Betsy:
I think I got
it. Let me know
Tom

1986

6241/1
NREAD(L)
DEC 05 1986

From: Marine Corps Base, Camp Lejeune
To: [illegible]ization and Marketing Officer, Marine Corps Base, Camp Lejeune

Subj: LABORATORY ANALYSIS OF HAZARDOUS MATERIAL; RESULTS OF

Ref: (a) BO 6240.5

Encl: (1) Excerpts from JTC Environmental Consultants, Inc. Report No. 54 dated 28 June 1985
(2) Hazardous Waste Characteristic Analysis of Barrels at FC-251

1. Enclosure (1) and (2) show that the two barrels located at FC-251 area a corrosive liquid with toxic levels of metals. It is recommended that the barrels be disposed of as a D002 Hazardous Waste (HW) per the reference. The secondary HW numbers shown in enclosure (2) should also be shown on turn in documents and labels.

2. Point of contact is Ms. Elizabeth Betz, at extension 5977.

J. I. WOOTEN
By direction

Copy to:
2d FSSG (Facilities & Safety Office)
ACS FAC
Blind copy to:
Lab (NREAD)

1986

6241/1
NREAD(L)
DEC 0 5 1986

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Defense Reutilization and Marketing Officer, Marine Corps Base, Camp Lejeune

Subj: LABORATORY ANALYSIS OF HAZARDOUS MATERIAL; RESULTS OF

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J. I. WOOTEN
By direction

Copy to:
2d FSSG (Facilities & Safety Office)
AC/S FAC
Blind copy to:
Lab (NREAD)

EXCERPTS FROM JTC ENVIRONMENTAL CONSULTANTS, INC.
REPORT NO. 54, DATED 28 JUNE 1985

COMPILED BY ELIZABETH A. BETZ
7 AUGUST 1985

Please note the following:

a. Navy sample ID #27H and 27I are two 55-gallon drums at Bldg 251. The barrels were labelled with H and I when they were sampled.

(ENCLOSURE 1)

JTC Environmental Consultants, Inc.

Date 6-28-85 Report No. 54 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85-254 Table 1 Date of Sample Receipt 3/28/85 & 5/23/85

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		pH (Corrosivity)	Flashpoint °F	Reactivity Cyanide ppm	Reactivity Sulfide ppm	PCB µg/g			
3A [redacted] HP100	12-0920	7.18	< 85	0.9	< 1	< 1			
3B Bldg HP100	12-0921	6.55	< 85	< 1.0	< 1	< 1			
7H Bldg 251	12-0922	1.52	> 200	0.02	< 0.1	< 1			
7I Bldg 251	12-0923	< 1.0	> 200	0.03	< 0.1	< 5			
8J Landfill	composite 12-0924	6.32	> 200	< 0.10	1.0	< 5			
8K Landfill	composite 12-0925								
8L Landfill	composite 12-0926								
29 Bldg TP457	12-0927	< 1.0	153	< 0.05	< 0.1	< 1			
30 Bldg TP457	12-0928	4.89	< 85	< 0.05	< 0.2	< 10			
31 Bldg TP457	12-0929	5.25	< 85	< 0.05	< 0.5	< 10			
20 Bldg TP451	12-0930	9.56	< 85	< 1.0	< 0.5	< 10			
2P [redacted] TP451	12-0931	6.85	< 85	6.2	< 1	0.05 µg/ml			
2Q Bldg TP451	12-0932	6.91	< 85	< 1.0	< 0.5	< 0.1 µg/ml			

JTC Environmental Consultants, Inc.

Date 6-28-85 Report No. 54 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85-254 Table 5 Date of Sample Receipt 3/28/85 & 5/23/85

