6241/2
NREAD
30 Oct 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 TANKS AT STT-64 AND STT-65

Ref: (a) BMAIN Memo 6280 Main of 26 Oct 87
(b) PHONECON btwn Ms. N. Hipp of DRMO and Ms. E. Betz of NREAD on 27 Oct 87
(c) Dir, NREAD ltr 6241/2 NREAD of 19 Oct 87

1. The action requested in reference (a) is no longer needed per reference (b). During reference (b), when advised that the analysis provided in reference (c) on the subject tanks classified them as Hazardous Waste Fuel, Ms. Hipp stated no further analysis would be necessary. BMO should submit a Form 1348-1 to DRMO as soon as possible.

2. The analysis provided in reference (c) showed the contents of STT-66 to be off-specification used oil at the time of sampling. STT-66 will require further testing when it is full to determine if the contents are still an off-specification used oil or if it has become hazardous waste fuel. Addressee is requested to advise immediately when STT-66 is filled.

J. I. WOOTEN

Copy to:
DRMO
AC/S, FAC

Blind copy:
Lab

6241/2
NREAD
16 Nov 87

From: Commanding Gene[illegible]e, Camp Lejeune
To: Defense Reutili[illegible] Officer, Defense
Logistics Agenc[illegible]une, NC 28542-5001

Subj: WASTE OIL STORAG[illegible]-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)

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)

ENCLOSURE (1)

DOC. IDENT.	RI FROM	M&S	STOCK NUMBER: FSC	STOCK NUMBER: NIIN	STOCK NUMBER: ADD	UNIT OF ISSUE	QUANTITY	DOCUMENT NUMBER: SERV	DOCUMENT NUMBER: REQUISITIONER	DOCUMENT NUMBER: DATE	DOCUMENT NUMBER: SERIAL	SUFFIX	SUPPLEMENTARY ADDRESS: SERV	SUPPLEMENTARY ADDRESS	SIGNAL	FUND	DISTRIBUTION	PROJECT	PRIORITY	REQ'D DEL DATE	ADVICE	RI		UNIT PRICE: DOLLARS	UNIT PRICE: CTS.
B7J			9150	00 WASTE OIL	GL		18000	M	93182	7307	0002								14	NA		H		40	

SHIPPED FROM (A)	SHIP TO (B)	MARK FOR (C)	PROJECT (D)	TOTAL PRICE: DOLLARS	TOTAL PRICE: CTS. (E)
Natural Resources & Environmental Affairs Division, MCB, Camp Lejeune, NC	DRMO, MCB, CLNC	HW			

WAREHOUSE LOCATION (F)	TYPE OF CARGO (G)	UNIT PACK (H)	UNIT WEIGHT (I)	UNIT CUBE (J)	U F C (K)	N M F C (L)	FREIGHT RATE (M)	(N)	DOCUMENT DATE (O)	MAT. COND (P)	QUANTITY (Q)	(R)	(S)

SUBSTITUTE DATA (ITEM ORIGINALLY REQUEST'D) (T)	FREIGHT CLASSIFICATION NOMENCLATURE (U)	(V)
		CONTENTS OF TANK #STT-64
(W)	ITEM NOMENCLATURE (X)	(Y)
	WASTE OIL	

SHIPPERS USE	SELECTED BY AND DATE (1)	TYPE OF CONTAINER(S) (2)	TOTAL WEIGHT (3)	RECEIVERS USE	RECEIVED BY AND DATE (7)	INSPECTED BY AND DATE (8)
	PACKED BY AND DATE (4)	NO. OF CONTAINER(S) (5)	TOTAL CUBE (6)		WAREHOUSED BY AND DATE (9)	WAREHOUSE LOCATION (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 (11)	DATE SHIPPED (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

DD FORM 1348-1 1 MAR 74 EDITION OF 1 JAN 64 MAY BE USED UNTIL EXHAUSTED

S/N 0102-LF-013-1040

DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

1

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

ENCLOSURE (2)

DOC. IDENT.	RI FROM	M&S	STOCK NUMBER FSC	STOCK NUMBER NIIN	ADD	UNIT OF ISSUE	QUANTITY	DOCUMENT NUMBER SERV	REQUISITIONER	DATE	SERIAL	SUFFIX	SUPPLEMENTARY ADDRESS SERV	SIGNAL	FUND	DISTRIBUTION	PROJECT	PRIORITY	REQ'D DEL DATE	ADVICE	RI	UNIT PRICE DOLLARS	UNIT PRICE CTS.
B7J																							
XXXX			9150	00 WASTE OIL		GL	15800M		931827307		0003						14	NA			H		40

SHIPPED FROM	SHIP TO	MARK FOR	PROJECT	TOTAL PRICE DOLLARS	TOTAL PRICE CTS.
Natural Resources & Environmental Affairs Division, MCB, Camp Lejeune, NC	DRMO, MCB, CLNC	HW			
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 REQUEST'D)	FREIGHT CLASSIFICATION NOMENCLATURE	
T	U	V
W	ITEM NOMENCLATURE: X WASTE OIL	Y CONTENTS OF TANK #STT-65

SHIPPERS USE				RECEIVERS USE		
SELECTED BY AND DATE 1	TYPE OF CONTAINER(S) 2	TOTAL WEIGHT 3		RECEIVED BY AND DATE 7	INSPECTED BY AND DATE 8	
PACKED BY AND DATE 4	NO. OF CONTAINER(S) 5	TOTAL CUBE 6		WAREHOUSED BY AND DATE 9	WAREHOUSE LOCATION 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 11	DATE SHIPPED 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

DD FORM 1348-1 1 MAR 74 EDITION OF 1 JAN 64 MAY BE USED UNTIL EXHAUSTED

S/N 0102-LF-013-1040

DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

1

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

ENCLOSURE (3)

DOC. IDENT.	RI FROM	M&S	STOCK NUMBER FSC	STOCK NUMBER NIIN	ADD	UNIT OF ISSUE	QUANTITY	DOCUMENT NUMBER SERV	DOCUMENT NUMBER REQUISITIONER	DOCUMENT NUMBER DATE	DOCUMENT NUMBER SERIAL	SUFFIX	SUPPLEMENTARY ADDRESS SERV	SUPPLEMENTARY ADDRESS	SIGNAL	FUND	DISTRIBUTION	PROJECT	PRIORITY	REQ'D DEL DATE	ADVICE	RI	UNIT PRICE DOLLARS	UNIT PRICE CTS.
B7J			915000	WASTE OIL		GL	22200	M	931827307		0004								14	NA		H		40

SHIPPED FROM	SHIP TO	MARK FOR	PROJECT	TOTAL PRICE DOLLARS	TOTAL PRICE CTS.
Natural Resources & Environmental Affairs Div, MCB, Camp Lejeune, NC	DRMO, MCB CLNC	HW			
A	B	C	D	E	

