WASTE OIL ANALY SIS

Memorandum

MATN

DATE:

3 Aug 87

FROM:

Director, Utilities Branch

TO:

Director, Operations Branch

SUBJ:

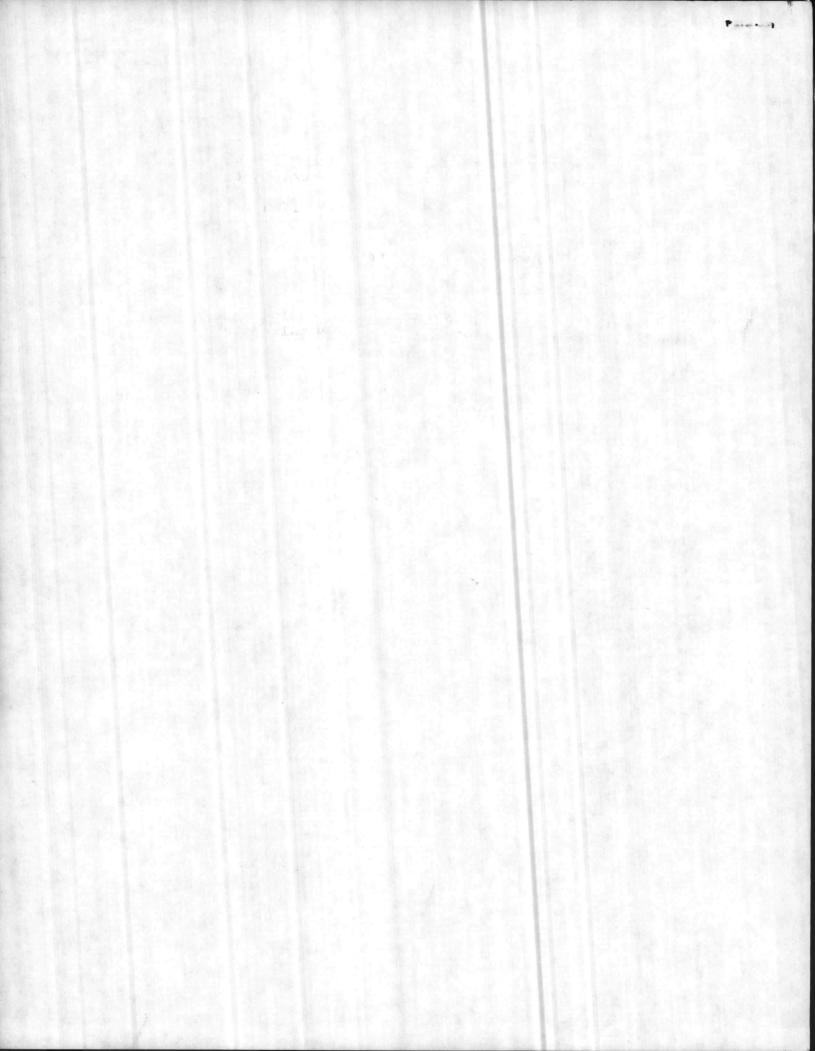
REMOVAL OF WASTE OIL AT STEAM PLANTS

Encl:

- (1) Location of Waste Oil Tanks
- (2) Analysis of Waste Oil
- (3) Ticket Nos. for Pumping Out Waste Oil

1. Enclosures (1), (2), and (3) are provided for amending the contract to remove the waste oil at the steam plants. The listed tanks have been labeled, analyzed, and tickets written for removal.