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		As	Ba	Cd	Cr	Pb	Hg	Se	Ag
3A Bldg HP100	12-0920	<1.0 mg/kg	<20 mg/kg	22.6 mg/kg	1.6 mg/kg	148 mg/kg	0.18 mg/kg	1.5 mg/kg	<1.0
3B Bldg HP100	12-0921	<1.0 mg/kg	<20 mg/kg	4.8 mg/kg	1.4 mg/kg	0.8 mg/kg	<0.10 mg/kg	2.2 mg/kg	<1.0
H Bldg 251	12-0922	<50 µg/L	1170 µg/L	2440 µg/L	65 µg/L	9850 µg/L	<1.0 µg/L	141 µg/L	<50
I Bldg 251	12-0923	290 µg/L	<1000 µg/L	680 µg/L	13,100 µg/L	3,120 µg/L	<1.0 µg/L	1960 µg/L	<50
8J Landfill	12-0924	2.3 mg/kg	<20 mg/kg	<0.50 mg/kg	2.3 mg/kg	4.5 mg/kg	<0.10 mg/kg	<0.40 mg/kg	<1.0
8K Landfill	12-0925								
8L Landfill	12-0926								
9 Bldg TP457	12-0927	*	*	*	*	*	*	*	*
0 Bldg TP457	12-0928	<50 µg/L	7800 µg/L	<25 µg/L	<50 µg/L	62.5 µg/L	22 µg/L	<20 µg/L	<50
1 Bldg TP457	12-0929	<50 µg/L	3130 µg/L	<25 µg/L	185 µg/L	21 µg/L	<1.0 µg/L	<20 µg/L	<50
20 Bldg TP451	12-0930	+	+	+	+	+	1925	+	+
2P Bldg TP451	12-0931	<50 µg/L	1295 µg/L	<25 µg/L	63,600 µg/L	6250 µg/L	3.7 µg/L	<20 µg/L	<50
Bldg TP451	12-0932	<50 µg/L	1535 µg/L	130 µg/L	93,900 µg/L	40,200 µg/L	7.9 µg/L	<20 µg/L	<50

* sample depleted

+ Sample requires redigestion prior to completion of analysis

CHARACTERISTICS	SAMPLE #27H	SAMPLE #27I	SAMPLE #86-	SAMPLE #86-0	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-	SAMPLE #86-
Corrosivity: pH	Corrosive 1.52	Corrosive <1.0						
Ignitability: Flash Point (140°F)	>200°F	>200°F						
Reactivity	mg/L	mg/L						
Cyanide (250mg /kg)	0.02	0.03						
Sulfide (500mg /kg)	<0.1	<0.1						
Toxcity-Limits	mg/L	mg/L						
As (5 ppm)	<0.05	0.290						
Ba (100 ppm)	1.17	<1.0						
Cd (1 ppm)	2.44	0.68						
Cr (5 ppm)	0.065	13.1						
Pb (5 ppm)	9.85	3.12						
Hg (0.2 ppm)	<0.001	<0.001						
Se (1.0 ppm)	0.141	1.96						
Ag (5 ppm)	<0.05	<0.05						
PCB mg/9	<1	<5						
Total Organic Halogen %	NOT TESTED →							
Recommended EPA Hazardous Waste ID#	D002	D002						
Comments: Secondary EPA Hazardous Waste ID #'s which should be shown	D006 D008	D007 D010						

Prepared by: Elizabeth Betz

Date: 21 Nov 86

ENCLOSURE (2)

T- 6241/1

OPNAV 5216/14 (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

6240
NREAD

DATE: 24 Nov 86

FROM: Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune

TO: Base Maintenance Officer, Marine Corps Base, Camp Lejeune

SUBJ: ELECTROLYTE DRUM AT BLDG 1827

Encl: (1) Supvy Chemist memo 6241/1 NREAD(L) of 20 Nov 86

1. It is recommended the Utilities Branch proceed with neutralizing subject battery acid as addressed in enclosure (1).

Julian I Wooten

JULIAN I. WOOTEN

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

OPNAV 5216/14A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

6241/1
NREAD (L)

DATE: 20 Nov 86

FROM: Supervisory Chemist, Water Quality Control Laboratory, Environmental Branch, Natural Resources and Environmental Affairs Division

TO: Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune

Via: Supervisory Ecologist, Environmental Branch, Natural Resources and Environmental Affairs Division

SUBJ: ELECTROLYTE DRUM AT BLDG 1827

1. On 20 November 1986, Manual Martin and I met Cpl Micheals at Bldg 1827 to look at the electrolyte drum in question. Across approximately half the surface of the liquid in the drum was a rubbery scum. The scum is no more than one-half inch thick and appears relatively inert. Under scum, the liquid is crystal clear with a slight tint of green.

2. Cpl Micheals, of 2nd Supply Bn, 2dFSSG, stated that he new there was battery acid, approximately 2-3 gallons of anti-freeze and possibly rain water in the drum.

