 Oct 87 Phonecon J. Brennon, Waste Conversion/Hipp - Received funding approval doc from Memphis for 60,000 gallons at Air Station and also remaining oil at tank 45. - Will start at Air Station within next couple of weeks.
- 13 Oct 87 Total removed to date 70,882, gallons removed by Waste Conversion 0844 AM. Will have truckers in today.



13 OCT 87	Waste Conversion removed 15,100 gallons - Total 85,982.
14 OCT 87	Waste Conversion removed 25,200 gallons - Total 111,182.
15 OCT 87	Waste Conversion removed 20,000 gallons - Total 131,182.
19 OCT 87	Waste Conversion removed 5,000 gallons - Total 136,182.
20 OCT 87	Waste Conversion removed 5,300 gallons - Total 141,482.
21 OCT 87	Waste Conversion removed 15,450 gallons - Total 156,932.
22 OCT 87	Waste Conversion removed 8,187 gallons - Total 165,119.
23 OCT 87	Waste Conversion removed 10,200 gallons from Tank 45 and 8,950 from the Air Station - Total 184,269.



6241/2
NREAD
15 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)

DBS
ECO
C/EM

1933

1933
1934
1935

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
DOC. IDENT.	RI FROM	M & S	STOCK NUMBER	QUANTITY	DOCUMENT NUMBER	SUPPLEMENTARY ADDRESS	FUND	DISTRIBUTION	PROJECT	PRIORITY	REQ'D DEL DATE	ADVICE	BI	UNIT PRICE																																																																	
B7J	B7J	B7J	915000	WASTE OIL	GL 18000	M93182	7307	0002	14	NA	H	40	40																																																																		
SHIPPED FROM	SHIP TO	MARK FOR	PROJECT	TOTAL PRICE	Natural Resources & Environmental Affairs Division, MCB, Camp Lejeune, NC	DRMO, MCB, CLNC	HW	D	E	DOLLARS	CTS.																																																																				
WAREHOUSE LOCATION	TYPE OF CARGO	UNIT PACK	UNIT WEIGHT	UNIT CUBE	U F C	N M F C	FREIGHT RATE	DOCUMENT DATE	MAT. COND	QUANTITY	S																																																																				
F	G	H	I	J	K	L	M	N	O	P	Q	R	S																																																																		
SUBSTITUTE DATA (ITEM ORIGINALLY REQUEST'D)	FREIGHT CLASSIFICATION NOMENCLATURE	ITEM NOMENCLATURE	CONTENTS OF TANK	T	U	V	WASTE OIL	Y	17 NOV 1987 14 14																																																																						
SELECTED BY AND DATE	TYPE OF CONTAINER(S)	TOTAL WEIGHT	RECEIVED BY AND DATE	INSPECTED BY AND DATE	SHIPS	2	3	7	8																																																																						
PACKED BY AND DATE	NO. OF CONTAINER(S)	TOTAL CUBE	WAREHOUSED BY AND DATE	WAREHOUSE LOCATION	1	4	5	6	9	10																																																																					
REMARKS:	AA	BB	CC	DD	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.																																																																										
FIRST DESTINATION ADDRESS	DATE SHIPPED	13 TRANSPORTATION CHARGEABLE TO	14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)	15 RECEIVER'S DOCUMENT NUMBER	11	12	FF	GG																																																																							
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	J. I. WOOTEN																																																																											

13 NOV 1964

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
DOC. IDENT.		RI FROM		M & S		STOCK NUMBER										QUANTITY		DOCUMENT NUMBER										SUPPLEMENTARY ADDRESS		FUND		DISTRIBUTION		PROJECT		PRI. ORY		REQ'D DEL DATE		ADVICE		RI		UNIT PRICE																																			
B7J E3X XXXX						915000 WASTE OIL										GL 15800M		931827307 0003																		14 NA						H		40																																			
SHIPPED FROM												SHIP TO												MARK FOR		PROJECT		TOTAL PRICE																																																			
Natural Resources & Environmental Affairs Division, MCB, Camp Lejeune, NC												DRMO, MCB, CINC												HW				DOLLARS CTS.																																																			
WAREHOUSE LOCATION												TYPE OF CARGO		UNIT PACK		UNIT WEIGHT		UNIT CUBE		U F C		N M F C		FREIGHT RATE		DOCUMENT DATE		MAT. COND.		QUANTITY		TOTAL PRICE																																															
F												G		H		I		J		K		L		M		N		O		P		Q		R		S																																											
SUBSTITUTE DATA (ITEM ORIGINALLY REQUESTED)												FREIGHT CLASSIFICATION NOMENCLATURE																																																																			
T												U																																																																			
												ITEM NOMENCLATURE																																																																			
												WASTE OIL																CONTENTS OF TANK 18STT-65																																																			
W												X																																																																			
SELECTED BY AND DATE				TYPE OF CONTAINER(S)				TOTAL WEIGHT				RECEIVED BY AND DATE				INSPECTED BY AND DATE																																																															
1				2				3				7				8																																																															
PACKED BY AND DATE				NO. OF CONTAINER(S)				TOTAL CUBE				WAREHOUSED BY AND DATE				WAREHOUSE LOCATION																																																															
4				5				6				9				10																																																															
REMARKS:																																																																															
AA												BB												CC		DD		EE		FF		GG																																															
FIRST DESTINATION ADDRESS												DATE SHIPPED																																																																			
11												12												13		14		15																																																			
TRANSPORTATION CHARGEABLE TO												B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)														RECEIVER'S DOCUMENT NUMBER																																																					
																										J. I. WOOTEN																																																					

13 JUN 1961 VI

FORM NO. 100 (REV. 1-1-60)

PROPERTY OF THE U.S. GOVERNMENT

UNITED STATES DEPARTMENT OF THE ARMY

PROPERTY ACCOUNTING REPORT

FORM NO. 100 (REV. 1-1-60)

PROPERTY OF THE U.S. GOVERNMENT

UNITED STATES DEPARTMENT OF THE ARMY

PROPERTY ACCOUNTING REPORT

FORM NO. 100 (REV. 1-1-60)

PROPERTY OF THE U.S. GOVERNMENT

UNITED STATES DEPARTMENT OF THE ARMY

PROPERTY ACCOUNTING REPORT

AT THE END OF THE YEAR

* U.S. GOVERNMENT PRINTING OFFICE: 1982-361-228/V-149

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
DOC. IDENT.		RI FROM		M & S		STOCK NUMBER				UNIT OF ISSUE		QUANTITY		DOCUMENT NUMBER				SUPPLEMENTARY ADDRESS		FUND		DISTR. BUTION		PROJ. ECT		PRI. ORTY		REQ'D DEL. DATE		ADVCE		RI		UNIT PRICE																																													
B7J						915000 WASTE OIL				GL		18000M93182 7307 0002														14		NA		H		40																																															
SHIPPED FROM Natural Resources & Environmental Affairs Division, MCB, Camp Lejeune, NC												SHIP TO DRMO, MCB, CLNC												MARK FOR HW		PROJECT		TOTAL PRICE DOLLARS CTS.																																																			
A												B												C		D		E																																																			
WAREHOUSE LOCATION				TYPE OF CARGO		UNIT PACK		UNIT WEIGHT		UNIT CUBE		U F C		N M F C		FREIGHT RATE		DOCUMENT DATE		MAT. COND		QUANTITY																																																									
F				G		H		I		J		K		L		M		N		O		P		Q		R		S																																																			
SUBSTITUTE DATA (ITEM ORIGINALLY REQUESTED)												FREIGHT CLASSIFICATION NOMENCLATURE																																																																			
T												U																																																																			
												ITEM NOMENCLATURE																																																																			
W												X WASTE OIL																																																																			
SELECTED BY AND DATE				TYPE OF CONTAINERS				TOTAL WEIGHT				RECEIVED BY AND DATE				INSPECTED BY AND DATE																																																															
1				2				3				7				8																																																															
PACKED BY AND DATE				NO. OF CONTAINERS				TOTAL CUBE				WAREHOUSED BY AND DATE				WAREHOUSE LOCATION																																																															
4				5				6				9				10																																																															
REMARKS:												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.																																																																			
AA						BB						CC																																																																			
FIRST DESTINATION ADDRESS												DATE SHIPPED																																																																			
11												12																																																																			
13 TRANSPORTATION CHARGEABLE TO												14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)												15 RECEIVER'S DOCUMENT NUMBER																																																							
												J. I. WOOTEN																																																																			