WAREHOUSE LOCATION	TYPE OF CARGO	UNIT PACK	UNIT WEIGHT	UNIT CUBE	UFC	NMFC	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 WASTE OIL	V
W	ITEM NOMENCLATURE X WASTE OIL	Y CONTENTS OF TANK #AS 419

SHIPPER'S USE	SELECTED BY AND DATE	TYPE OF CONTAINER(S)	TOTAL WEIGHT	RECEIVER'S USE	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	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		
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

DD FORM 1348-1 1 MAR 74 EDITION OF 1 JAN 64 MAY BE USED UNTIL EXHAUSTED

S/N 0102-LF-013-1040

DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

1

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

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)

Location: Camp Lejeune Date of Receipt: 9-21-87 Turnaround: 15 days

Date: 10-12-87 Case No. 136 Add 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							
		TOX %	BTU per lb.	BS+W %	% water	Viscosity @ 210° F SUS			
87-81 ST-64	61-0979	0.23	17,000	22.0	10.3	41.4			
87-82 ST-65	61-0980	0.20	19,100	0.6	0.05	37.2			
87-83 ST-66	61-0981	<0.05	19,100	1.7	1.4	35.5			

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)

Location: Camp Lejeune Date of Receipt: 9-21-87 Turnaround: 10 days

Date: 10 5 87 Case No. 136 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							
		PCB ug/g	Phenanthrene &						
87-81 ST-64	61-0979	<5	28						
87-82 ST-65	61-0980	<5	35						
87-83 ST-66	61-0981	<5	30						

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 ST-64	61-0979	<20	<2.0	NA	58	0.697			
87-82 ST-65	61-0980	<20	<2.0	NA	54	0.605			
87-83 ST-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 ST-64	61-0979	<1.5							
87-82 ST-65	61-0980	2.3							
87-83 ST-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	xylenes 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
		xylenes 2100 ~~ND~~	
ACETONE	2300	FREON	600
4-METHYL-2-PENTANONE (MIBK)	500		
2-HEXANONE	1500		

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

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)

Location: Camp Lejeune Date of Receipt: 9-23-87 Turnaround: 15 days

Date: 10-12-87 Case No. 138 Add 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							
		TOX %							
87-79 composite layer	61-0990	0.09							
87-80	61-0991	0.15							

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

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 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[a] g/ml	Sp. Gravity[b] g/ml
888 87-49	61-0305	19.5	19.5	93.6	15,550	<0.05	N.O. boiled at 70°	0.73	0.92
889 87-50	61-0306	13.5	20.0	100.8	16,500	0.20	N.O. boiled at 50°	0.77 *	—
890 87-51	61-0307	17.6	24.0	103.8	15,500	<0.05	N.O. boiled at 45°	0.72	0.96
891 87-52	61-0308	0.76	0.80	53.0	19,300	0.12	35	0.73	0.88
420 87-53	61-0309	8.4	13.5	100.8	17,500	0.16	40	0.73	0.93
421 87-54	61-0310	8.1	13.0	56.1	17,500	0.25	35	0.75	0.88
SΠ-61 87-55	61-0311	18.4	23.0	97.0	15,000	0.13	N.O. boiled at 45°	0.76	0.98
SΠ-62 87-56	61-0312	12.0	17.5	104.6	16,650	0.22	40	0.73	0.89
SΠ-63 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 # 87-49 → 87-57 Composite DATE RECEIVED 6/5/87

METHOD NO. 624 DETECTION LIMIT 500 ug/L

PARAMETER	RESULT ug/L	PARAMETER	RESULT ug/L
acrolein	ND	1,2-dichloropropane	ND
acrylonitrile	ND	1,3-dichloropropylene	ND
benzene	540 ~~ND~~	ethylbenzene	110* ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	230* ~~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	990 ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	620 ~~ND~~

Acetone 70,000

MEK (2-Butanone) 13,000

MIBK (4-methyl-2-pentanone) 1200

1,1,2-Trichlorotrifluoroethane (freon) present, concentration not availab

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				

OPNAV 5211-44A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

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.)

U.S. GOVERNMENT PRINTING OFFICE 1985 — 505-012/18049

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

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 many 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

DOC. IDENT.	RI FROM	M & S	STOCK NUMBER: FSC	STOCK NUMBER: NIIN	STOCK NUMBER: ADD	UNIT OF ISSUE	QUANTITY	DOCUMENT NUMBER: SERV	DOCUMENT NUMBER: REQUISITIONER	DOCUMENT NUMBER: DATE	DOCUMENT NUMBER: SERIAL	SUFFIX	SUPPLEMENTARY ADDRESS: SERV	SUPPLEMENTARY ADDRESS	SIGNAL	FUND	DISTRIBUTION	PROJECT	PRIORITY	REQ'D DEL DATE	ADVICE	RI	UNIT PRICE: DOLLARS	UNIT PRICE: CTS.
B7J			9150	WASTE OIL		GL	12500	M	93182	7307	0002								14	NA				40

SHIPPED FROM (A)	SHIP TO (B)	MARK FOR (C)	PROJECT (D)	TOTAL PRICE: DOLLARS (E)	TOTAL PRICE: CTS
NATURAL RESOURCES MCB, CLNC	DRMO, MCB CLNC	HW			

WAREHOUSE LOCATION (F)	TYPE OF CARGO (G)	UNIT PACK (H)	UNIT WEIGHT (I)	UNIT CUBE (J)	U F C (K)	N M F C (L)	FREIGHT RATE (M)	(N)	DOCUMENT DATE (O)	MAT. COND (P)	QUANTITY (Q)	(R)	(S)

SUBSTITUTE DATA (ITEM ORIGINALLY REQUESTED) (T)	FREIGHT CLASSIFICATION NOMENCLATURE (U)	(Y)
		CONTENTS OF TANK # STT 64

(W)	ITEM NOMENCLATURE (X)	(Y)
	WASTE OIL	

SHIPPERS USE	SELECTED BY AND DATE (1)	TYPE OF CONTAINER(S) (2)	TOTAL WEIGHT (3)
	PACKED BY AND DATE (4)	**NO. OF CONTAINERS (5)**	**TOTAL CUBE (6)**

RECEIVERS USE	RECEIVED BY AND DATE (7)	INSPECTED BY AND DATE (8)
	WAREHOUSED BY AND DATE (9)	**WAREHOUSE LOCATION (10)**

REMARKS (AA)	(BB)	(CC)	(DD)	(EE)
			THIS IS TO CERTIFY THAT THE ABOVE MATERIALS ARE PROPERLY CLASSIFIED, DISCRIBED, PACKAGED MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF DOT AND EPA.	