2. For additional information, point of contact is Kenneth Shepard, extension 2297.

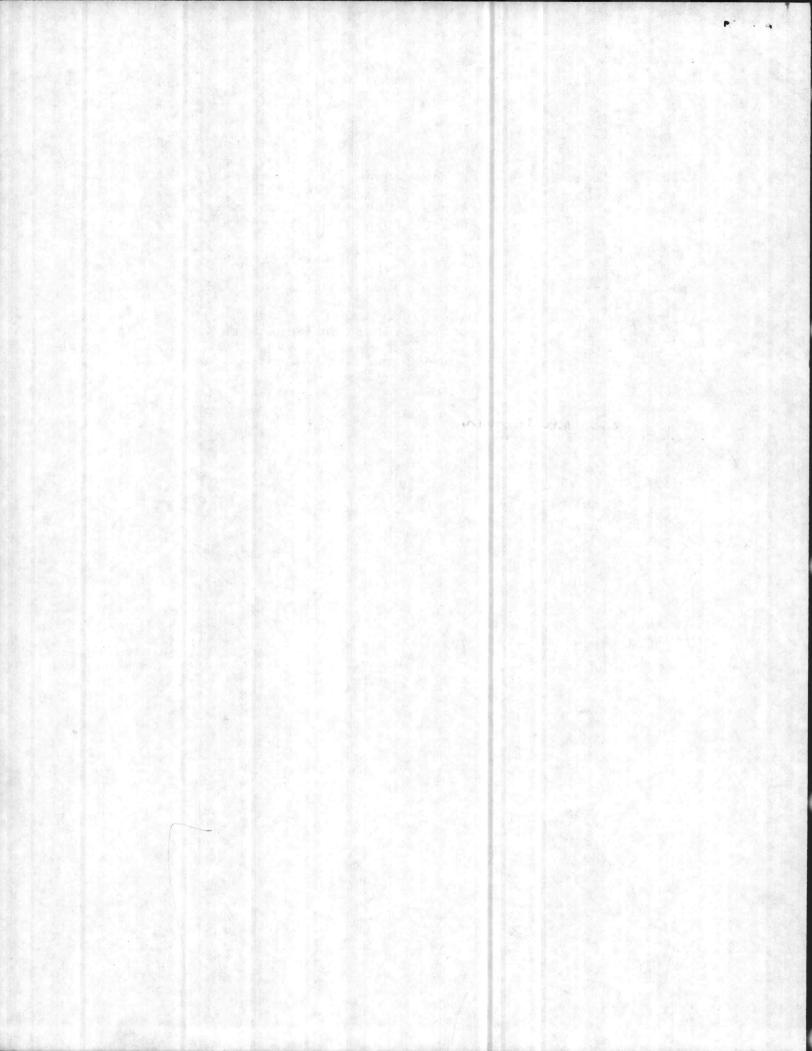


LOCATION OF WASTE OIL TANKS

PK

	1.	Bldg	1700	3 ea 1 ea	(Yellow 55 gallon drums) (Aboveground 500 gallon tank)		gals gals
*	2.	Bldg	M-625 ₩	l ea	(Below ground 500 gallon tank)	450	gals
	3.	Bldg	G-650	l ea l ea	(Aboveground 500 gallon tank) (Below ground 500 gallon tank)		gals gals
	4.	Bldg	AS-4151	1 ea	(Aboveground 500 gallon tank)	300	gals
	5.	Bldg	RR-15	lea	(Below ground 500 gallon tank)	500	gals
	6.	Bldg	BB-9	l ea l ea	(Aboveground 500 gallon tank) (Below ground 500 gallon tank)		gals gals

* Hazardons waste fuel



11 June 1987

Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune Base Maintenance Officer, Marine Corps Base, Camp Lejeune (Attn: Utilities Director)

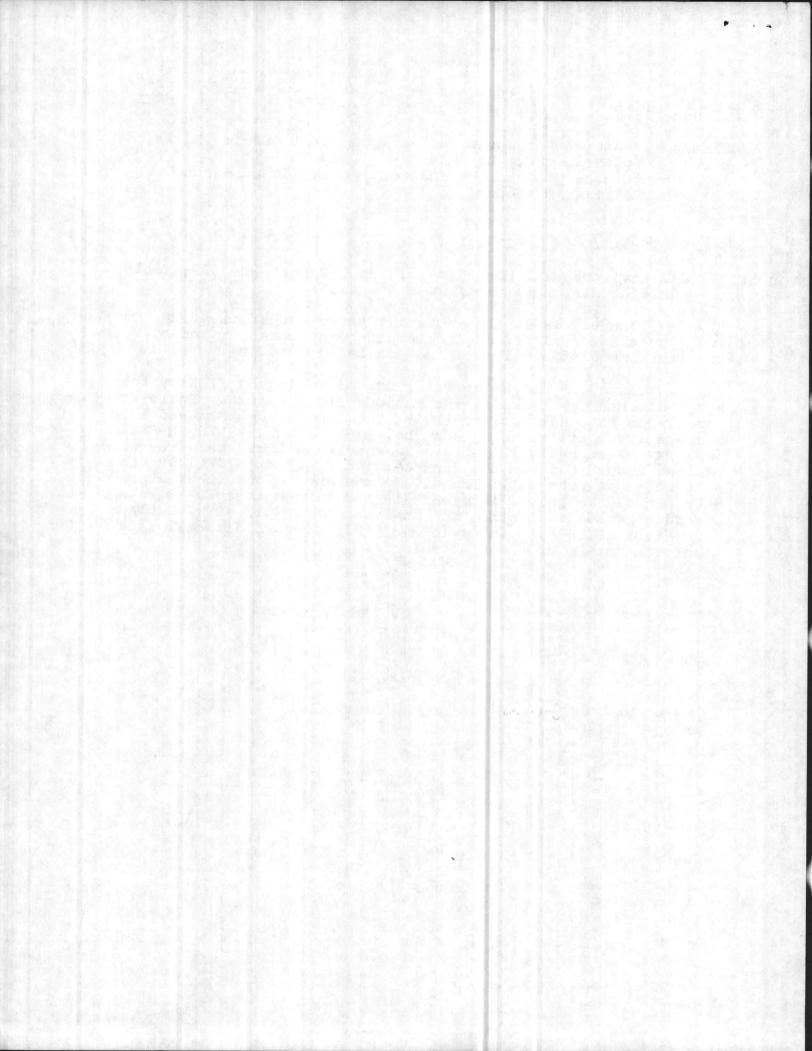
STEAM GENERATION'S WASTE OIL TANKS

- incl: (1) JTC Environmental Consultants, Inc., Report No. 539, Table 6
 (2) Table of Waste Oil Tank/Drums Locations
 - 1. On 7 January 1987, the waste oil tanks and drums at the various steam generation plants aboard Camp Lejeune were sampled by NREAD to determine if the oil could be treated as used oil.
 - 2. Enclosure (1) shows the Total Organic Halogens (TOX) values for the waste oil tanks at the various steam plants. Enclosure (2) correlates the tank locations with the sample numbers used in enclosure (1). All but sample number 87-23 (Tank at Bldg M-625), had TOX values below 1000 ppm. Therefore, all but the aboveground tank at Bldg M-625 and the drum labeled 87-20 at Bldg 1700 should be treated as used oil. The oil in the aboveground tank at Bldg M-625 should be pumped into barrels and turned in to DRMO as a hazardous waste fuel oil. The analysis of sample 187-20 (Black drum at Bldg 1700) is incomplete at this time so disposal recommendations can not be provided at this time.