ENCLOSURE (1)

ENCLOSURE (1)

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

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
DOC. IDENT.		RI FROM		M AS		STOCK NUMBER		ADD		UNIT OF ISSUE		QUANTITY		DOCUMENT NUMBER		SERIAL		SUPPLEMENTARY ADDRESS		FUND		DISTRIBUTION		PROJECT		REQ'D DEL DATE		ADVISE		RI		UNIT PRICE																																															
B7J						915000 WASTE OIL		GL		22200M		931827307		0004										14 NA				H		40																																																	
SHIPPED FROM										SHIP TO										MARK FOR					PROJECT					TOTAL PRICE																																																	
Natural Resources & Environmental Affairs Div, MCB, Camp Lejeune, NC										DRMO, MCB CLNC										HW										DOLLARS CTS.																																																	
WAREHOUSE LOCATION										TYPE OF CARGO		UNIT PACK		UNIT WEIGHT		UNIT CUBE		U F C		N M F C		FREIGHT RATE		DOCUMENT DATE		MAT. COND.		QUANTITY																																																			
F										G		H		I		J		K		L		M		N		O		P		Q		R		S																																													
SUBSTITUTE DATA (ITEM ORIGINALLY REQUEST'D)										FREIGHT CLASSIFICATION NOMENCLATURE																																																																					
T										U WASTE OIL										V																																																											
										ITEM NOMENCLATURE										CONTENTS OF TANK #AS 419																																																											
W										X										Y																																																											
SELECTED BY AND DATE					TYPE OF CONTAINER(S)					TOTAL WEIGHT					RECEIVED BY AND DATE					INSPECTED BY AND DATE																																																											
1					2					3					7					8																																																											
PACKED BY AND DATE					NO. OF CONTAINER(S)					TOTAL CUBE					WAREHOUSED BY AND DATE					WAREHOUSE LOCATION																																																											
4					5					6					9					10																																																											
REMARKS:										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.																																																																					
AA										BB										CC																																																											
FIRST DESTINATION ADDRESS										DATE SHIPPED										FF																																																											
11										12										GG																																																											
13 TRANSPORTATION CHARGEABLE TO										14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)										15 RECEIVER'S DOCUMENT NUMBER																																																											
										J. I. WOOTEN																																																																					

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:

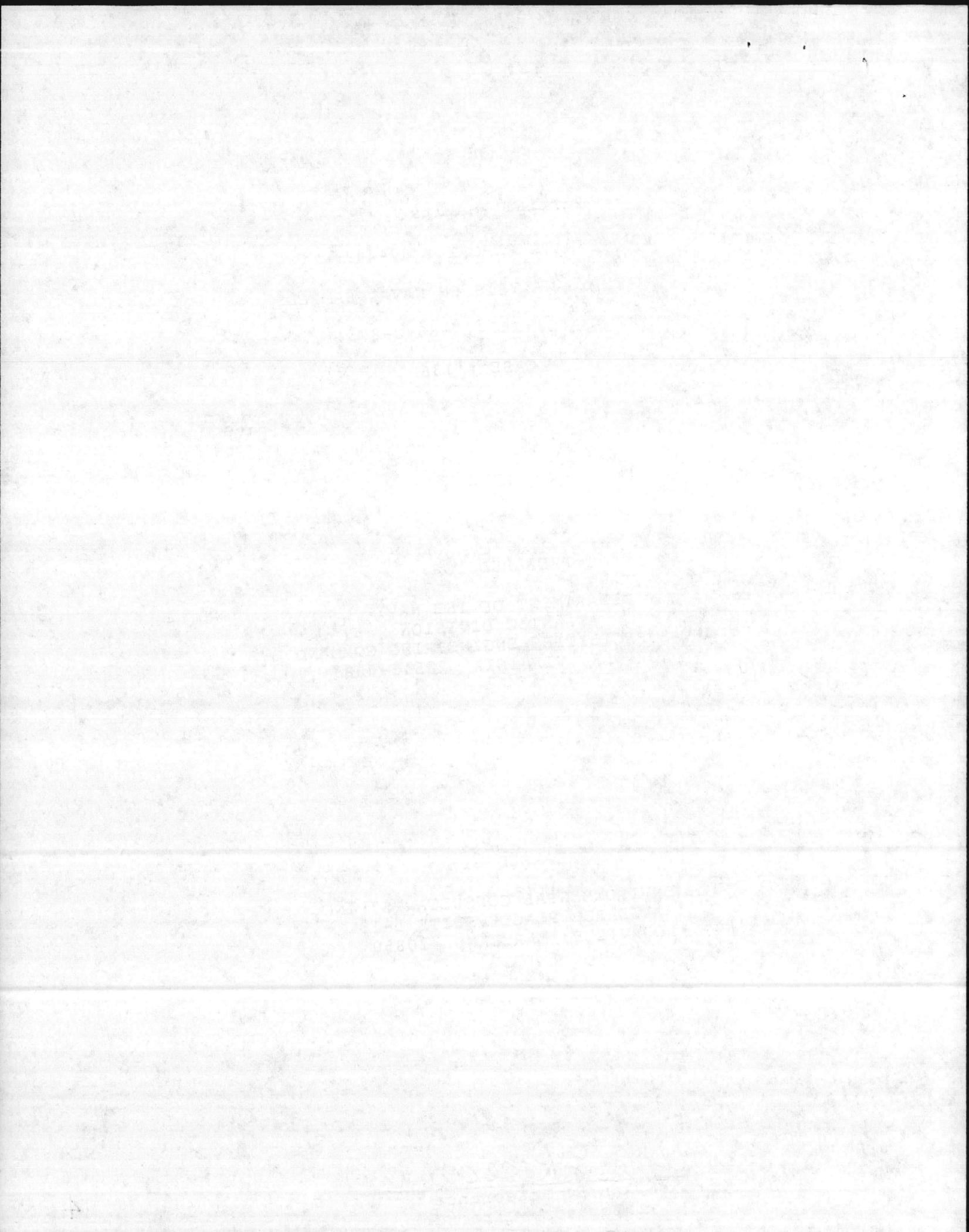
JTC ENVIRONMENTAL CONSULTANTS, INC.
4 RESEARCH PLACE, SUITE L-10
ROCKVILLE, MARYLAND 20850

