HAZARDOUS
WASTE

APR 1986
UTILITIES
DIVISION
LANTDIV

REPORT # 252

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT # 86-209

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 23, 1986

Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

APR 1986
UTILITIES
DIVISION
LANTDIV

REPORT # 252

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT # 86-209

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 23, 1986

Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 3/18/86 Turnaround: routine

Date: 4-23-86 Report No. 252 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-209 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		pH	Cyanide mg/kg	Sulfide mg/L	Flashpoint °C	TOX * %			
86-01	12-2318	1.93	<0.5	120	Flame at ~70	<0.01			
86-02	12-2319	5.50	<0.5	310	42	5.77			
86-03	12-2320	3.58	1.7	460	>100	0.04			

* Test according to ASTM D808

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 3/18/86 Turnaround: routine

Date: 4-23-86 Report No. 252 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-209 Table 2

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		As	Ba	Cd	Cr	Pb	Hg	Se	Ag
86-01	12-2318	1 mg/kg	<10 mg/kg	12 mg/kg	<0.5 mg/kg	98 mg/kg	<0.1 mg/kg	0.35 mg/kg	<0.5 mg/kg
86-02	12-2319	<0.1 mg/kg	<4 mg/kg	<0.1 mg/kg	<0.2 mg/kg	<2 mg/kg	<0.1 mg/kg	<0.1 mg/kg	0.4 mg/kg
86-03 oil layer	12-2320	<0.25 mg/kg	<10 mg/kg	0.3 mg/kg	<0.5 mg/kg	<5 mg/kg	<0.1 mg/kg	<0.25 mg/kg	<0.5 mg/kg
86-03 water layer	12-2320	1200 ug/L	<200 ug/L	2080 ug/L	1690 ug/L	<100 ug/L	0.29 ug/L	<10 ug/L	<20 ug/L

16 JUN 1987

CASE # 570 Addendum

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT # 87-197

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

JUNE 10, 1987

Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 4-9-87 Turnaround: routine

Date: 6-10-87 Case No. 570 Add. to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-197 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Organic N % wt.							
composite of 87-35 and 87-36	12-4589 A+B	0.0013							

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
87-49	61-0305	19.5	19.5	93.6	15,550	<0.05	N.O. boiled at 70°	0.73	0.92
87-50	61-0306	13.5	20.0	100.8	16,500	0.20	N.O. boiled at 50°	0.77*	—
87-51	61-0307	17.6	24.0	103.8	15,500	<0.05	N.O. boiled at 45°	0.72	0.96
87-52	61-0308	0.76	0.80	53.0	19,300	0.12	35	0.73	0.88
87-53	61-0309	8.4	13.5	100.8	17,500	0.16	40	0.73	0.93
87-54	61-0310	8.1	13.0	56.1	17,500	0.25	35	0.75	0.88
87-55	61-0311	18.4	23.0	97.0	15,000	0.13	N.O. boiled at 45°	0.76	0.98
87-56	61-0312	12.0	17.5	104.6	16,650	0.22	40	0.73	0.89
87-57	61-0313	19.6	22.0	120.2	15,100	<0.05	N.O. boiled at 45°	0.76	0.98

N.O. = not observed

a = top layer b = bottom layer

* sample consisted of only one oil layer

JTC Environmental Consultants, Inc.

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

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

JTC Data Report No. 87-247 Table 2

Oil Phase

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

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

JTC Environmental Consultants, Inc.

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

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

JTC Data Report No. 87-247 Table 3

Water Phase Composite

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

JTC 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				

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

JTC Environmental Consultants, Inc.

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				

JTC DATA REPORT # 87-247

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 42 Addendum A

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

August 17, 1987

Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

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

Date: 8/17/87 Case No. 42 Add. A to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-247 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Phenols mg/L	Freon * mg/L	VOA					
87-50	61-0306	67	2400	see attached sheet					
87-52	61-0308	33	830	"					
87-53	61-0309	17	2800	"					
87-54	61-0310	70	2800	"					
87-55	61-0311	48	2000	"					
87-56	61-0312	45	730	"					

* 1,1,2-trichloro-1,2,2-trifluoroethane

J
T
C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0306 PROJECT NO. NF-61 #42

CLIENT SAMPLE # 87-56 DATE RECEIVED 6/5/87

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	30 * ~~ND~~	ethylbenzene	120 * ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	170 * ~~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	330 ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	570 ~~ND~~
		MEK	ND