JULIAN I. WOOTEN

Copy to: DRMO

+ Haz. Waste Full



Partial Results

REPORT # 539

LABORATORY ANALYSIS ON

NAVAL SAMPLES

(A/E CONTRACT N62470-84-B-6932)

JTC REPORT # 87-132

PREPARED FOR:

DEPARTMENT OF THE NAVY

ATLANTIC DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

NORFOLK, VA 23511

PREPARED BY:

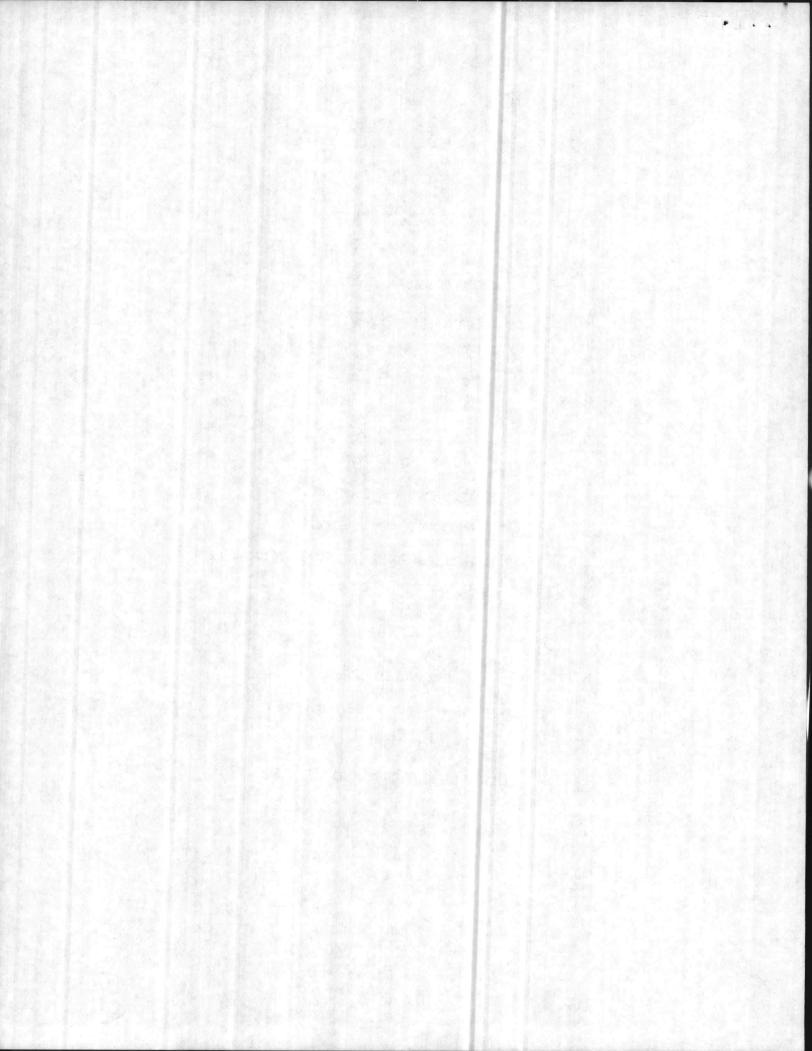
JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

APRIL 22, 1987

Ann E. Rosecrance Laboratory Director



Date: 4-22-87 Case No. 539 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-132 Table 6

NAVY	JTC	ANALYSIS PARAMETER								
SAMPLE ID	SAMPLE ID	ТОХ ррт	Flashpoint	J-						
87-19	12-4454	400	25							
87-21	12-4455	700	20							
87-22	12-4456	200	55							
87-23	12-4457	2100	25		н					
87-24	12-4458	500	25							
87-25	12-4459	400	20							
87-26	12-4460	100	40							
87-27	12-4461	100	not observed flame at 55°							
87-28	12-4462	500	not observed Flameat 80°							
87-29	12-4463	4100	25		i					