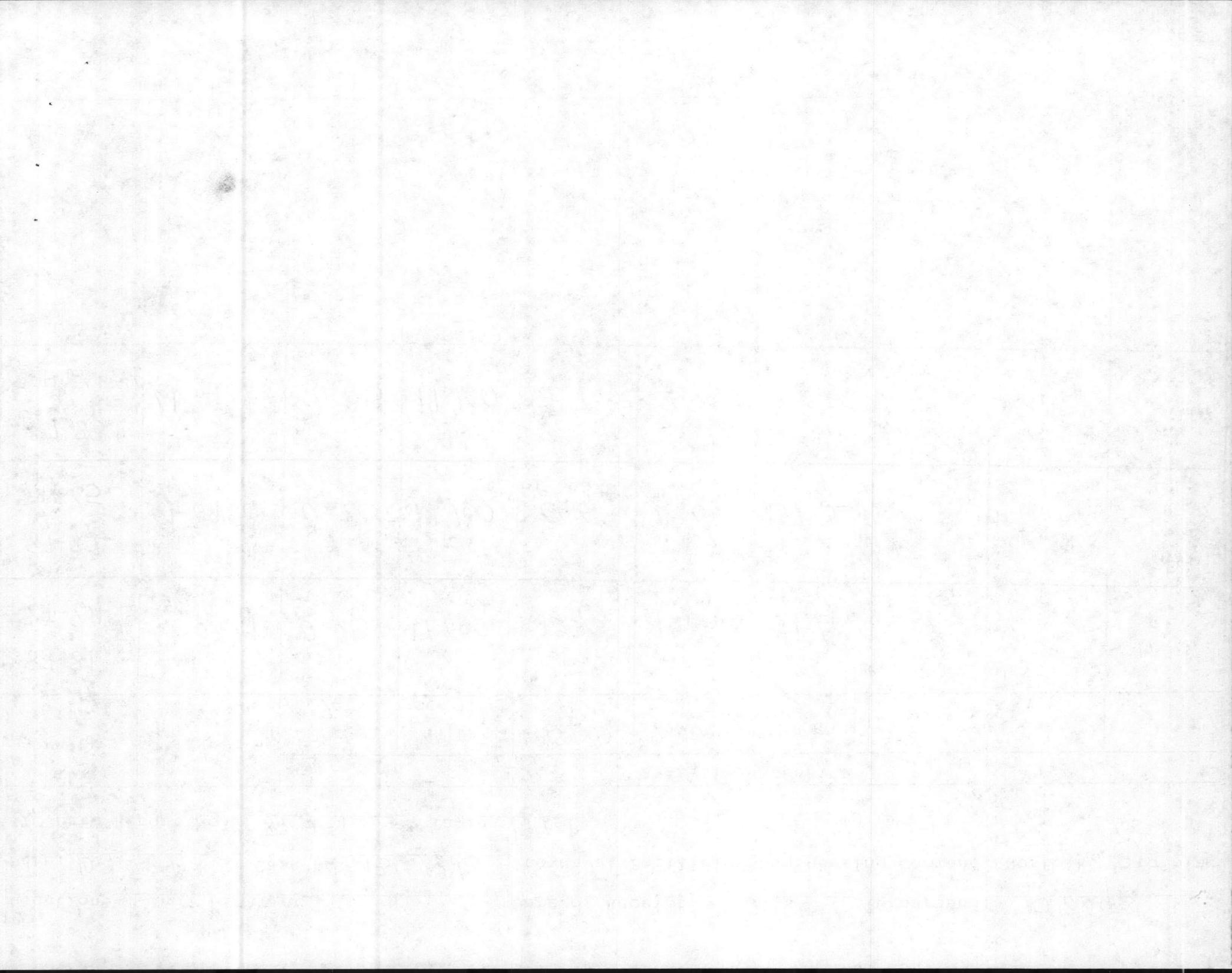
OCTOBER 5, 1987

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

ENCLOSURE (4)





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)

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 309

LECTURE 10

THE HADRON SPECTRUM

PROFESSOR RICHARD FEYNMAN

WINTER 1962

LECTURE 10

THE HADRON SPECTRUM

PROFESSOR RICHARD FEYNMAN

WINTER 1962

LECTURE 10

THE HADRON SPECTRUM

PROFESSOR RICHARD FEYNMAN

WINTER 1962

LECTURE 10

THE HADRON SPECTRUM

PROFESSOR RICHARD FEYNMAN

WINTER 1962

LECTURE 10

THE HADRON SPECTRUM

PROFESSOR RICHARD FEYNMAN

WINTER 1962

LECTURE 10

1-12
20

140

20

02 NOV 1987

Addendum A

JTC DATA REPORT # 87-441

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE #136

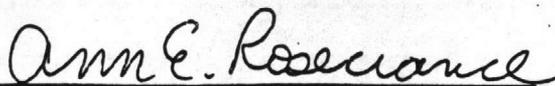
PREPARED FOR:

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
Laboratory Director

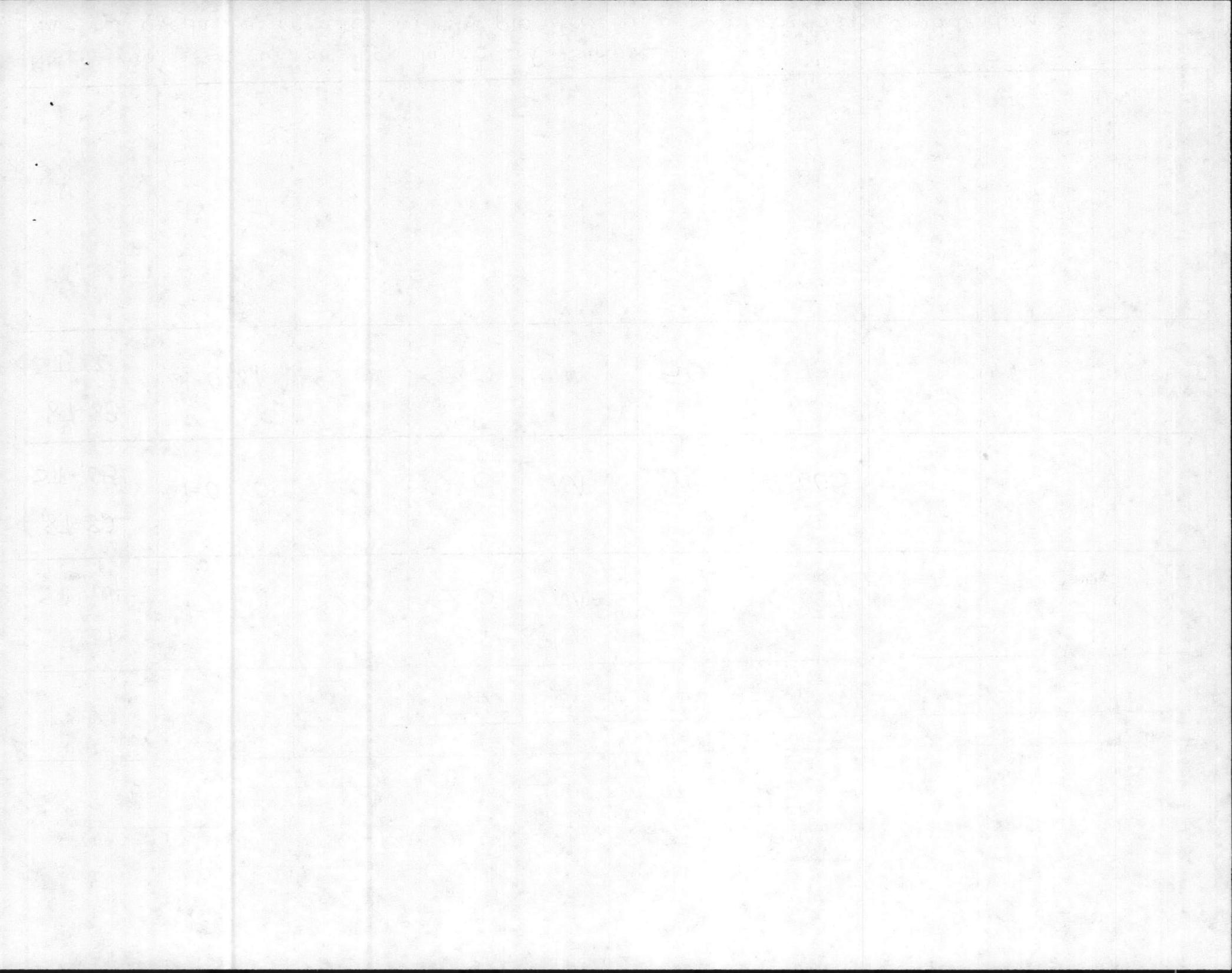
Location: Camp Lejeune Date of Receipt: 9-21-87 Turnaround: routine