FIRST DESTINATION ADDRESS (11)	DATE SHIPPED (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

DD FORM 1348-1 1 MAR 74
S/N 0102-LF-013-1040

EDITION OF 1 JAN 64 MAY BE USED UNTIL EXHAUSTED

DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

☆ U.S. GOVERNMENT PRINTING OFFICE: 1986-491-647 (20093)

(1) 1 of 3

1

DOC. IDENT.	RI FROM	M & S	STOCK NUMBER FSC	STOCK NUMBER NIIN	ADD	UNIT OF ISSUE	QUANTITY	DOCUMENT NUMBER SERV	REQUISITIONER	DATE	SERIAL	SUFFIX	SUPPLEMENTARY ADDRESS SERV	SUPPLEMENTARY ADDRESS	SIGNAL	FUND	DISTRI-BUTION	PROJ ECT	PRI-ORITY	REQ'D DEL DATE	ADVICE	RI	UNIT PRICE DOLLARS	UNIT PRICE CTS.
B7J			9150	WASTE OIL		GL	12500	M	931827307		0003									14	NA			40

SHIPPED FROM	SHIP TO	MARK FOR	PROJECT	TOTAL PRICE DOLLARS	TOTAL PRICE CTS.
NATURAL RESOURCES MCB, CLNC	DRMO, MCB B CLNC	HW 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	V
W	ITEM NOMENCLATURE X WASTE OIL	CONTENTS OF TANK # STT 65

SHIPPERS USE	SELECTED BY AND DATE	TYPE OF CONTAINER(S)	TOTAL WEIGHT
	1	2	3
	PACKED BY AND DATE	NO. OF CONTAINERS	TOTAL CUBE
	4	5	6

RECEIVERS USE	RECEIVED BY AND DATE	INSPECTED BY AND DATE
	7	8
	WAREHOUSED BY AND DATE	WAREHOUSE LOCATION
	9	10

REMARKS		
AA	BB	CC

THIS IS TO CERTIFY THAT THE ABOVE MATERIALS ARE PROPERLY CLASSIFIED, DISCRIBED, PACKAGED MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF DOT AND EPA.

FF GG

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

DD FORM 1348-1 1 MAR 74
S/N 0102-LF-013-1040

EDITION OF 1 JAN 64 MAY BE USED UNTIL EXHAUSTED

DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

☆ U.S. GOVERNMENT PRINTING OFFICE: 1986-491-647 (20093)

12/2013

1

DOC. IDENT.	RI FROM	M & S	STOCK NUMBER FSC	STOCK NUMBER NIIN	ADD	UNIT OF ISSUE	QUANTITY	DOCUMENT NUMBER SERV	DOCUMENT NUMBER REQUISITIONER	DOCUMENT NUMBER DATE	DOCUMENT NUMBER SERIAL	SUFFIX SERV	SUPPLEMENTARY ADDRESS	SIGNAL	FUND	DISTRIBUTION	PROJECT	PRIORITY	REQ'D DEL DATE	ADVICE	RI	UNIT PRICE DOLLARS	UNIT PRICE CTS.
B7J			9150	WASTE OIL	GL		30000	M	931827307	0004								14	NA				40

SHIPPED FROM	SHIP TO	MARK FOR	PROJECT	TOTAL PRICE DOLLARS	TOTAL PRICE CTS.
MARINE CORPS AIR STATION NEW RIVER A	DRMO, MCB CLNC B	HW 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 WASTE OIL	V
W	ITEM NOMENCLATURE X WASTE OIL	Y CONTENTS OF TANK # AS 419

SHIPPERS USE	SELECTED BY AND DATE	TYPE OF CONTAINER(S)	TOTAL WEIGHT
	1	2	3
	PACKED BY AND DATE	NO. OF CONTAINERS	TOTAL CUBE
	4	5	6

RECEIVERS USE	RECEIVED BY AND DATE	INSPECTED BY AND DATE
	7	8
	WAREHOUSED BY AND DATE	WAREHOUSE LOCATION
	9	10

REMARKS			
AA	BB	CC	THIS IS TO CERTIFY THAT THE ABOVE MATERAILS ARE PROPERLY CLASSIFIED, DISCRIBED, PACKAGED MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF DOT AND EPA. DD EE FF GG

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

DD FORM 1348-1 1 MAR 74
S/N 0102-LF-013-1040

EDITION OF 1 JAN 64 MAY BE USED UNTIL EXHAUSTED

DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

☆ U.S. GOVERNMENT PRINTING OFFICE: 1986-491-647 (20093)

Enc (3)

1

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

DEPARTMENT OF THE NAVY

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.)

☆U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

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.

Elizabeth A. Betz

E. A. BETZ

6241/2
NREAD(L)

Date: 27 October 1987

From: Supervisory Chemist, Environmental Chemistry and Microbiology Section, Environmental Branch, NREAD

To: The Record

Subj: Phone Conversation with Nadine Hipp of DRMO on 27 Oct 87

Ref: (a) BMain Memo of 26 Oct 87

1. At approximately 1430 on 27 October 1987 I called Nadine Hipp about the reference. Nadine Hipp stated that Cliff Powel had told her that Don Gurganus had put more oil in the tanks at Tarawa Terrace after NREAD had sampled them. I stated that that was what I had been told also. I pointed out, however, that the analysis of tanks STT-64 and STT-65 showed them to be Hazardous Waste Fuel. I asked what further information she needed. She said that she had not understood from her conversation with Cliff Powell that the tanks were already classified as Hazardous Waste Fuel. She said in light of this information, she saw no need for further sampling and analysis.

Elizabeth A. Betz

TARAWA TERRACE

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) BMAIND, 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)

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)

Location: Camp Lejeune Date of Receipt: 9-23-87 Turnaround: 15 days

Date: 10-12-87 Case No. 138 Add 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							
		TOX %							
87-79 ● layer composite	61-0990	0.09							
87-80	61-0991	0.15							
●									

OPNAV 5216/144B (Rev. 8-81)
S/N 0107-LF-062-2322

DEPARTMENT OF THE NAVY

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 expodited.