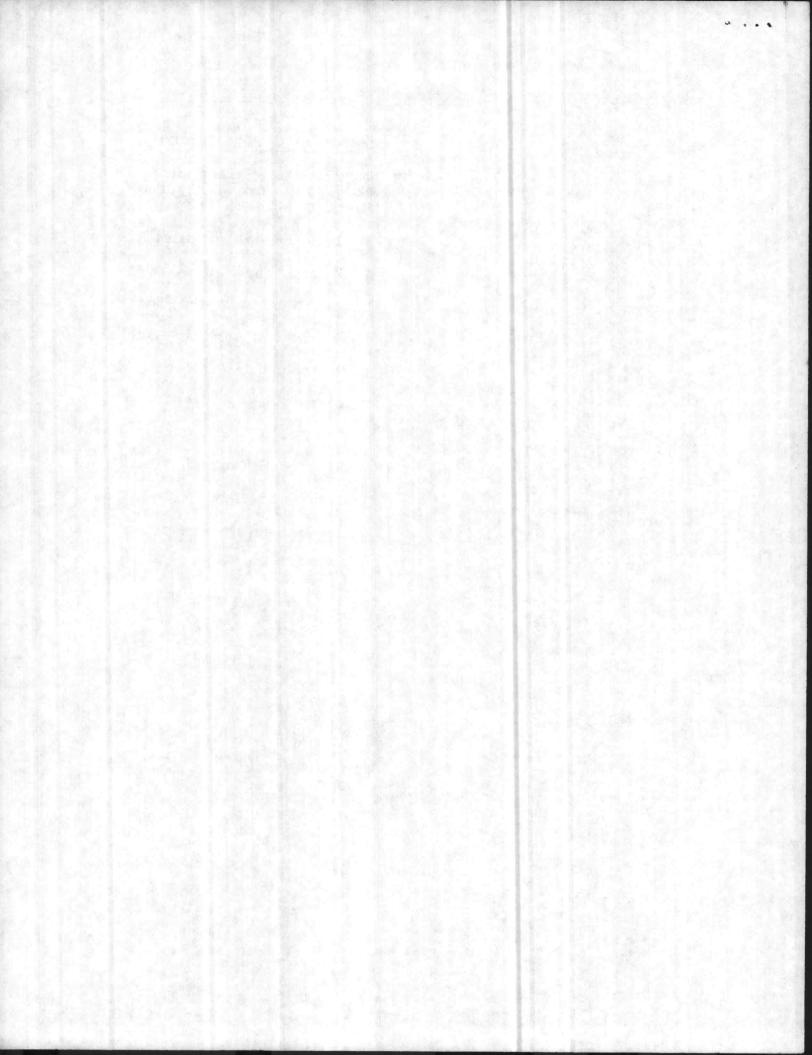
t level of confidence ± 5°C



TABLE OF WASTE OIL TANK/DRUMS @ STEAM GENERATION

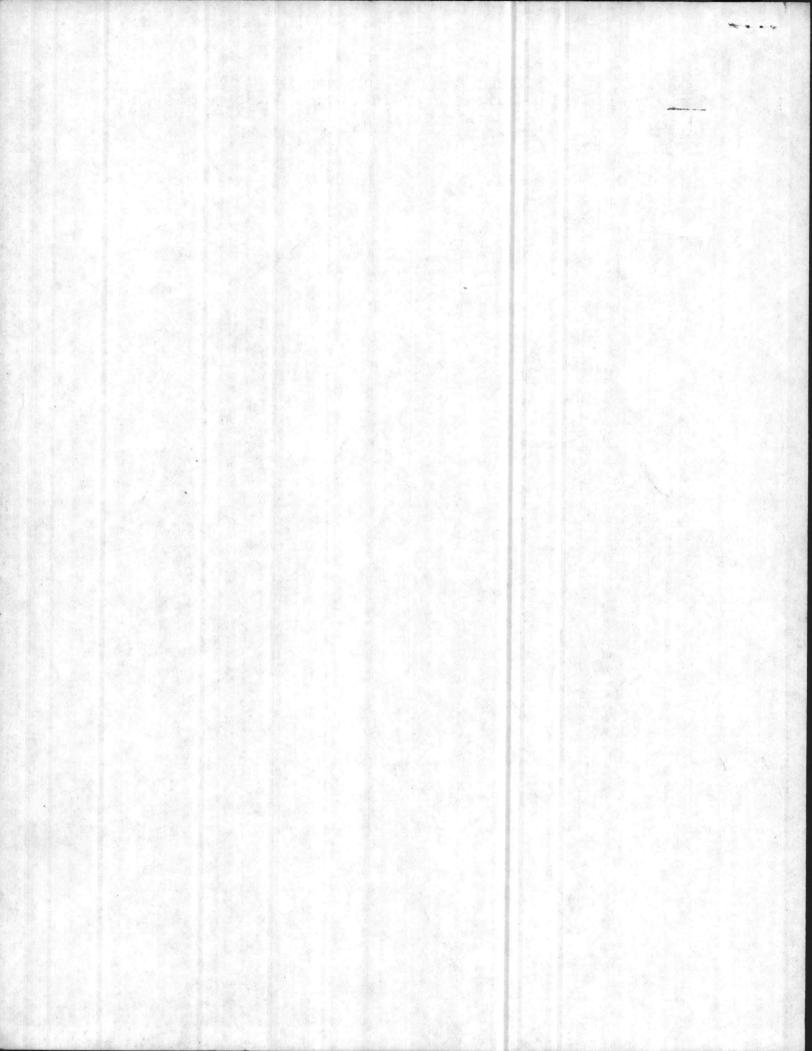
SAMPLE NUMBER	LOCATION & DESCRIPTION
87-19	3 Yellow 55-gallon drums @ Bldg 1700 (Orginally from BOQ Waste Oil Tank)
¥ 87-20	1 Black 55-gallon drum @ Bldg 1700
87-21	Tank at Bldg 1700
87-22	Underground Tank at Bldg M-625
87-23	Above-ground Tank at Bldg M-625
87-24	Underground Tank at Camp Geiger
87-25	Above-ground Tank at Camp Geiger
87-26	Above-ground Tank at Air Station
87-27	Underground Tank at RR-15
87-28	Underground Tank at Courthouse Bay
- 87-29	Above-ground Tank at Courthouse Bay