3. The liquid has a pH of 1.5, confirming the presence of acid. I recommend the liquid be treated as battery acid and be neutralized by Utilities and then poured into an oil and water separator. What portion of the scum comes loose during the neutralizing will stay in the oil portion of the oil and water separator. I also recommend the empty drum be turned in to DRMO.

ELIZABETH A. BETZ

Copy to:
Supvy Ecologist

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

6241/1
NREAD(L)
20 Nov 1986

From: Supervisory Chemist, Water Quality Control Laboratory, Environmental Branch, Natural Resources and Environmental Affairs Division

To: Direcotr, Natural Resources and Environmental Affairs Division

Via: Supervisory Ecologist, Environmental Branch, Natural Resources and Environmental Affairs Division.

Subj: ELECTROLYTE DRUM AT BLDG 1827

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Elizabeth A. Betz

Copy to:
Supy Ecologist

2d FSSG

2nd Supply Bn

Bldg 1827

Electrolite Drum

with Cont

1797-2020

C/L MICHELS

FC-263

2-3 GAL

ANTIFREEZE, RAIN WATER

BLDG 1827

EPA

9/29/86

8:30

8:30

BSSG-6

2ND SUPPLY BN

ON LEFT

2ND ON RIGHT.

BARREL BETWEEN

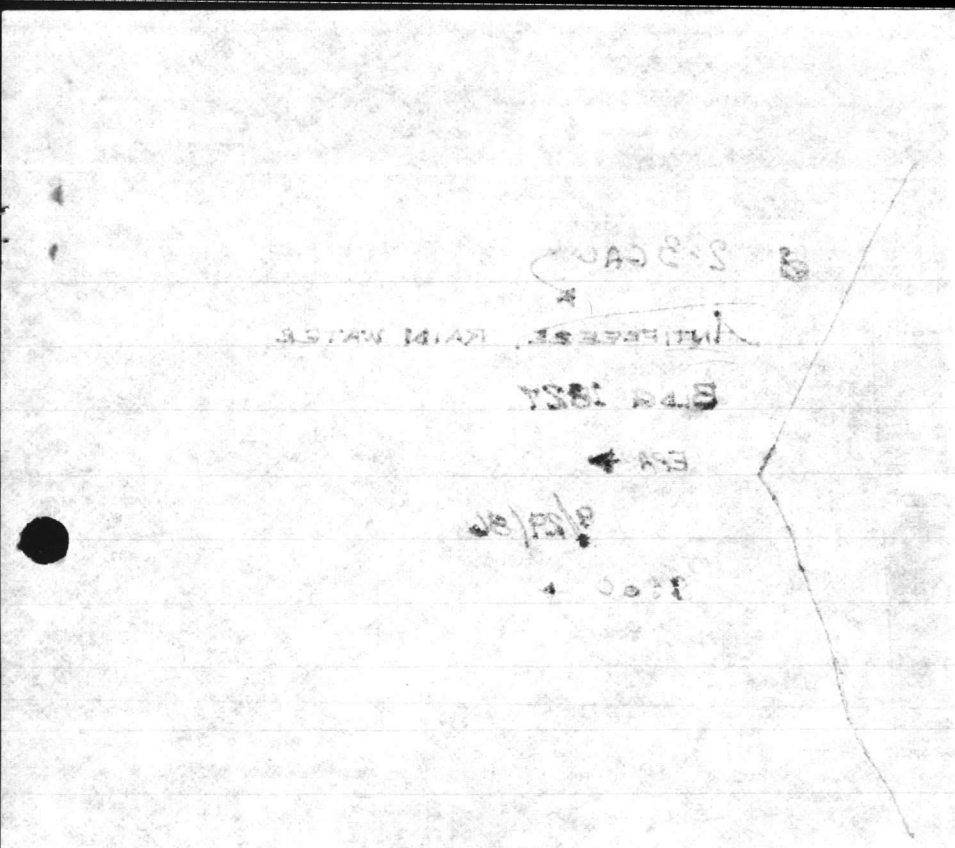
2ND + 3TH

LOOKED AT ON 20 NOV 86

CRYSTAL CLEAR

pH = 1.5

THIN LAYER OF SCUM



2-3 GAL

ANTIFREEZE RAIN WATER

BLDG 1827

EPA

9/29/86

8:30

8:30

BSSG-6

2ND SUPPLY BN

ON LEFT

2ND ON RIGHT.