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 5II-64	61-0979	<20	<2.0	NA	58	0.697		
87-82 5II-65	61-0980	<20	<2.0	NA	54	0.605		
87-83 5II-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

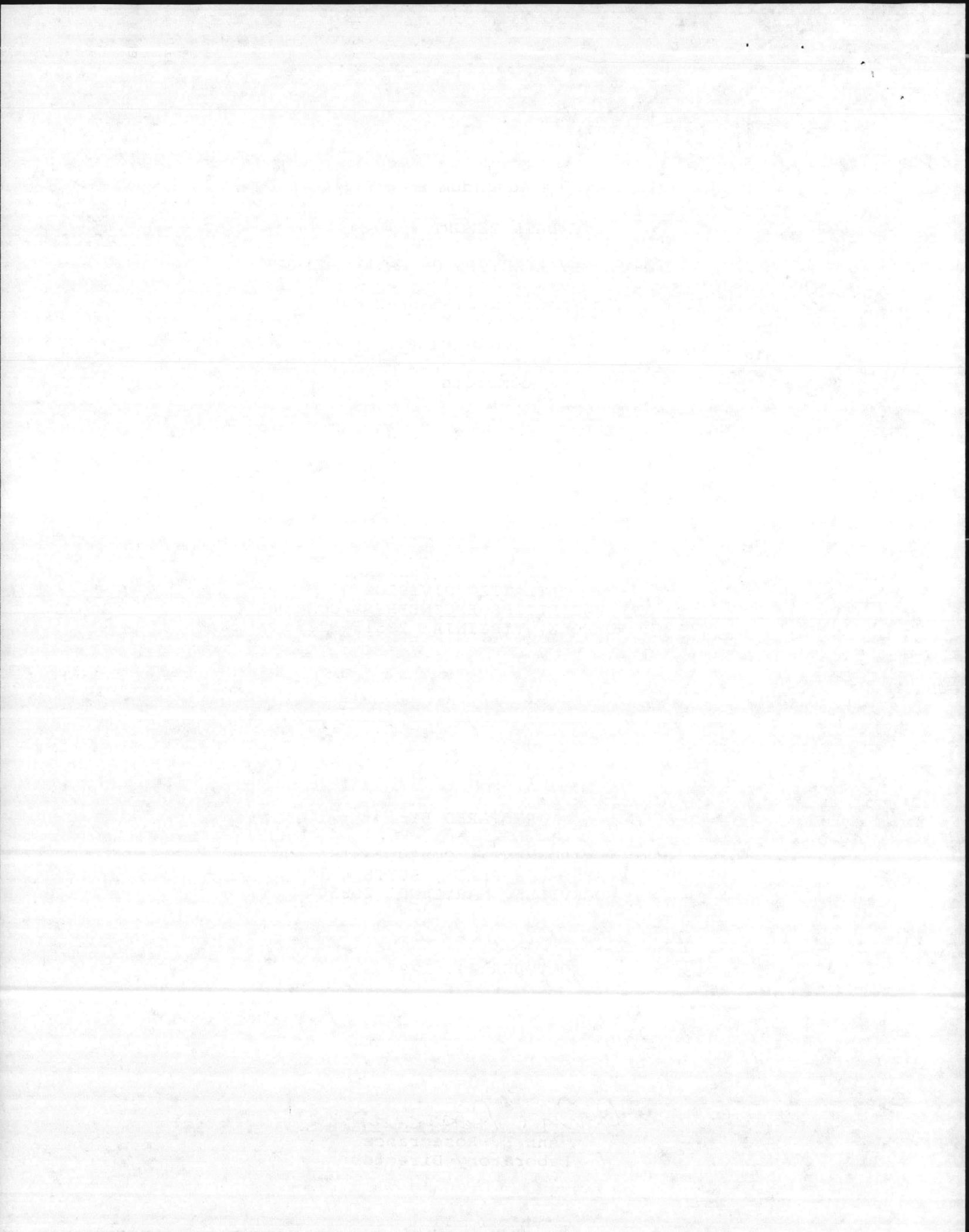
PREPARED BY:

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

OCTOBER 29, 1987

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director



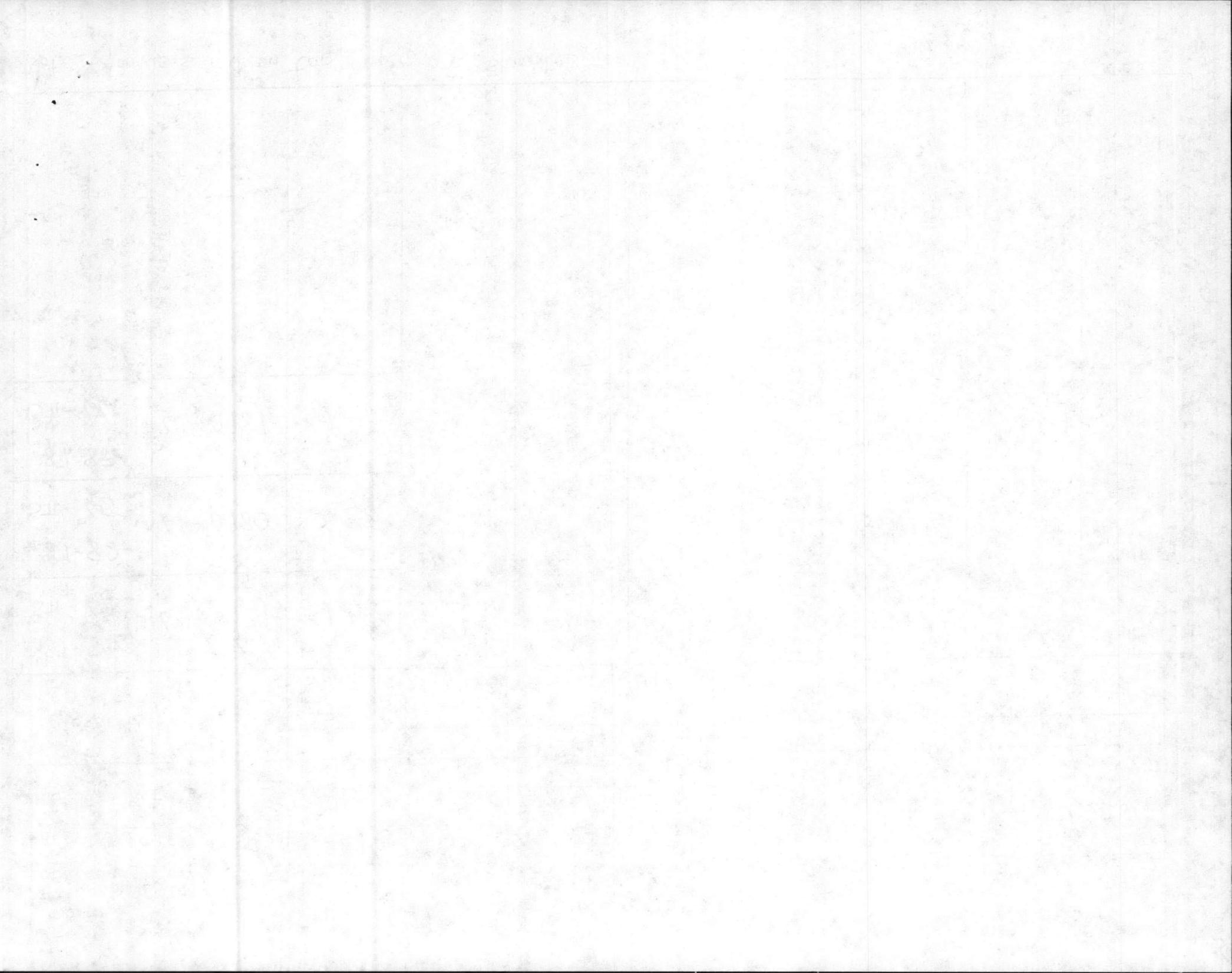
Location: Camp Lejeune Date of Receipt: 9-21-87 Turnaround: routine