* Hazardous waste fuel



TICKET NUMBERS FOR SHOP 72 TO PUMP WASTE OIL AT STEAM PLANTS

1.	Bldg	1700	Ticket	No.	353803	
2.	Bldg	M-625	"	11.	353809	
3.	Bldg	G-650	ıı,	"	353812	
4.	Bldg	AS-4151	"	"	353817	
5.	Bldg	RR-15	11	11	353822	
6.	Bldg	BB-9	11	11	353824	





UNITED STATES MARINE CORPS

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542-5001

1N REPLY REFER TO 6240/2 NREAD 4 Jun 87

eorga

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 TANK AT BUILDING 45; ANALYSIS OF

Ref: (a) Dir M & R memo 6240 MAIN dtd 9 Jan 87

(b) BO 6240.5A

Encl: (1) JTC Environmental Consultants, Inc., Report #559

(2) JTC Environmental Consultants, Inc., Report #559 addendum Table #1

- 1. As requested in reference (a), four samples were taken by NREAD of the large waste oil storage tank located next to Building 45. The samples were numbered 87-31 through 87-34. Sample #87-31 was taken from the bottom layers of oil in the tank. Sample #87-34 was taken just below the surface of the oil in the tank. Samples #87-32 and #87-33 were taken from middle layers of oil in the tank.
- 2. Based on data contained in enclosures (1) and (2), the contents of the tank are regulated as a hazardous waste fuel by regulations outlined in reference (b). 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. Oldover is currently highly regarded by the State Hazardous Waste regulatory establishment as a mechanism for disposal of this type of waste. Based on information provided by Mr. Paul Hubbell, CMC (Code LFL), DRMO's cost of disposal will be reimbursed by higher headquarters. Cost in excess of \$250,000 is likely.
- 3. It is recommended that the subject oil be turned in to DRMO for disposal, and that DRMO be requested to remove the entire contents of the subject tank. It is likely that the bottom layer will require separate disposition due to Chromium and water content.
- 4. The tank should also be evaluated/tested for suitability for storage of waste oil prior to reuse. Point of contact is Danny Sharpe, extension 5003.

D. D. SHARPE Acting

Copy to: DRMO AC/S, FAC

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Partial Report

CASE # 559

LABORATORY ANALYSIS ON

NAVAL SAMPLES

(A/E CONTRACT N62470-84-B-6932)

9 JTC REPORT # 87-126

PREPARED FOR:

DEPARTMENT OF THE NAVY

ATLANTIC DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

NORFOLK, VA 23511

PREPARED BY:

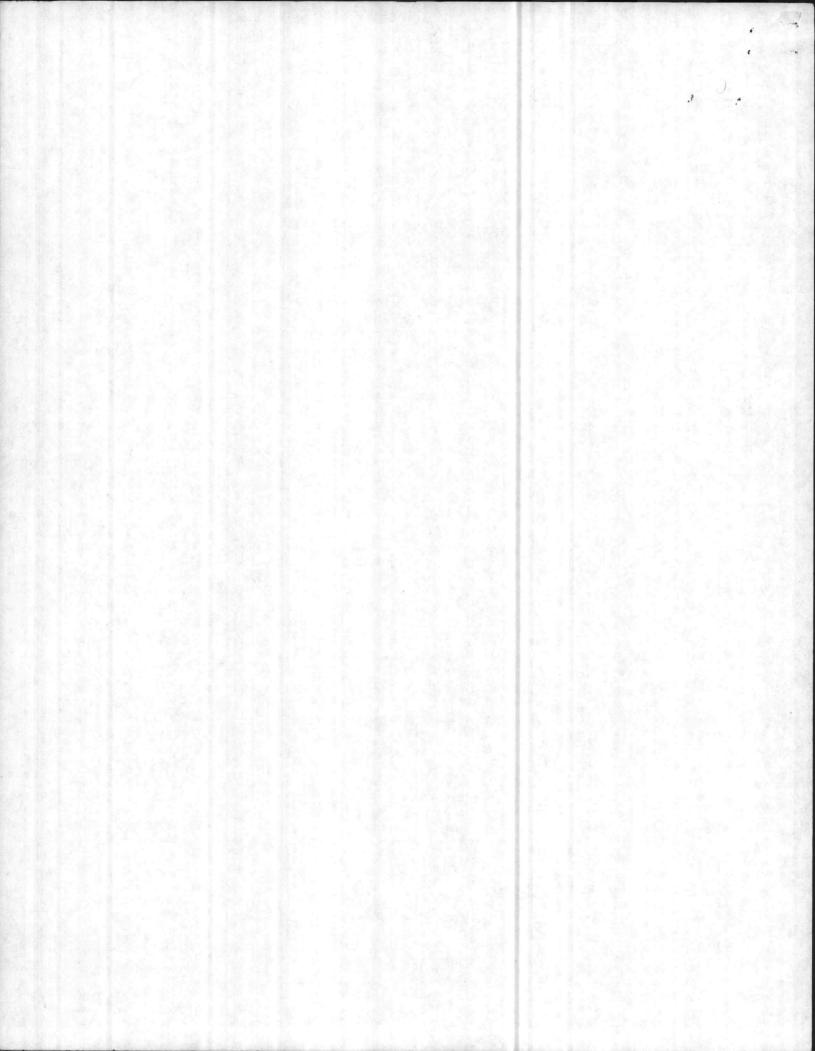
JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