BARREL BETWEEN

2ND + 3TH

LOOKED AT ON 20 NOV 86

CRYSTAL CLEAR

pH = 1.5

THIN LAYER OF SCUM

PER PHONCON WITH WO H.J. CLAY ON
17 FEBRUARY 1987 ALL 22 BARRELS
HAD BEEN IDENTIFIED AND DISPOSED
OF.
NO ANALYSIS REQUIRED

6241/1
NREAD(L)
18 Nov 1986

Control Laboratory,
urces and Environmental

vironmental Affairs

Analysis

) of 23 Oct 1986

of 22 barrels located
; been able to get out
and look at the barrels.

2. If the usual parameters are run, Corrosivity, Ignitibility, Reactivity and E. P. Toxicity for metals, at approximately $600 per sample, the 22 barrels would cost $13,200.

3. Before the samples can be taken, arrangements will need to be made for analysis. Previously, we have sent the samples to LANTDIV's contract lab. However, this year will probably have to have prior permission and forward funds ahead of time. The other choice is to contract our own laboratory but this will take time for bids.

4. The estimated $13,200 for 2nd FSSG's barrels and the estimated $10,800 for the MCAS-NR's barrels is based on $600 per sample. If the 40 barrels are arranged for together we can probably get a discount on the unit price. Since we already have 40 barrels and there will probably be more to come, if we have the time, it might be a good idea to get our own contract to cover hazardous waste monitoring.

Elizabeth A. Betz

6241/1
NREAD(L)
18 Nov 1986

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

Subj: 2d Supply Battalion's Request for Analysis

Ref: (a) 2nd FSSG SER 4/ZA6140 ltr 5100 of 23 Oct 1986

1. The reference requests identification of 22 barrels located at the flammable storage area. I have not been able to get out and look at the barrels.

2. If the usual parameters are run, Corrosivity, Ignitibility, Reactivity and E. P. Toxicity for metals, at approximately $600 per sample, the 22 barrels would cost $13,200.

3. Before the samples can be taken, arrangements will need to be made for analysis. Previously, we have sent the samples to LANTDIV's contract lab. However, this year will probably have to have prior permission and forward funds ahead of time. The other choice is to contract our own laboratory but this will take time for bids.

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Elizabeth A. Betz

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

31 Oct 86
Date

From: Director
To: E Britz
Subj: Haz Mat I.D. Request from 2D Supply BN.

Please take attached for action. Advise if you are unable to initiate action next week.

V/R
Jarlson

UNITED STATES MARINE CORPS
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542-5703

In reply refer to:
5100
SER 4/ZA6140
23 Oct 1986

From: Commanding Officer, 2d Supply Battalion
To: Commanding General, Marine Corps Base (Attn: Director NREAD)

Subj: IDENTIFICATION OF HAZARDOUS MATERIAL

Ref: (a) MCO 5100.25
(b) CG 2d FSSG ltr 48/PWM/kty 6240 of 7 Aug 1980

1. The references require labelling of hazardous materials held in stock, for inventory and disposal purposes.

2. Presently, this command maintains twenty two (22) 55 gallon containers of unidentified substances located at the flammable storage area.

3. Weathering conditions have rendered most exterior markings unreadable, however the following items were identified:

a. Automatic transmission fluid
b. Lube, oil gear
c. 140 solvent
d. cleaning solvent

4. It is requested that these materials be identified to enable proper disposal/recontainerization.

5. Point of contact is WO H.J. CLAY at extensions 3405/3418.

U. L. MORTON
By direction

UNITED STATES MARINE CORPS
2d Supply Battalion
2d Force Service Support Group (REIN)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542-5703

5100
SER AV/10B149
23 Oct 1358

From: Commanding Officer, 2d Supply Battalion
To: Commanding General, Marine Corps Base (Attn: Director
NREAD)

Subj: IDENTIFICATION OF HAZARDOUS MATERIAL

Ref: (a) MCO 5100.19E
(b) OP 2d FSSG 11m AOVPUM/Rty 8240 of 7 Aug 1358

1. The references require labeling of hazardous materials held in stock, for inventory and disposal purposes.

2. Presently, this command maintains twenty two (22) 55 gallon containers of unidentified substances located at the flammable storage area.