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 STP-64	61-0979	<1.5							
87-82 STP-65	61-0980	2.3							
87-83 STP-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:

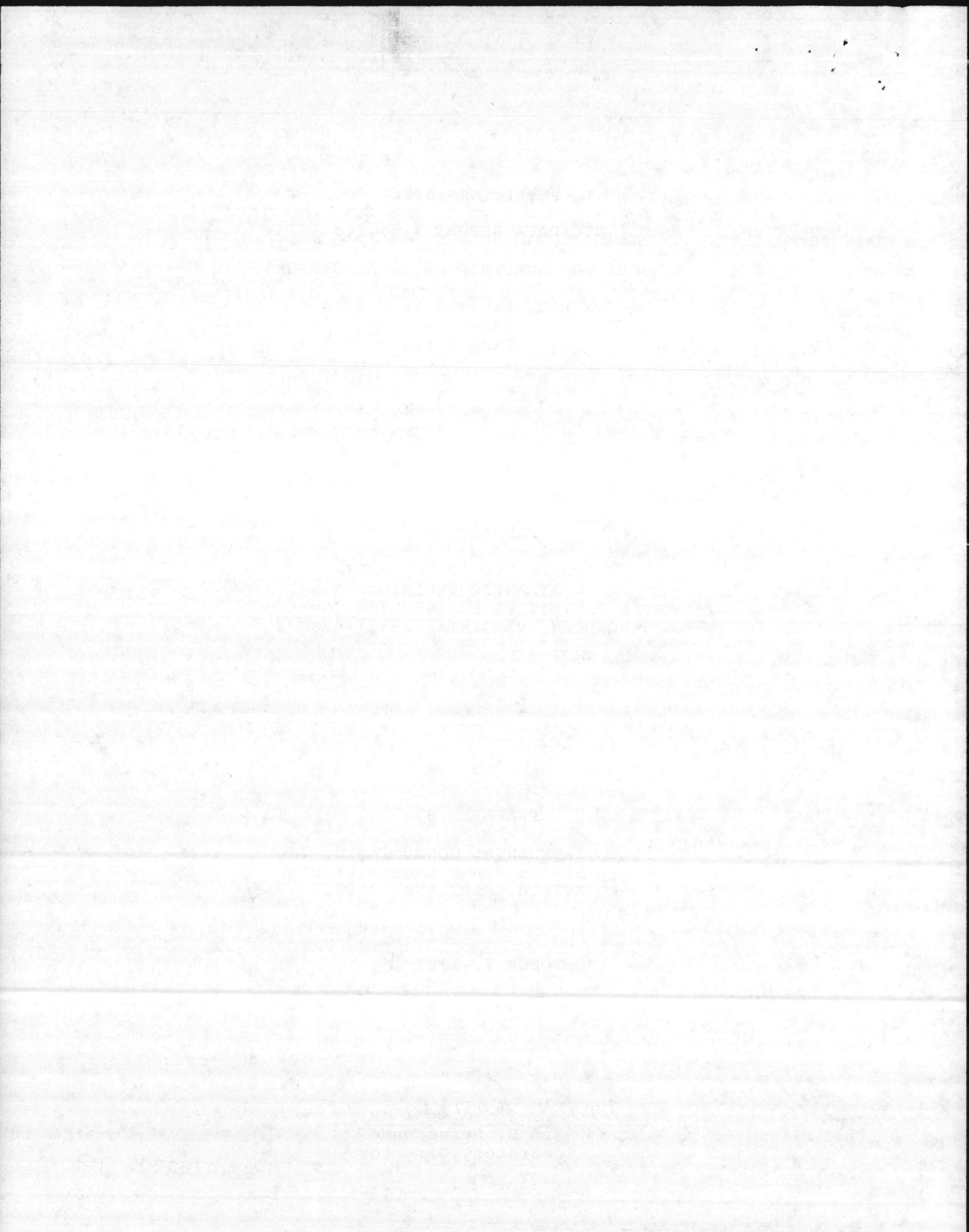
JTC ENVIRONMENTAL CONSULTANTS, INC.
4 RESEARCH PLACE, SUITE L-10
ROCKVILLE, MARYLAND 20850

OCTOBER 7, 1987

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

ENCLOSURE (5)