David K. Bullock

DAVID K. BULLOCK

ENCLOSURE (21)

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

ENCLOSURE (3)

Location: Camp Lejeune Date of Receipt: 9-21-87 Turnaround: 10 days

Date: 10-5-87 Case No. 136 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							
		PCB ug/g	Flashpoint °C						
87-81 ST-64	61-0979	<5	28						
87-82 ST-65	61-0980	<5	35						
87-83 ST-66	61-0981	<5	30						

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 14

Location: Camp Lejeune Date of Receipt: 9-21-87 Turnaround: 15 days

Date: 10-12-87 Case No. 136 Add 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							
		TOX %	BTU per lb.	BS+W %	% water	Viscosity @ 210° F SUS			
87-81 STT-64	61-0979	0.23	17,000	22.0	10.3	41.4			
87-82 STT-65	61-0980	0.20	19,100	0.6	0.05	37.2			
87-83 STT-66	61-0981	<0.05	19,100	1.7	1.4	35.5			

ROUTINE REPLY, ENDORSEMENT, TRANSM[illegible]L OR INFORMATION SHEET
NAVEXOS-30[illegible] (Rev. 12-[illegible])
0104 90 1 4901

DATE 6 AUG 85

FROM

FILE NUMBER 11420PG

SUBJECT WAS

REFERENCE

TO: [illegible]

VIA

DUC - 12 AUG

Prepare Smooth draft (Final)

Transmitting this From

FM: Director NREAD (JIW's Signature)

To: BMO

Probably Need to Note that Water/Sediment Levels Look Better in 4/5 [illegible] than recent analysis of other Dams

REPORT 483

used in a window

[X] FORWARDED [ ] SUBMIT

X	MESSAGE
X	FOR APPROPRIATE ACTION
	FOR INFORMATION OR CERTIFICATION AND/OR FILE.
	[ ] APPROVED [ ] DISAPPROVED
	APPROVAL [ ] IS [ ] IS NOT RECOMMENDED
	CONCURRING IN RECOMMENDATIONS MADE IN THE BASIC CORRESPONDENCE.
	COMMENTS AND/OR RECOMMENDATIONS.
	MAILING LIST ACTION
	FOR ASSIGNMENT OF BUREAU FILE NUMBER(S)
	ON A LOAN BASIS RETURN BY _____
	SIGN ORIGINAL RECEIPT AND RETURN TO THIS OFFICE.
	SUBJECT FILES, WHICH ARE LOCATED IN BOX NO. _____ SHIPMENT NO. _____
	REPLY TO THE ABOVE REFERENCE(S) BY _____
	_____ COPY(IES) OF REFERENCE DESCRIBED ABOVE WAS/WERE NOT RECEIVED.
	SUBJECT DOCUMENT(S) WAS/WERE FORWARDED TO _____
	SUBJECT DOCUMENT(S) IS/ARE WAS/WERE RETURNED FOR _____

X	MESSAGE
	SUBJECT DOCUMENT(S) WAS/WERE FORWARDED TO YOUR OFFICE _____ AS A MATTER UNDER YOUR JURISDICTION.
	SUBJECT DOCUMENTS WAS/WERE APPROVED _____ AND FORWARDED TO YOU.
	_____ COPY(IES) OF THIS CORRESPONDENCE WITH YOUR REPLY.
	ENCLOSURE(S) _____ IS/ARE FORWARDED AS REQUESTED BY REFERENCE _____
	ENCLOSURE(S) IS/ARE RETURNED FOR CORRECTION AS INDICATED.
	CORRECTED ENCLOSURE(S) AS REQUESTED
	SUBJECT PERSON'S ATTENTION SHOULD BE INVITED TO THIS MATTER
	SUBJECT PERSON(S) REPORTED TO THIS COMMAND _____
	SUBJECT PERSON(S) COMPLETED HIS/THEIR DUTY AND WAS/WERE DETACHED FROM THIS COMMAND _____
	NAME AND LOCATION OF SUPPLIER OF SUBJECT ITEMS.
	SUBCONTRACT NUMBER FOR SUBJECT ITEM
	SUBJECT PURCHASE DOCUMENT HAS BEEN REQUESTED AND WILL BE FORWARDED WHEN RECEIVED.
	ENDORSEMENT _____ OF SUBJECT SUBCONTRACT IS BEING DELAYED PENDING RECEIPT OF BASIC PURCHASE DOCUMENT.
	APPROPRIATION SYMBOL SUBHEAD AND CHARGEABLE ACTIVITY
	WHETHER SUBJECT ITEMS ARE TO BE COMMERCIALLY SHIPPED OR AT GOVERNMENT EXPENSE
	A CERTIFICATE IN LIEU OF SUBJECT BILL OF LADING WHICH HAS BEEN LOST.

X	MESSAGE
	CERTIFY ENCLOSURE _____ AS TO RECEIPT AND ACCEPTANCE OF MATERIAL AND FORWARD TO _____
	_____ COPIES OF SUBJECT CHANGE ORDER AMENDMENT OR MODIFICATION
	CHANGE NOTICE TO THE SUPPLIER
	_____ COPIES OF APPLICABLE PLANS AND/OR SPECIFICATIONS.
	FOR PLAN ACTION AS INDICATED
	CLASSIFICATIONS OF DEFECTS FOR SUBJECT ITEMS
	CONFIRMATION THAT INSPECTION OR SOURCE INSPECTION IS NOT REQUIRED
	INSPECTION UNDER THE SUBJECT SUBCONTRACT IS NOT REQUIRED
	_____ COPIES OF SUBJECT PURCHASE DOCUMENT. IF SOURCE INSPECTION OR PROGRESSING IS REQUIRED
	STATUS OF MATERIAL ON SUBJECT PURCHASE DOCUMENT
	CLEARANCE AS INDICATED IN BASIC CORRESPONDENCE VERIFIED. NO REPLY UNLESS NEGATIVE.
	VERIFICATION OF NEED-TO-KNOW FOR VISIT PERSONNEL CLEARANCES VERIFIED.
	SEE REMARKS ON THE REVERSE SIDE.

COPY TO

[illegible] 114, 114$

SIGNATURE

David Boesch

U.S. Government Printing Office: 1973—739-007/2082 Region No. 3-11

ROUTINE REPLY, ENDORSEMENT, TRANSMITTAL OR INFORMATION SHEET
NAVEXOS-3098 (Rev. 12-[illegible])
0104 90 1 4901

DATE 6 AUG 85

FROM: LANTDIV Code 1142

FILE NUMBER: 6280 / 1142 0PG

SUBJECT: WASTE OIL TEST RESULTS

REFERENCE:

TO: MCB CAMP LEJEUNE
BASE MAINTENANCE
ENVIRONMENTAL AFFAIRS DIVISION

ENCLOSURE (1) JTC REPORT #83

This form may be used in a window envelope.