APRIL 17, 1987

Ann E. Rosecrance Laboratory Director



Date: 4-17-87 Report No. 559

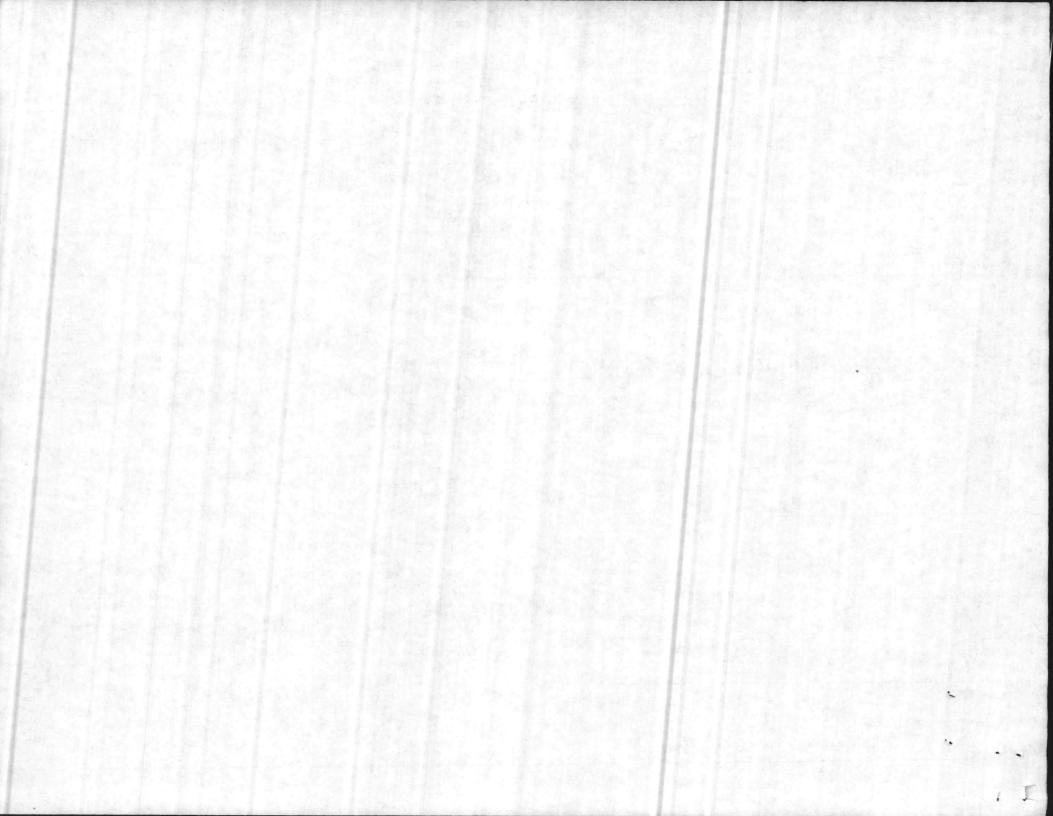
Date of Receipt: 3-18-87 Turnaround: routine

to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-126 Table /

NAVY	JTC	ANALYSIS PARAMETER							
SAMPLE ID	SAMPLE ID	Flashpoint	TOX	Corrosivity pH	PCB ug/q				
87-30 oil layer	12-4514	55	0.07%	**	<5				
87-30 water layer	12-4514	+	572 ug/	7.32	+	•			
87-31	12-4515	57	0.25%						
87-32	12-4516	50	0.25%						
87-33	12-4517	50	0.24%						
87-34	12-4518	57	0.17%						