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

J
T
C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0308 PROJECT NO. NF-61 #42

CLIENT SAMPLE # 87-52 DATE RECEIVED 6/5/87

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	40 X ~~ND~~	ethylbenzene	140 X ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	50 X ~~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	130 X ~~ND~~	toluene	320 ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	740 ~~ND~~
		MEK	ND

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

J T C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0309 PROJECT NO. NF-61 #42

CLIENT SAMPLE # 87-53 DATE RECEIVED 6/5/87

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	30 X ~~ND~~	ethylbenzene	140 X ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	50 X ~~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	320 ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	730 ~~ND~~
		MEK	ND

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

J T C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0310 PROJECT NO. NF-61 #42

CLIENT SAMPLE # 87-54 DATE RECEIVED 6/5/87

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 360	~~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 830	~~ND~~
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene 1500	~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
2-HEXANONE (methyl n-butyl ketone)	1500	xylenes 1700	~~ND~~
		MEK	ND

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

J T C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0311 PROJECT NO. NF-61 #42

CLIENT SAMPLE # 87-55 DATE RECEIVED 6/5/87

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	50* ~~ND~~	ethylbenzene	140* ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	30* ~~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	290 ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	700 ~~ND~~
		MEK	ND

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

J
T
C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0312 PROJECT NO. NF-61 #2

CLIENT SAMPLE # 87-56 DATE RECEIVED 6/5/87

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	20 * ~~ND~~	ethylbenzene	90 * ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	80 * ~~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	210 * ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	430 ~~ND~~
		MEK	ND

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

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: 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	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						

0 2 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

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

14 OCT 1987

Partial Results

JTC DATA REPORT # 87-444

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 138

PREPARED FOR:

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

PREPARED BY:

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

OCTOBER 7, 1987

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

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

Date: 10-7-87 Case No. 138 to Naval Facilities Engineering Command, Norfolk, 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 # 61-0986 PROJECT NO. NF-61 #138

CLIENT SAMPLE # 87-31 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	50 * ~~ND~~	ethylbenzene	100 * ~~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	200 * ~~ND~~
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene	390 ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	70 * ~~ND~~
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
2-HEXANONE	430	xylenes	580 ~~ND~~
		FREON	2900

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

J
T
C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0987 PROJECT NO. NF-61 #138

CLIENT SAMPLE # 87-32 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	410 ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	410 ~~ND~~	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	640 ~~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	100 * ~~ND~~
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
Acetone	1900	xylenes	1900 ~~ND~~
2-Hexanone	1700	Freon	9300
4-Methyl-2-Pentanone (MIBK)	380		

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

J
T
C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0988 PROJECT NO. NF-61 #138

CLIENT SAMPLE # 87-33 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	390 ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	380 ~~ND~~	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	560 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	100 * ~~ND~~
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1800	xylenes	2000 ~~ND~~
4-METHYL-2-PENTANONE (MIBK)	380	FREON	8200
2-HEXANONE	1600		

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

J
T
C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-0989 PROJECT NO. NF-61 #138

CLIENT SAMPLE # 87-34 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	100 * ~~ND~~	ethylbenzene	620 ~~ND~~
carbon tetrachloride	ND	methylene chloride	ND
chlorobenzene	ND	methyl chloride	ND
1,2-dichloroethane	ND	methyl bromide	ND
1,1,1-trichloroethane	310 ~~ND~~	bromoform	ND
1,1-dichloroethane	ND	dichlorobromomethane	ND
1,1,2-trichloroethane	ND	trichlorofluoromethane	310 ~~ND~~
1,1,2,2-tetrachloroethane	ND	dichlorodifluoromethane	ND
chloroethane	ND	chlorodibromomethane	ND
2-chloroethylvinylether	ND	tetrachloroethylene	ND
chloroform	ND	toluene	1200 ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	100 * ~~ND~~
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
ACETONE	1400	xylenes	2000 ~~ND~~
4-METHYL-2-PENTANONE (MIBK)	350	FREON	5200
2-HEXANONE	3300		

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

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
ACETONE	2300	xylenes 2100	~~ND~~
4-METHYL-2-PENTANONE (MIBK)	500	FREON	600
2-HEXANONE	1500		

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

0 2 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

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

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

JTC Environmental Consultants, Inc.