VIA

____ Endorsement on

☒ FORWARDED ☐ RETURNED ☐ FOLLOW-UP ☐ REQUEST ☐ ADVISE ☐ SUBMIT

X	MESSAGE	X	MESSAGE	X	MESSAGE
X	FOR APPROPRIATE ACTION		SUBJECT DOCUMENT(S) WAS/WERE FORWARDED TO YOUR OFFICE _____ AS A MATTER UNDER YOUR JURISDICTION.		CERTIFY ENCLOSURE _____ AS TO RECEIPT AND ACCEPTANCE OF MATERIAL AND FORWARD TO _____
	FOR INFORMATION OR CERTIFICATION AND/OR FILE.		SUBJECT DOCUMENTS WAS/WERE APPROVED _____ AND FORWARDED TO YOU.		_____ COPIES OF SUBJECT CHANGE ORDER AMENDMENT OR MODIFICATION
	☐ APPROVED ☐ DISAPPROVED		____ COPY(IES) OF THIS CORRESPONDENCE WITH YOUR REPLY.		CHANGE NOTICE TO THE SUPPLIER
	APPROVAL ☐ IS ☐ IS NOT RECOMMENDED		ENCLOSURE(S) _____ IS/ARE FORWARDED AS REQUESTED BY REFERENCE _____		_____ COPIES OF APPLICABLE PLANS AND/OR SPECIFICATIONS.
	CONCURRING IN RECOMMENDATIONS MADE IN THE BASIC CORRESPONDENCE.		ENCLOSURE(S) IS/ARE RETURNED FOR CORRECTION AS INDICATED.		FOR PLAN ACTION AS INDICATED
	COMMENTS AND/OR RECOMMENDATIONS.		CORRECTED ENCLOSURE(S) AS REQUESTED		CLASSIFICATIONS OF DEFECTS FOR SUBJECT ITEMS
	MAILING LIST ACTION		SUBJECT PERSON'S ATTENTION SHOULD BE INVITED TO THIS MATTER		CONFIRMATION THAT INSPECTION OR SOURCE INSPECTION IS NOT REQUIRED
	FOR ASSIGNMENT OF BUREAU FILE NUMBER(S)		SUBJECT PERSON(S) REPORTED TO THIS COMMAND _____		INSPECTION UNDER THE SUBJECT SUBCONTRACT IS NOT REQUIRED
	ON A LOAN BASIS RETURN BY _____		SUBJECT PERSON(S) COMPLETED HIS/THEIR DUTY AND WAS/WERE DETACHED FROM THIS COMMAND _____		_____ COPIES OF SUBJECT PURCHASE DOCUMENT. IF SOURCE INSPECTION OR PROGRESSING IS REQUIRED
	SIGN ORIGINAL RECEIPT AND RETURN TO THIS OFFICE.		NAME AND LOCATION OF SUPPLIER OF SUBJECT ITEMS.		STATUS OF MATERIAL ON SUBJECT PURCHASE DOCUMENT
	SUBJECT FILES, WHICH ARE LOCATED IN BOX NO. _____ SHIPMENT NO. _____		SUBCONTRACT NUMBER FOR SUBJECT ITEM		CLEARANCE AS INDICATED IN BASIC CORRESPONDENCE VERIFIED. NO REPLY UNLESS NEGATIVE.
	REPLY TO THE ABOVE REFERENCE(S) BY _____		SUBJECT PURCHASE DOCUMENT HAS BEEN REQUESTED AND WILL BE FORWARDED WHEN RECEIVED.		VERIFICATION OF NEED-TO-KNOW FOR VISIT PERSONNEL CLEARANCES VERIFIED.
	_____ COPY(IES) OF REFERENCE DESCRIBED ABOVE WAS/WERE NOT RECEIVED.		ENDORSEMENT ____ OF SUBJECT SUBCONTRACT IS BEING DELAYED PENDING RECEIPT OF BASIC PURCHASE DOCUMENT.		
	SUBJECT DOCUMENT(S) WAS/WERE FORWARDED TO _____		APPROPRIATION SYMBOL SUBHEAD AND CHARGEABLE ACTIVITY		
	SUBJECT DOCUMENT(S) IS/ARE WAS/WERE RETURNED FOR _____		WHETHER SUBJECT ITEMS ARE TO BE COMMERCIALLY SHIPPED OR AT GOVERNMENT EXPENSE		
			A CERTIFICATE IN LIEU OF SUBJECT BILL OF LADING WHICH HAS BEEN LOST.		SEE REMARKS ON THE REVERSE SIDE.

COPY TO: 1142, 114, 114S

SIGNATURE: David Bowden

U.S. Government Printing Office: 1973—739-007/2082 Region No. 3-11

REPORT #83

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT #85-309

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

JULY 31, 1985

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Date 7-31-85 Report No. 83 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85 309 Table 1 Date of Sample Receipt 6-18-85

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Flashpoint °F	Reactivity		Corrosivity (pH)	BTU per lb.	% sulfur	Phenols mg/kg	% water/sediment
			CN mg/kg	Sulfide mg/kg					
#58	12-0959	105	<0.8	93.7	8.0-9.0	15,000	0.47	30	16.8
#59	12-0960	123	<0.8	19.8	7.0-8.0	16,000	0.29	<30	15.0
#60	12-0961	165	<0.8	6.2	8.0-9.0	9,500	0.25	<30	49.5
#61	12-0962	130	<0.8	38.2	9.0-10.0	15,000	0.32	<30	15.0
#62	12-0963	127	<0.8	22.5	7.0-8.0	15,000	0.25	<30	10.0

JTC Environmental Consultants, Inc.

Date 7/31/85 Report No. 83 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85-309 Table 2 Date of Sample Receipt 6-18-85

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		As mg/kg	Ba mg/kg	Cd mg/kg	Cr mg/kg	Pb mg/kg	Hg mg/kg	Se mg/kg	Ag mg/kg
#58	12-0959	<1.0	22.8	2.0	6.4	49	<0.1	<0.4	1.0
#59	12-0960	<1.0	28.0	1.8	2.7	30	<0.1	<0.4	1.4
#60	12-0961	<1.0	<20	1.9	5,4	18	<0.1	<0.4	<1.0
#61	12-0962	<1.0	25.2	1.9	3.6	59	<0.1	<0.4	1.3
#62	12-0963	<1.0	25.3	1.1	2.7	12	<0.1	<0.4	<1.0

JTC Environmental Consultants, Inc.

Date 7/31/85 Report No. 83 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85-309 Table 3 Date of Sample Receipt 6-18-85

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		PCB ug/g	VOA						
#58	12-0959	< 1	see + attached sheet						
#59	12-0960	< 1	" +						
#60	12-0961	< 1	" +						
#61	12-0962	< 1	" +						
#62	12-0963	< 1	" +						