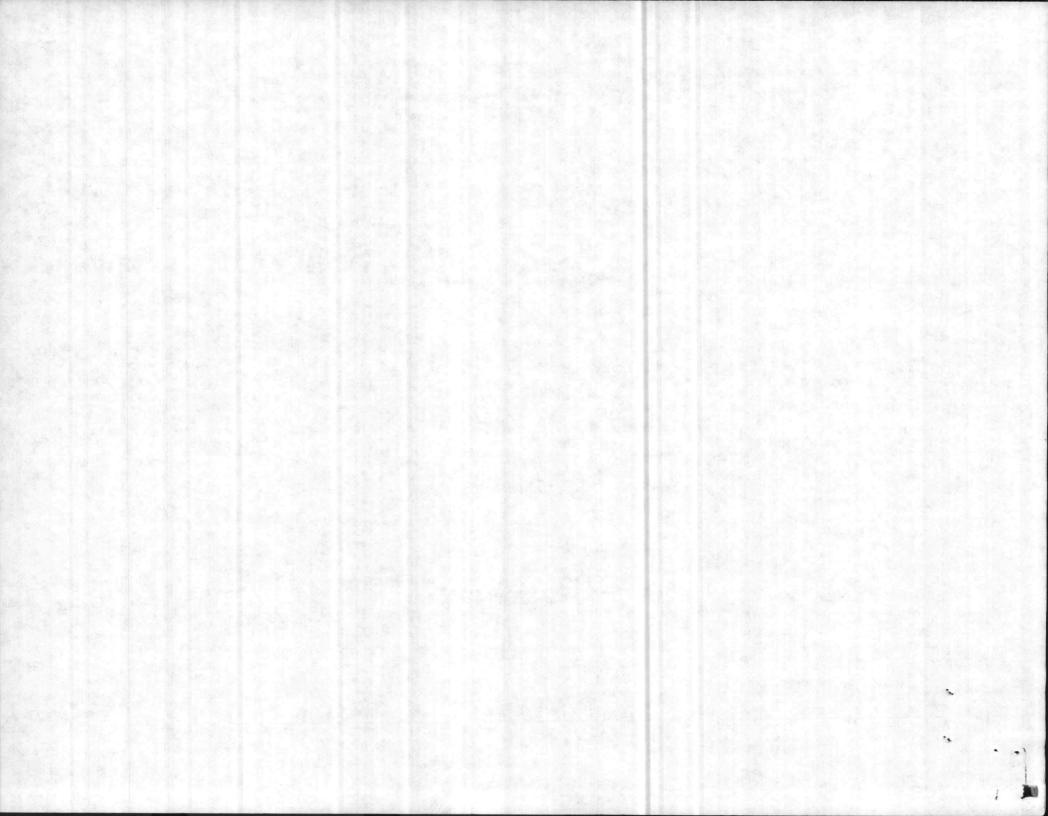
** unable to do analysis due to oil matrix



Date: 4-17-87 Report No. 559 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-126 Table 2

NAVY	JTC	ANALYSIS PARAMETER							
SAMPLE ID	SAMPLE	Water 70	Sediment 70	Sp. Gravity g/ml	Viscosity e70°F, c5E.	BTU per 16.			
87-31	12-4515	11.0	0.38	0.81	28.6	17,000			
87-32	12-4516	10.7	0.40	0.81	27.9	17,100			
87-33	12-4517	10.5	0.37	0.83	26.0	17,100			
87-34	12-4518	6,40	0.20.	0.76	21.0	18,000			



REPORT # 559 Addendum

LABORATORY ANALYSIS ON

NAVAL SAMPLES

(A/E CONTRACT N62470-84-B-6932)

JTC REPORT #87-126

PREPARED FOR:

DEPARTMENT OF THE NAVY

ATLANTIC DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

NORFOLK, VA 23511

PREPARED BY:

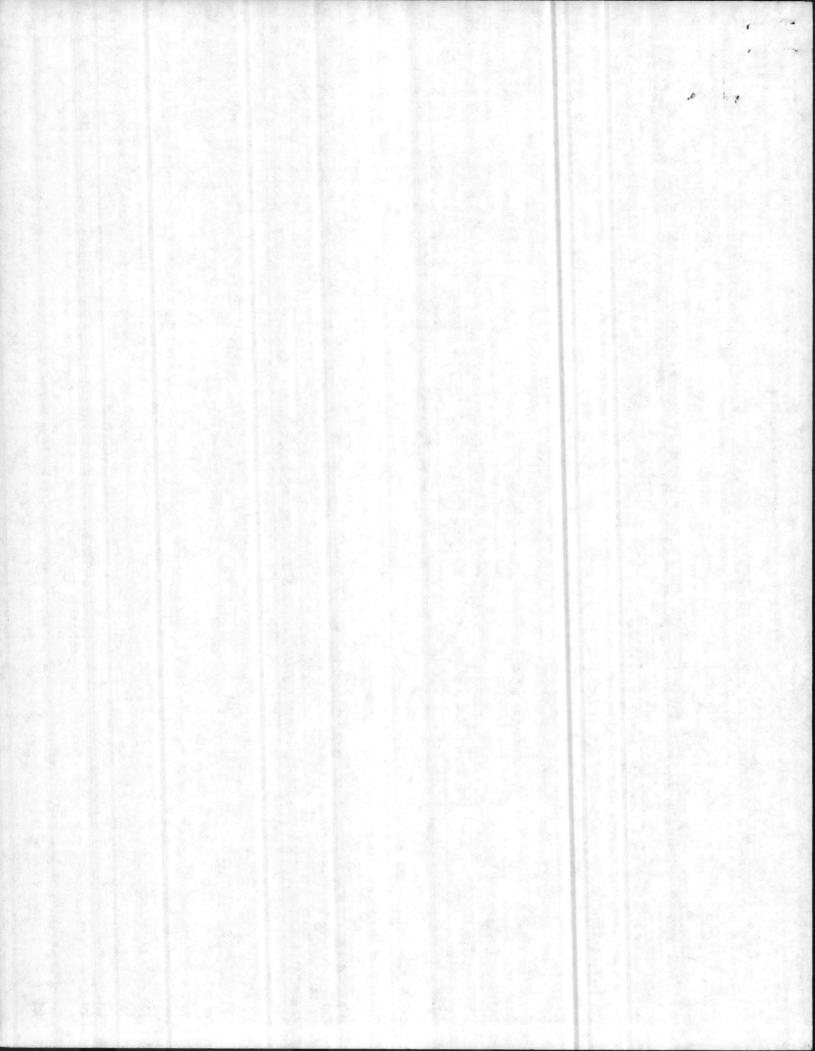
JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