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

Addendum

JTC DATA REPORT # 87-474

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 139

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 30, 1987

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 9-25-87 Turnaround: routine

Date: 10-30-87 Case No. 139 Add to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-474 Table 1 of 2

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Total Hg mg/kg							
87-84	61-0993	<0.1							

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 9-25-87 Turnaround: routine

Date: 10-30-87 Case No. 139 Add to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-474 Table 2 of 2

NAVY SAMPLE ID	JTC SAMPLE ID	EP Tox Metals - Leachate							
		As mg/L	Ba mg/L	Cd mg/L	Cr mg/L	Pb mg/L	Hg ug/L	Se mg/L	Ag mg/L
87-84	61-0993	<0.02	0.73	0.42	<0.02	0.70	<0.2	<0.20	<0.02

Addendum A

JTC DATA REPORT # 87-474

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 139

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

NOVEMBER 2, 1987

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 9-25-87 Turnaround: routine

Date: 11-2-87 Case No. 139 Add A to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-474 Table 1 of 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Flashpoint °C							
87-84	61-0993	48							

21 DEC 1987

Complete

JTC DATA REPORT # 87-547

LABORATORY ANALYSIS ON NAVAL SAMPLES

CONTRACT #N62470-86-C-8754

CASE # 184

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

DECEMBER 15, 1987

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 11-18-87 Turnaround: routine

Date: 12-15-87 Case No. 184 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-547 Table 1 of 2

NAVY SAMPLE ID	JTC SAMPLE ID	EP Tox Metals - Totals							
		As mg/kg	Ba mg/kg	Cd mg/kg	Cr mg/kg	Pb mg/kg	Se mg/kg	Ag mg/kg	Hg mg/kg
88-29	61-1307	<10	<10	<0.25	0.9	72	<10	<0.5	0.1
88-30	61-1308	<10	<10	<0.25	1.1	926	<10	<0.5	<0.1
88-31	61-1309	<10	27	51	159	700	<10	20	<0.1

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 11-18-87 Turnaround: routine

Date: 12-15-87 Case No. 184 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 87-547 Table 2 of 2

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		VOA + Freon	TOX % Cl						
88-06	61-1303	see attached sheet	0.72						
88-12	61-1304	"	0.34						
88-17	61-1305	"	0.26						
88-24	61-1306	"	0.07						

Note: Analyses run on oil layer

J T C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-1303 PROJECT NO. NF-61 #184

CLIENT SAMPLE # 88-06 DATE RECEIVED 11-18-87

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	ND	ethylbenzene	175* ~~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	175* ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
2-butanone (MEK)	300	xylenes	1,100 ~~ND~~
4-methyl-2-pentanone (MIBK)	125*	1,1,2-trichloro-1,2,2,-trifluoroethane (freon)	~~ND~~ 32,400
2-hexanone (MBK)	800		

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

Note: Sample matrix prevented analysis at a lower detection limit

J T C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-1304 PROJECT NO. NF-61 #184

CLIENT SAMPLE # 88-12 DATE RECEIVED 11-18-87

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	25* ~~ND~~	ethylbenzene	200* ~~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	300 ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	1500 ~~ND~~

1,1,2-trichloro-1,2,2,-trifluoroethane (freon) ~~ND~~ 13,200

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

Note: Sample matrix prevented analysis at a lower detection limit

J
T
C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-1305 PROJECT NO. NF-61 #184

CLIENT SAMPLE # 88-17 DATE RECEIVED 11-18-87

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	ND	ethylbenzene	50* ~~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	100* ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	500 ~~ND~~
		1,1,2-trichloro-1,2,2,-trifluoroethane (freon)	~~ND~~ 7,000

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

Note: Sample matrix prevented analysis at a lower detection limit

J T C Environmental Consultants, Inc.

PRIORITY POLLUTANT ANALYSIS DATA SHEET

VOLATILE FRACTION

JTC SAMPLE # 61-1306 PROJECT NO. NF-61 #184

CLIENT SAMPLE # 88-24 DATE RECEIVED 11-18-87

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	25* ~~ND~~	ethylbenzene	400 ~~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	200* ~~ND~~
1,1-dichloroethylene	ND	trichloroethylene	ND
1,2-trans-dichloroethylene	ND	vinyl chloride	ND
		xylenes	2200 ~~ND~~

1,1,2-trichloro-1,2,2,-trifluoroethane (freon) ~~ND~~ 200

ND = NOT DETECTED

* = BELOW DETECTION LIMIT

Note: Sample matrix prevented analysis at a lower detection limit