+ Tentatively Identified Compounds report sheet also attached

JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0959 PROJECT NO. NF-12

CLIENT SAMPLE ID # 58 DATE RECEIVED 6-18-85

METHOD NO. 624 DETECTION LIMIT 50,000 ug/lit

PARAMETER	RESULT ug/lit
2V acrolein	N.D.
3V acrylonitrile	N.D.
4V benzene	253,000 ~~N.D.~~
6V carbon tetrachloride	N.D.
7V chlorobenzene	N.D.
10V 1,2-dichloroethane	N.D.
11V 1,1,1-trichloroethane	N.D.
13V 1,1-dichloroethane	N.D.
14V 1,1,2-trichloroethane	N.D.
15V 1,1,2,2-tetrachloroethane	N.D.
16V chloroethane	N.D.
19V 2-chloroethylvinyl ether	N.D.
23V chloroform	N.D.
29V 1,1-dichloroethylene	N.D.
30V 1,2-trans-dichloroethylene	N.D.
32V 1,2-dichloropropane	N.D.
33V 1,3-dichloropropylene	N.D.
38V ethylbenzene	263,000 ~~N.D.~~
44V methylene chloride	N.D.
45V methyl chloride	N.D.
46V methyl bromide	N.D.
47V bromoform	N.D.
48V dichlorobromomethane	N.D.
49V trichlorofluoromethane	N.D.
50V dichlorodifluoromethane	N.D.
51V chlorodibromomethane	N.D.
85V tetrachloroethylene	N.D.
86V toluene	1,250,000 ~~N.D.~~
87V trichloroethylene	115,000 ~~N.D.~~
88V vinyl chloride	N.D.
Xylenes	1,040,000

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

*Below method detection limit

Client Report No. 83

JTC Report No. 85-309

TENTATIVELY IDENTIFIED COMPOUNDS

Laboratory Sample ID 12-0959 Client Sample ID 58

	COMPOUND	ESTIMATED CONCENTRATION
	Trichlorotrifluoroethane	1800,000 µg/l
*	Pentene	40,000 µg/l
	Hydrocarbon (C_5H_{12})	365,000 µg/l
*	Hexene	35,000 µg/l
	Hydrocarbon (C_6H_{12})	235,000 µg/l
	Dimethyl butane	135,000 µg/l
	Methylpentane	990,000 µg/l
	Hexane	400,000 µg/l
	Dimethylpentane	115,000 µg/l
	Methylhexane	720,000 µg/l
	Dimethylheptane	365,000 µg/l
	Propylbenzene	85,000 µg/l

* Below detection limit

JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0960 PROJECT NO. NF-12

CLIENT SAMPLE ID # 59 DATE RECEIVED 6-18-85

METHOD NO. 624 DETECTION LIMIT 50,000 ug/lit

PARAMETER	RESULT ug/lit
2V acrolein	N.D.
3V acrylonitrile	N.D.
4V benzene	78,700 ~~N.D.~~
6V carbon tetrachloride	N.D.
7V chlorobenzene	N.D.
10V 1,2-dichloroethane	N.D.
11V 1,1,1-trichloroethane	N.D.
13V 1,1-dichloroethane	N.D.
14V 1,1,2-trichloroethane	N.D.
15V 1,1,2,2-tetrachloroethane	N.D.
16V chloroethane	N.D.
19V 2-chloroethylvinyl ether	N.D.
23V chloroform	N.D.
29V 1,1-dichloroethylene	N.D.
30V 1,2-trans-dichloroethylene	N.D.
32V 1,2-dichloropropane	N.D.
33V 1,3-dichloropropylene	N.D.
38V ethylbenzene	133,000 ~~N.D.~~
44V methylene chloride	N.D.
45V methyl chloride	N.D.
46V methyl bromide	N.D.
47V bromoform	N.D.
48V dichlorobromomethane	N.D.
49V trichlorofluoromethane	666,000 ~~N.D.~~
50V dichlorodifluoromethane	N.D.
51V chlorodibromomethane	N.D.
85V tetrachloroethylene	N.D.
86V toluene	501,000 ~~N.D.~~
87V trichloroethylene	N.D.
88V vinyl chloride	N.D.
xylenes	506,000

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

*Below method detection limit

Client Report No. 83

JTC Report No. 85-309

TENTATIVELY IDENTIFIED COMPOUNDS

Laboratory Sample ID 12-0960 Client Sample ID 59

COMPOUND	ESTIMATED CONCENTRATION
Trichlorotrifluoroethane	1,253,400 µg/l
* Hexene	32,000 µg/l
* Hydrocarbon (C_6H_{12})	44,600 µg/l
Hexane	81,300 µg/l
Methylhexane	191,000 µg/l
Dimethylheptane	57,500 µg/l
Propylbenzene	67,000 µg/l

* Below Detection Limit

JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0961 PROJECT NO. NF-12

CLIENT SAMPLE ID #60 DATE RECEIVED 6-18-85

METHOD NO. 624 DETECTION LIMIT 50,000 ug/lit

PARAMETER	RESULT ug/lit
2V acrolein	N.D.
3V acrylonitrile	N.D.
4V benzene	71,900 ~~N.D.~~
6V carbon tetrachloride	N.D.
7V chlorobenzene	N.D.
10V 1,2-dichloroethane	N.D.
11V 1,1,1-trichloroethane	N.D.
13V 1,1-dichloroethane	N.D.
14V 1,1,2-trichloroethane	N.D.
15V 1,1,2,2-tetrachloroethane	N.D.
16V chloroethane	N.D.
19V 2-chloroethylvinyl ether	N.D.
23V chloroform	N.D.
29V 1,1-dichloroethylene	N.D.
30V 1,2-trans-dichloroethylene	N.D.
32V 1,2-dichloropropane	N.D.
33V 1,3-dichloropropylene	N.D.
38V ethylbenzene	83,800 ~~N.D.~~
44V methylene chloride	N.D.
45V methyl chloride	N.D.
46V methyl bromide	N.D.
47V bromoform	N.D.
48V dichlorobromomethane	N.D.
49V trichlorofluoromethane	195,000 ~~N.D.~~
50V dichlorodifluoromethane	N.D.
51V chlorodibromomethane	N.D.
85V tetrachloroethylene	N.D.
86V toluene	321,000 ~~N.D.~~
87V trichloroethylene	N.D.
88V vinyl chloride	N.D.
xylenes	391,000

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

*Below method detection limit

Client Report No. 83

JTC Report No. 85-309

TENTATIVELY IDENTIFIED COMPOUNDS

Laboratory Sample ID 12-0961 Client Sample ID 60

	COMPOUND	ESTIMATED CONCENTRATION
	Trichlorotrifluoroethane	780,000 ug/l
*	Hexane	36700 ug/l
	Methylhexane	94000 ug/l
*	Hydrocarbon (C_8H_{18})	47000 ug/l
	Hydrocarbon (C_9H_{18})	41000 ug/l