APRIL 29, 1987

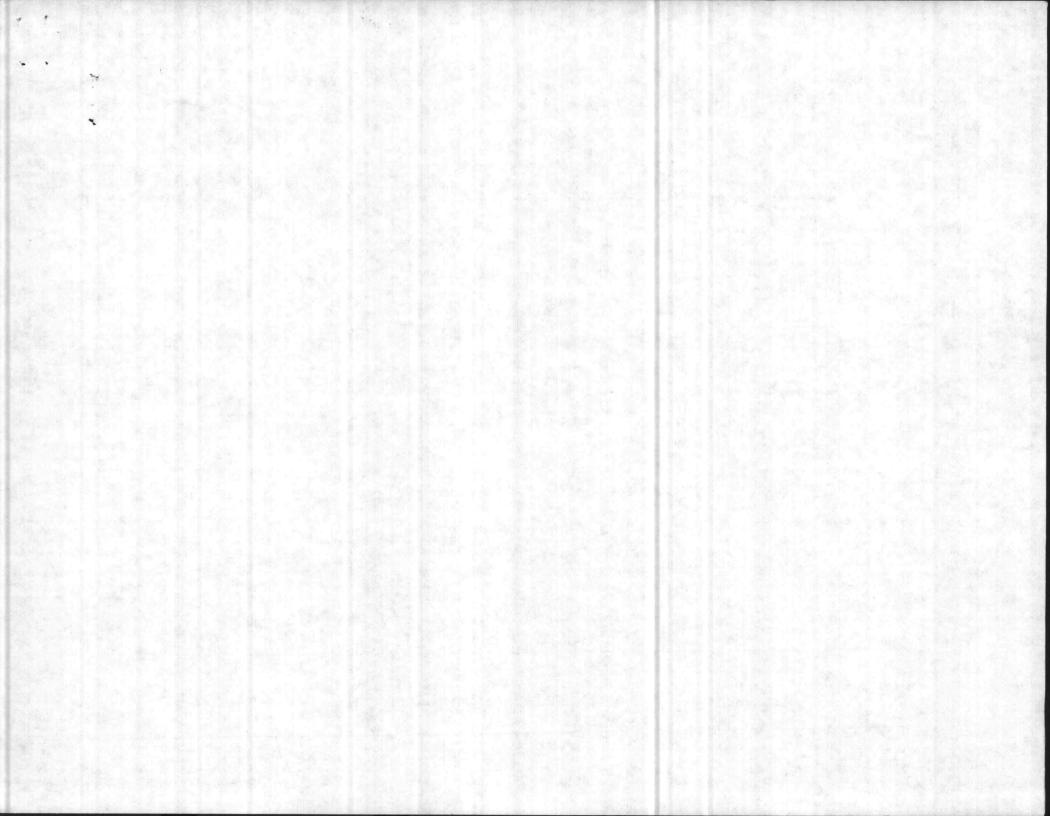
Reguma B Smith for Ann E. Rosecrance Laboratory Director



Date: 4-29-87 Report No. 559 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-126 Table /

NAMY	JTC				ANALYSIS	PARAMETER	7 7 90 7		
SAMPLE 1Dags	SAMPLE ID	As ug/L	Ba ug/L	CL	Cr ug/L	Pb ug/L	Hg	Se	Ag
87-30 oil layer	12-4514	<2700	3530	<1500	710	19,500	mg. Tkg	4860	197L <8920
87-30 unter layer	12-4514	<500	180	425	150	<250	<2,0 ug	<570	<50
87-31	12-4515	<2700		<1500	21,000	63,800		-	-
87-32	12-4516	<2700	_	<1500	1850	62,100	_	-	-
87-33	12-4517	<2700	-	<1500	1690	60,200	_	_	
87-34	12-4518	<2700	-	<1500	1350	67,500			



Location: Camp Lejeune	_ Date of Receipt: 3-18-87 Turnaround: routine	
Date: 4-29-87 Report No. 559 Add	to Naval Facilities Engineering Command, Norfolk, Vir	raini:
JTC Data Report No. 87-126 Table	2	ginie

MAVY	JTC		ANALYSIS PARAMETER								
SAMPLE ID	ID SAMPLE	Reac- Cyanide	Sulfide								
87-30 cil layer	12-4514	<0.5 mg/kg	NA								
87-30 water layer	12-4514	210 mg/L	85049/								

NA= not available, result will be reported in separate addendum