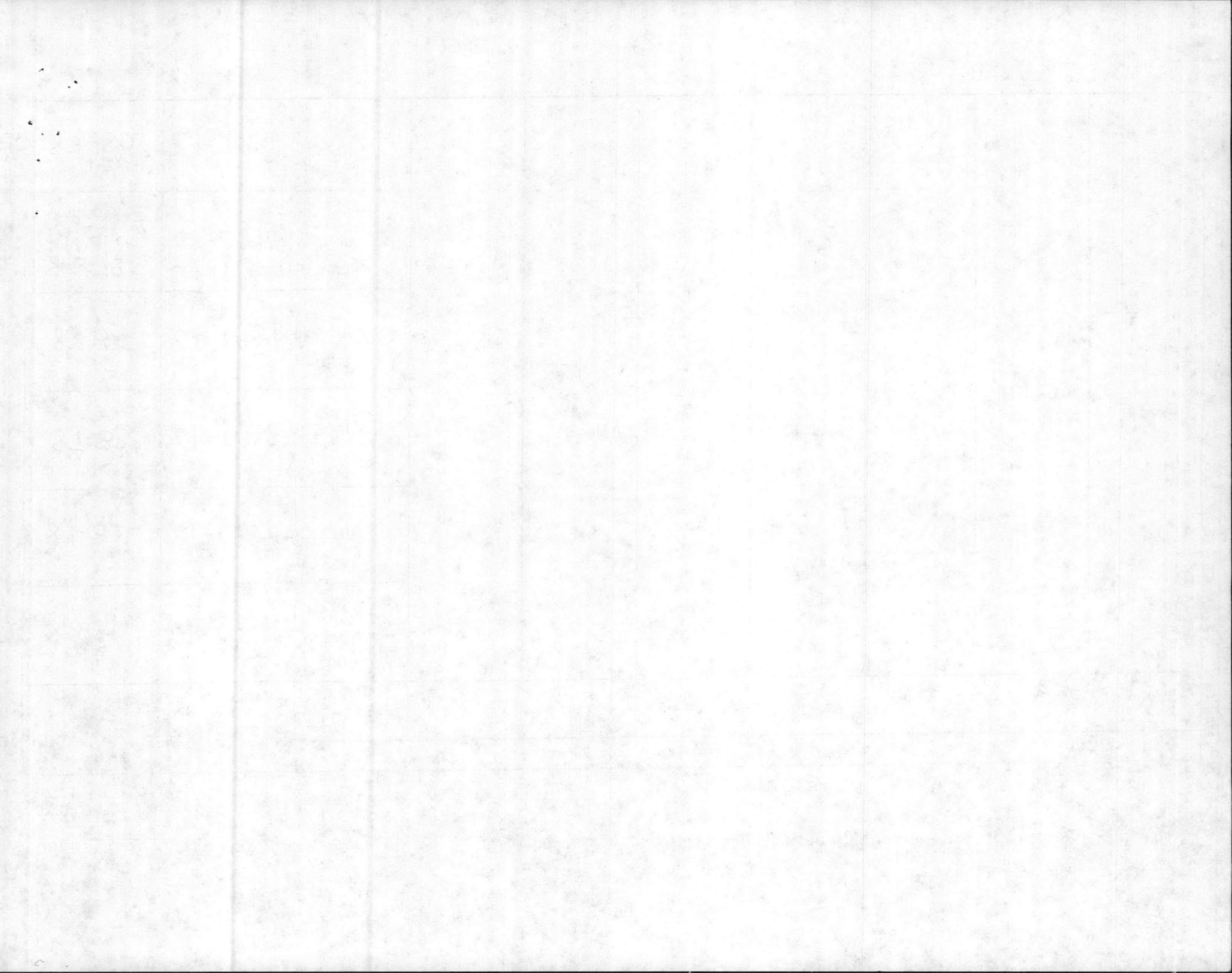


Location: Camp Lejeune Date of Receipt: 9-23-87 Turnaround: 10 days

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

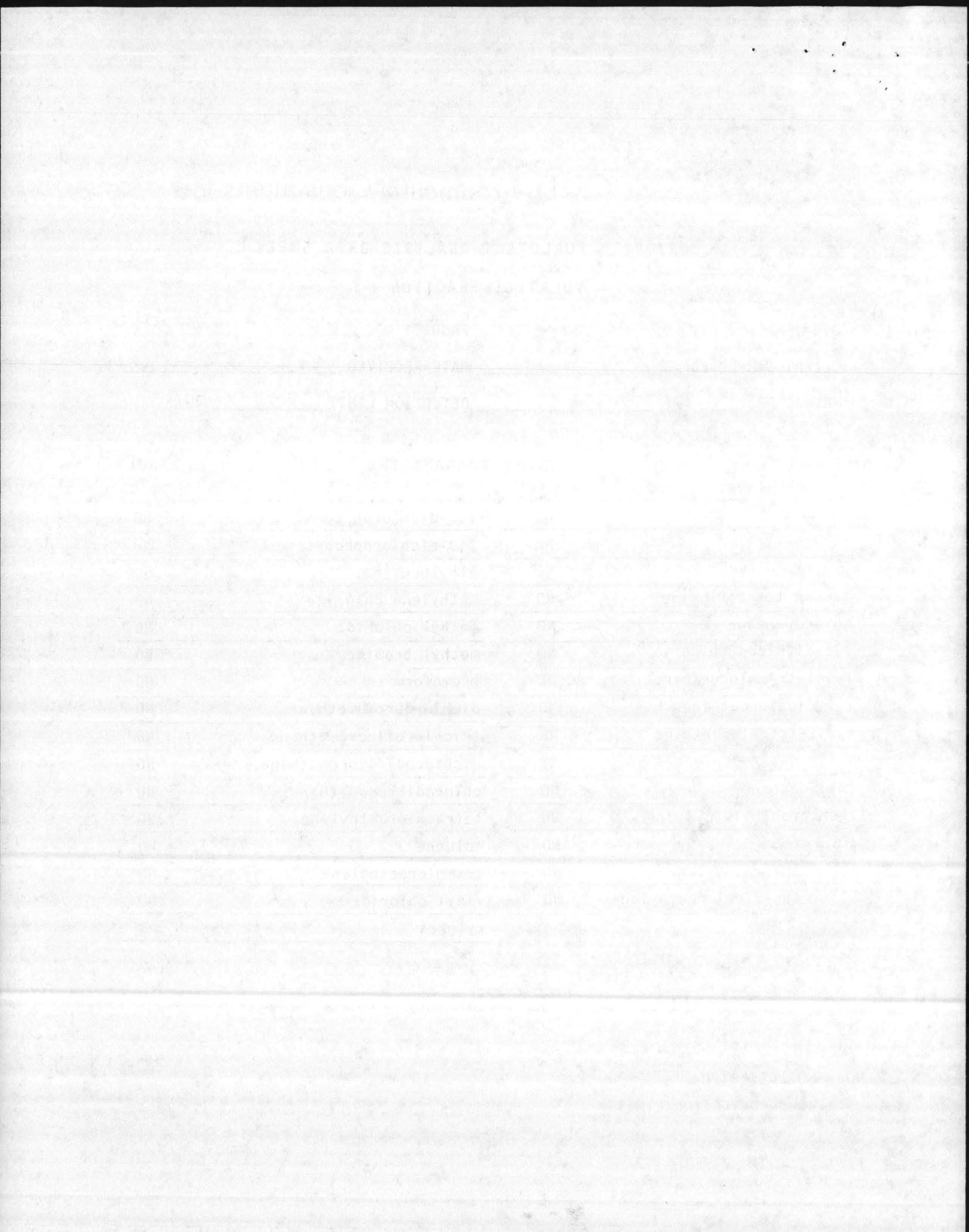
VOLATILE FRACTION

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 mg/L

PARAMETER	RESULT mg/L	PARAMETER	RESULT mg/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene	200* ND	ethylbenzene	720 ND
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	100* 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	970 ND
1,1-dichloroethylene	ND	trichloroethylene	50* ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1400	xylene	1500 ND
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 * ND	ethylbenzene	460 ND
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 ND
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	2300	xylene	2100 ND
4-METHYL-2-PENTANONE (MIBK)	500	FREON	600
2-HEXANONE	1500		

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

LABORATORY REPORT

NAME: _____

DATE: _____

EXPERIMENT: _____

THEORY: _____

PROCEDURE: _____

RESULTS: _____

DISCUSSION: _____

CONCLUSION: _____

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:

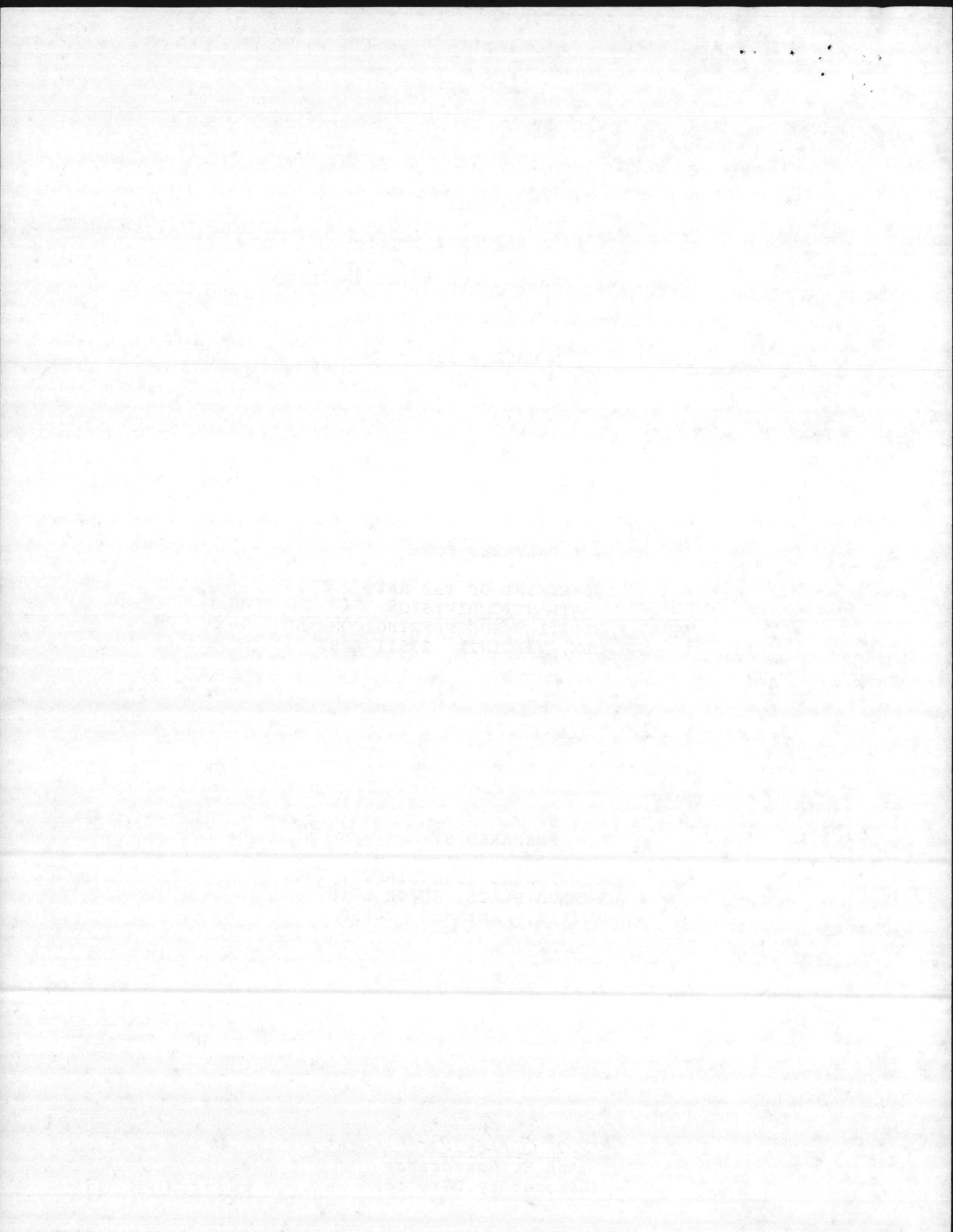
JTC ENVIRONMENTAL CONSULTANTS, INC.
4 RESEARCH PLACE, SUITE L-10
ROCKVILLE, MARYLAND 20850

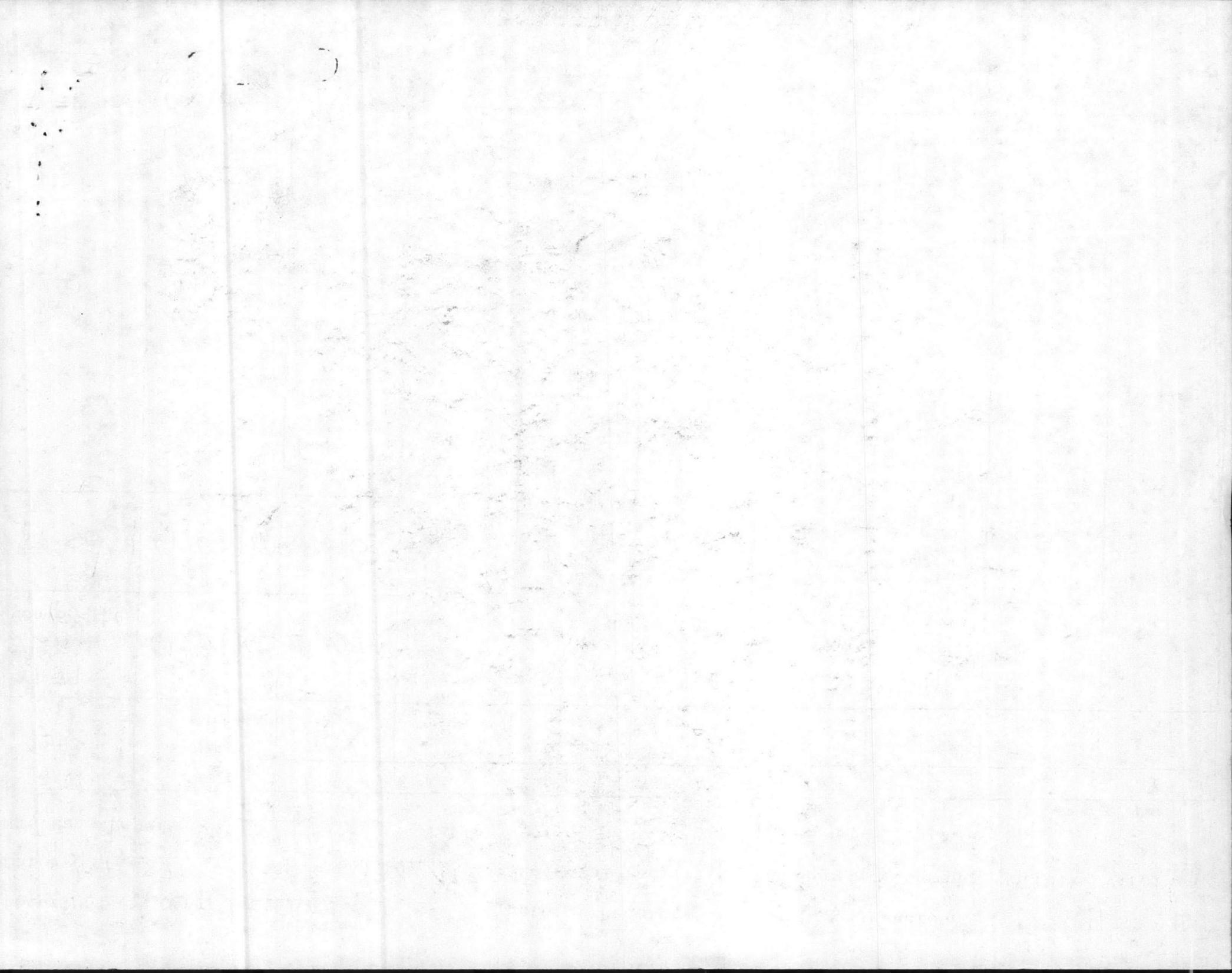
OCTOBER 12, 1987

Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

ENCLOSURE (1)