* Below Detection Limit

JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0962 PROJECT NO. NF-12

CLIENT SAMPLE ID #61 DATE RECEIVED 6-18-85

METHOD NO. 624 DETECTION LIMIT 50,000 ug/lit

PARAMETER	RESULT ug/lit
2V acrolein	N.D.
3V acrylonitrile	N.D.
4V benzene	65,800 ~~N.D.~~
6V carbon tetrachloride	N.D.
7V chlorobenzene	N.D.
10V 1,2-dichloroethane	N.D.
11V 1,1,1-trichloroethane	N.D.
13V 1,1-dichloroethane	N.D.
14V 1,1,2-trichloroethane	N.D.
15V 1,1,2,2-tetrachloroethane	N.D.
16V chloroethane	N.D.
19V 2-chloroethylvinyl ether	N.D.
23V chloroform	N.D.
29V 1,1-dichloroethylene	N.D.
30V 1,2-trans-dichloroethylene	N.D.
32V 1,2-dichloropropane	N.D.
33V 1,3-dichloropropylene	N.D.
38V ethylbenzene	39,900 ~~N.D.~~
44V methylene chloride	N.D.
45V methyl chloride	N.D.
46V methyl bromide	N.D.
47V bromoform	N.D.
48V dichlorobromomethane	N.D.
49V trichlorofluoromethane	13,500 ~~N.D.~~
50V dichlorodifluoromethane	N.D.
51V chlorodibromomethane	N.D.
85V tetrachloroethylene	N.D.
86V toluene	205,000 ~~N.D.~~
87V trichloroethylene	N.D.
88V vinyl chloride	N.D.
xylenes	155,000

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

*Below method detection limit

Client Report No. 83

JTC Report No. 85-309

TENTATIVELY IDENTIFIED COMPOUNDS

Laboratory Sample ID 12-0962 Client Sample ID 61

	COMPOUND	ESTIMATED CONCENTRATION
*	Butane	27000 µg/l
	Trichlorotrifluoroethane	1,755,000 µg/l
	Pentane	100,700 µg/l
	Dimethylcyclopropane	64,700 µg/l
	Methyl pentane (cyclo)	80,000 µg/l
*	Dimethyl butane	41,700 µg/l
	Methylpentane	459,000 µg/l
	Hexane	151,600 µg/l
	Methylhexane	235,600 µg/l
	Hydrocarbon (C_8H_{18})	151,000 µg/l

* Below Detection Limit

JTC ENVIRONMENTAL CONSULTANTS, INC.
PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 12-0963 PROJECT NO. NF-12

CLIENT SAMPLE ID #62 DATE RECEIVED 6-18-85

METHOD NO. 624 DETECTION LIMIT 50,000 ug/lit

PARAMETER	RESULT ug/lit
2V acrolein	N.D.
3V acrylonitrile	N.D.
4V benzene	114,000 ~~N.D.~~
6V carbon tetrachloride	N.D.
7V chlorobenzene	N.D.
10V 1,2-dichloroethane	N.D.
11V 1,1,1-trichloroethane	N.D.
13V 1,1-dichloroethane	N.D.
14V 1,1,2-trichloroethane	N.D.
15V 1,1,2,2-tetrachloroethane	N.D.
16V chloroethane	N.D.
19V 2-chloroethylvinyl ether	N.D.
23V chloroform	N.D.
29V 1,1-dichloroethylene	N.D.
30V 1,2-trans-dichloroethylene	N.D.
32V 1,2-dichloropropane	N.D.
33V 1,3-dichloropropylene	N.D.
38V ethylbenzene	129,000 ~~N.D.~~
44V methylene chloride	N.D.
45V methyl chloride	N.D.
46V methyl bromide	N.D.
47V bromoform	N.D.
48V dichlorobromomethane	N.D.
49V trichlorofluoromethane	N.D.
50V dichlorodifluoromethane	N.D.
51V chlorodibromomethane	N.D.
85V tetrachloroethylene	N.D.
86V toluene	397,000 ~~N.D.~~
87V trichloroethylene	N.D.
88V vinyl chloride	N.D.
xylenes	550,000

N.D. = NOT DETECTED
N.A. = NOT APPLICABLE/ANALYZED

*Below method detection limit

Client Report No. 83

JTC Report No. 85-309

TENTATIVELY IDENTIFIED COMPOUNDS

Laboratory Sample ID 12-0963 Client Sample ID 62

COMPOUND	ESTIMATED CONCENTRATION
Trichlorotrifluoroethane	8,000,000 µg/l
Pentane	127,000 µg/l
Hydrocarbon (C_6H_{12})	90,000 µg/l
Dimethylbutane	49000 µg/l
Methylpentane	560,000 µg/l
Hexane	200,000 µg/l
Methylhexane	300,000 µg/l

	#58	#59	#[redacted]	#61	#62
FLASH POINT °F	105	123	165	130	127
REACTIVITY					
CN mg/kg	<0.8	<0.8	<0.8	<0.8	<0.8
SULFIDE mg/k	93.7	19.8	6.2	38.2	22.5
CORROSIVITY					
pH	8.0-9.0	7.0-8.0	8.0-9.0	9.0-10.0	7.0-8.0
% SULFUR	0.47	0.29	0.25	0.32	0.25
PHENOLS	30	<30	<30	<30	<30
% WATER/SEDIMENT	16.8	15.0	49.5	15.0	10.0
METALS mg/kg					
As 5ppm	<1.0	<1.0	4.0	<1.0	<1.0
Ba 100ppm	22.8	28.0	<20	25.2	25.3
Cd 1ppm	2.0	1.8	1.9	1.9	1.1
Cr 5ppm	6.4	2.7	5.4	3.6	2.7
Pb 5ppm	49	30	18	59	12
Hg 0.2ppm	<0.1	<0.1	<0.1	<0.1	<0.1
Se 1.0ppm	<0.4	<0.4	<0.4	<0.4	<0.4
Ag 5ppm	1.0	1.4	<1.0	1.3	<1.0
PCB	<1	<1	<1	<1	<1
VOAs (ppb)					
BENZENE	253,000	78,700	71,900	65,8000	114,000
ETHYLBENZENE	263,000	133,000	83,800	39,900	129,000
TOLUENE	1,250,000	501,000	321,000	285,000	397,000
TRICHLOROETHYENE	115,000	ND	ND	ND	ND
XYLENES	1,040,000	506,000	391,000	155,000	550,000
FREON	1,800,000	1,253,400	780,000	1,755,000	2,000,000
TRICHLOROFLUORO METHANE	ND	666,000	195,000	13,500	ND
PENTANE				100,700	127,000
DIMETHYLBUTANE	135,000			41,700 *	49,000 ~~90,000~~
METHYL PENTANE	990,000	191,000 81,300		459,000	560,000
HEXANE	400,000	~~32,000~~ *	36,700 *	151,600	200,000
METHYL HEXANE	720,000		94,000	235,600	300,000

	#58	#59	#[redacted]	#61	#62
HYDROCARBONS (C_6H_{12})	235,000	44,600 *			90,000
HYDROCARBONS (C_8H_{18})			47,000 *	151,000	
METHYL PENTANE (CYCLO)				80,000	
DIMETHYLCYCLO PROPANE				64,700	
BUTANE				27,000 *	
HYDROCARBONS (C_9H_{18})			41,000		
HEXENE	35,000 *	32,000 *			
DIMETHYL HEPTANE	365,000	57,500			
PROPYL BENZENE	85,000	67,000			
PENTENE	40,000 *				
HYDROCARBON (C_5H_{12})	365,000				
DIMETHYL PENTANE	115,000				

6241/2
NREAD
13 August 1985

From: Supervisory Chemist, Water Quality Control Lab, Environmental Branch
To: Director, Natural Resources and Environmental Affairs Division
Via: Supervisory Ecologist, Environmental Branch

Subj: WASTE OIL ANALYSIS

Ref: (a) BMO ltr 5000 MAIN of 31 May 1985

Encl: (1) JTC Environmental Consultants, Inc. Report No. 83 Dated 31 July 1985

1. The enclosure provides data requested by the reference for five of the six waste oil storage tanks at Tarawa Terrace. Navy sample ID #58 corresponds to tank S-TT-61, #59 to tank S-TT-62, #60 to tank S-TT-63, #61 to tank S-TT-64 and #62 to tank S-TT-65. On 6 June 1985 when the tanks were sampled, tank S-TT-66 was not completely full so it was not sent off for analysis.

ELIZABETH A. BETZ

- -

NREAD
14 Aug 1985

FIRST ENDORSEMENT

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

1. Readdressed and forwarded for your information.

J. I. WOOTEN

6241/2
NREAD
13 August 1985

From: Supervisory Chemist, Water Quality Control Lab, Environmental Branch
To: Director, Natural Resources and Environmental Affairs Division
Via: Supervisory Ecologist, Environmental Branch

Subj: WASTE OIL ANALYSIS

Ref: (a) BMO ltr 5000 MAIN of 31 May 1985

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ELIZABETH A. BETZ

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIV
Marine Corps Base
Camp Lejeune, North Carolina 28542

5 June 85
(Date)

From: Supervisory Ecologist

To: Supervisory Chemist

Subj: Waste oil Analyses of S-TT61-66.

Encl (1) Trans. Genforcreason, BMD 4th 500/MAINT
of 31 May 85

1. Please complete the work requested in the enclosure N.L.T. June 7, 1985. Be sure filling has been completed in each tank before shipping samples. I have requested L. D Shepard to check on this. Call him @ 5158, 2636.

Danny Hayes

Dd W Daily Action

Received 5-June-85

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

IN REPLY REFER TO
5000
MAIN
31 May 85

From: Transportation General Foreman
To: Director, Natural Resources and Environmental Affairs Division
Via: (1) Ground Structures General Foreman
(2) Director, Maintenance and Repair Branch
(3) Base Maintenance Officer

Subj: WASTE OIL ANALYSIS

1. It is requested that tanks S-TT-66, S-TT-65, S-TT-64, S-TT-63, S-TT-62, S-TT-61 be analyzed for immediate sale.

Donald Gurganus
DONALD GURGANUS

SHEET # _____

SAMPLE # 58 DATE COLLECTED 6/6/85 TIME COLLECTED _____

NAME OF COLLECTOR _____. LOCATION AND DESCRIPTION OF ITE

SAMPLED TT Tank # 1

COMMENTS: _____

SAMPLE # 59 DATE COLLECTED 6/6/85 TIME COLLECTED _____

NAME OF COLLECTOR _____. LOCATION AND DESCRIPTION OF ITE

SAMPLED Tank # 2

COMMENTS _____

SAMPLE # 60 DATE COLLECTED 6/6/85 TIME COLLECTED _____

NAME OF COLLECTOR C _____. LOCATION AND DESCRIPTION OF I

SAMPLED Tank # 3

COMMENTS _____

SAMPLE # 61 DATE COLLECTED 6/6/85 TIME COLLECTED _____

NAME OF COLLECTOR Tank # 4 _____. LOCATION AND DESCRIPTION OF I

SAMPLED _____

COMMENTS _____

SHEET #

SAMPLE # 62 DATE COLLECTED 6/6/85 TIME COLLECTED

NAME OF COLLECTOR . LOCATION AND DESCRIPTION OF ITE

SAMPLED tank #5

COMMENTS:

SAMPLE # 63 DATE COLLECTED 6/6/85 TIME COLLECTED

NAME OF COLLECTOR . LOCATION AND DESCRIPTION OF ITE

SAMPLED tank #6

COMMENTS Least full (2ft')

SAMPLE # DATE COLLECTED TIME COLLECTED

NAME OF COLLECTOR . LOCATION AND DESCRIPTION OF I

SAMPLED

COMMENTS

SAMPLE # DATE COLLECTED TIME COLLECTED

NAME OF COLLECTOR . LOCATION AND DESCRIPTION OF I

SAMPLED

COMMENTS

5200
NREAD
10 June 1985

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

Subj: TRANSPORTATION OF LABORATORY SAMPLES; REQUEST FOR

1. Request shipment of five samples to JTC Environmental Consultants, Incorporated, Suite L-10, 4 Research Place, Rockville, Maryland 20850, Attn: Navy Contractor (phone 301/921/9790).

J. I. WOOTEN

Blind copy to:
SupvChem

Writer: E. Betz, NREAD 5977
Typist: J. Cross 10Jun85

PACKAGING AND PRESERVATION WORK REQUEST

MCBCL 4030 (REV 3 - 70)

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

FROM (UNIT)	DATE	UNIT PRIORITY DESIGNATOR
WATER QUALITY CONTROL LAB	10 JUNE 1985	ASAP
PERSON FAMILIAR WITH WORK REQUESTED	**PHONE**	**BLDG NO.**
ELIZABETH A. BETZ	5977	65

FOLLOWING WORK IS REQUESTED

PACKAGE 5 SAMPLES FOR SHIPMENT BY FRIEGHT TRAFFIC

TYPE WORK REQUESTED (X)	
(*)PACKAGE AND PRESERVE ☐ LEVEL ☐ A ☐ B ☐ C	(*)PACK ☐ LEVEL ☐ A ☐ B ☐ C
CONSTRUCT BOXES ☐ CRATES ☐	PAINT AND MARK ☐ TACTICAL MARK ☐ YES ☐ NO

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

CHAIN OF CUSTODY IS INVOLVED; A LAB TECHNICIAN HAS TO STAY WITH SAMPLES UNTIL PACKAGED

DEAD LINE DELIVERY DATE	WR NO.	SIGNATURE
		ELIZABETH A. BETZ

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 & 94 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	NO. PER INTERMEDIATE PACKAGE	NO. OF ITEMS PER PACK	ITEMS PER MULTIPLE PACK NO. OF PACK
1.							
2.							
3.							
4.							
5.							
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26.							
27.							

DATE RECORDED BY P&P BRANCH

PICKED UP BY

DATE COMPLETED BY P&P BRANCH

DATE