4120AA 2.95

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
DOC. IDENT.	RI FROM	M & S	STOCK NUMBER	FSC	NIIN	ADD	UNIT OF ISSUE	QUANTITY	DOCUMENT NUMBER	REQUISITIONER	DATE	SERIAL	SUPPL. SERV.	SUPPLEMENTARY ADDRESS	SIGNAL	FUND	DISTRIBUTION	PROJ. ECT	INT. ORNIT	REQ'D DEL DATE	ADVCE	RI	UNIT PRICE	DOLLARS	CTS.																																																						
B7J			915000	WASTE OIL	GL	22200M	931827307	0004											14	NA		H		40																																																							
SHIPPED FROM Natural Resources & Environmental Affairs Div, MCB, Camp Lejeune, NC										SHIP TO DRMO, MCB CLNC										MARK FOR HW		PROJECT										TOTAL PRICE DOLLARS CTS.																																															
WAREHOUSE LOCATION				TYPE OF CARGO	UNIT PACK	UNIT WEIGHT	UNIT CUBE	U F C	N M F C	FREIGHT RATE	DOCUMENT DATE	MAT. COND	QUANTITY	R	S	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z																																										
SUBSTITUTE DATA (ITEM ORIGINALLY REQUEST'D)										FREIGHT CLASSIFICATION NOMENCLATURE										CONTENTS OF TANK #AS 419																																																											
SELECTED BY AND DATE										TYPE OF CONTAINER(S)										TOTAL WEIGHT										RECEIVED BY AND DATE										INSPECTED BY AND DATE																																							
PACKED BY AND DATE										NO. OF CONTAINER(S)										TOTAL CUBE										WAREHOUSED BY AND DATE										WAREHOUSE LOCATION																																							
REMARKS:										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.										J. I. WOOTEN																																																											
FIRST DESTINATION ADDRESS										DATE SHIPPED										RECEIVER'S SIGNATURE (AND DATE)										RECEIVER'S DOCUMENT NUMBER																																																	
13 TRANSPORTATION CHARGEABLE TO										14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)										15 RECEIVER'S DOCUMENT NUMBER																																																											

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
DOC. IDENT.		RI FROM		STOCK NUMBER													QUANTITY		DOCUMENT NUMBER										SUPPLEMENTARY ADDRESS		FUND		DISTR. BUTION		PROJ. ECT		PRI. ORTY		REQ'D DEL. DATE		ADVICE		RI		UNIT PRICE																																		
B7J EJZ WEEK				915000 WASTE OIL													GL 15800M		931827307 0003																		14 NA				H		40																																				
SHIPPED FROM Natural Resources & Environ- mental Affairs Division, MCB, Camp Lejeune, NC																							SHIP TO DRMO, MCB, CLNC										MARK FOR HW		PROJECT D		TOTAL PRICE DOLLARS CTS.																																										
WAREHOUSE LOCATION				TYPE OF CARGO		UNIT PACK		UNIT WEIGHT		UNIT CUBE		U F C		N M F C		FREIGHT RATE		DOCUMENT DATE		MAT. COND		QUANTITY		TOTAL PRICE DOLLARS CTS.																																																							
F				G		H		I		J		K		L		M		N		O		P		Q		R		S																																																			
SUBSTITUTE DATA (ITEM ORIGINALLY REQUEST'D)										FREIGHT CLASSIFICATION NOMENCLATURE																																																																					
T										U										V																																																											
W										ITEM NOMENCLATURE WASTE OIL										Y		CONTENTS OF TANK #STT-65																																																									
SELECTED BY AND DATE				TYPE OF CONTAINER(S)				TOTAL WEIGHT				RECEIVED BY AND DATE				INSPECTED BY AND DATE																																																															
1				2				3				7				8 Eggle 7322																																																															
PACKED BY AND DATE				NO. OF CONTAINER(S)				TOTAL CUBE				WAREHOUSED BY AND DATE				WAREHOUSE LOCATION																																																															
4				5				6				9				10																																																															
REMARKS:										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.																																																																					
AA				BB				CC				DD				EE				FF				GG																																																							
FIRST DESTINATION ADDRESS										DATE SHIPPED																																																																					
11										12										FF		GG																																																									
13 TRANSPORTATION CHARGEABLE TO										14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)										15 RECEIVER'S DOCUMENT NUMBER J. I. WOOTEN																																																											

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	INITIALS
1/15/54
1/22/54
1/29/54
2/5/54
2/12/54
2/19/54
2/26/54
3/5/54
3/12/54
3/19/54
3/26/54
4/2/54
4/9/54
4/16/54
4/23/54
4/30/54
5/7/54
5/14/54
5/21/54
5/28/54
6/4/54
6/11/54
6/18/54
6/25/54
7/2/54
7/9/54
7/16/54
7/23/54
7/30/54
8/6/54
8/13/54
8/20/54
8/27/54
9/3/54
9/10/54
9/17/54
9/24/54
10/1/54
10/8/54
10/15/54
10/22/54
10/29/54
11/5/54
11/12/54
11/19/54
11/26/54
12/3/54
12/10/54
12/17/54
12/24/54
12/31/54

Handwritten signature

Handwritten notes at the bottom of the page

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
DOC. IDENT.		RI FROM		H & S		STOCK NUMBER		FSC		NIN		ADD		UNIT OF ISSUE		QUANTITY		DOCUMENT NUMBER		REQUISITIONER		DATE		SERIAL		SUFFIX		SUPPLEMENTARY ADDRESS		SIGNAL		FUND		DISTRIBUTION		PROJECT		PRL ORY		REQ'D DEL DATE		ADVCE		RI		UNIT PRICE																																	
B7J						915000 WASTE OIL								GL		18000M93182		7307		0002																14		NA				H		40																																			
SHIPPED FROM Natural Resources & Environmental Affairs Division, MCB, Camp Lejeune, NC														SHIP TO DRMO, MCB, CLNC														MARK FOR HW				PROJECT				TOTAL PRICE DOLLARS CTS.																																											
WAREHOUSE LOCATION				TYPE OF CARGO		UNIT PACK		UNIT WEIGHT		UNIT CUBE		U F C		N M F C		FREIGHT RATE				DOCUMENT DATE		MAT. COND.		QUANTITY		E																																																					
F				G		H		I		J		K		L		M				N		O		P		Q		R																																																			
SUBSTITUTE DATA (ITEM ORIGINALLY REQUEST'D)														FREIGHT CLASSIFICATION NOMENCLATURE														CONTENTS OF TANK #STT-64																																																			
T														U														Y																																																			
W														X														WASTE OIL																																																			
SELECTED BY AND DATE				TYPE OF CONTAINER(S)				TOTAL WEIGHT				RECEIVED BY AND DATE				INSPECTED BY AND DATE																																																															
1				2				3				7				8																																																															
PACKED BY AND DATE				NO. OF CONTAINER(S)				TOTAL CUBE				WAREHOUSED BY AND DATE				WAREHOUSE LOCATION																																																															
4				5				6				9				10																																																															
REMARKS:														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.																																																																	
AA				BB				CC				DD				EE				FF				GG																																																							
FIRST DESTINATION ADDRESS														DATE SHIPPED																																																																	
11														12														15 RECEIVER'S DOCUMENT NUMBER																																																			
13 TRANSPORTATION CHARGEABLE TO														14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)														J. I. WOOFEN																																																			

NO.	DATE	DESCRIPTION	AMOUNT	CHECK NO.	INITIALS	REMARKS
1	1954-11-27
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