3. Weathering conditions have rendered most exterior markings unreadable, however the following items were identified:

a. Rotomatic transmission fluid
b. Lube, oil gear
c. 140 solvent
d. cleaning solvent

4. It is requested that these materials be identified to enable proper disposal/reconstainerization.

5. Point of contact is WO H.L. CLAY at extensions 3405/3410.

U. L. MURPHY
By direction

6241/1
NREAD
28 Jul 86

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Defense Reutilization and Marketing Officer, Camp Lejeune, North Carolina

Subj: LABORATORY ANALYSIS OF HAZARDOUS MATERIAL; RESULTS OF

Ref: (a) BO 6240.5

Encl: (1) JTC Environmental Consultants, Inc. Report No. 312 dtd 1 July 1986
(2) Hazardous Waste Characteristic Analysis of the Barrel at 2d FSSG's Flammable Storage Facility

1. Enclosures (1) and (2) show that the barrel located at 2dFSSG's Flammable Storage Facility is a flammable liquid with toxic levels of lead. It is recommended that the barrel be disposed of as a D001 hazardous waste per the reference.

JULIAN I. WOOTEN
By direction

Copy to:
2dFSSG HMDC

REPORT # 312

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT # 86-371

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 1, 1986

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 6-9-86 Turnaround: routine

Date: 7-1-86 Report No. 312 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-371 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Corrosivity pH	Reactivity Cyanide	Reactivity Sulfide mg/L	Flashpoint °C	TOX %			
MCBCL 86-27 barrel at steam plant	12-2870	10.0	<10 mg/L	488	>100	0.06			
MCBCL 86-28 barrel at flammable locker (2d FSSG)	12-2871	9.7	1.93 mg/L	196	25 flame occurred at 82	0.03			

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 6-9-86 Turnaround: routine

Date: 7-1-86 Report No. 312 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-371 Table 2

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
MCBCL 86-27 barrel at steam plant	12-2870	<0.5	<10	<0.25	<0.5	<0.25	<0.1	<0.25	<0.5
MCBCL 86-28 barrel at flammable locker (2d FSSG)	12-2871	<0.5	<10	<0.25	3.6	17.9	<0.1	<0.25	<0.5

CHARACTERISTICS	SAMPLE #86-28	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-0	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-	SAMPLE #86-
Corrosivity: pH	9.7							
Ignitability: Flash Point (140°F)	25°C FLAMMABLE							
Reactivity Cyanide (250mg /kg)	1.93 mg/L							
Sulfide (500mg /kg)	196 mg/L							
Toxcity-Limits								
As (5 ppm)	<0.5							
Ba (100 ppm)	<10							
Cd (1 ppm)	<0.25							
Cr (5 ppm)	3.6							
Pb (5 ppm)	17.9 TOXIC							
Hg (0.2 ppm)	<0.1							
Se (1.0 ppm)	<0.25							
Ag (5 ppm)	<0.5							
PCB mg/9								
Total Organic Halogen %	0.03							
Recommended EPA Hazardous Waste ID#	D001							
Comments: Secondary EPA Hazardous Waste ID #'s which should be shown	D008							

Prepared by: Elizabeth Betz

Date: 22 July 198

ENCLOSURE 12

6241/1
NREAD
28 Jul 86

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

Subj: BARREL AT BUILDING 1700, STEAM PLANT

Encl: (1) JTC Environmental Consultants, Inc. Report No. 312 dtd 1 July 1986
(2) Hazardous Waste Characteristic Analysis of the Barrel at Steam Plant, Bldg 1700

1. Enclosures (1) and (2) show that the barrel located at the main Steam Plant, Building 1700, does not exhibit hazardous waste characteristics. Based on enclosure (1), disposal through the sanitary sewer is recommended.

JULIAN I. WOOTEN

REPORT # 312

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT # 86-371

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 1, 1986

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

ENCLOSURE (1)

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 6-9-86 Turnaround: routine

Date: 7-1-86 Report No. 312 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-371 Table 1

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MCBCL 86-28 barrel at flammable locker (2d FSSG)	12-2871	9.7	1.93 mg/L	196	25 flame occurred at 82	0.03			

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 6-9-86 Turnaround: routine

Date: 7-1-86 Report No. 312 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-371 Table 2

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
MCBCL 86-27 barrel at steam plant	12-2870	<0.5	<10	<0.25	<0.5	<0.25	<0.1	<0.25	<0.5
MCBCL 86-28 barrel at flammable locker (2d FSSG)	12-2871	<0.5	<10	<0.25	3.6	17.9	<0.1	<0.25	<0.5

CHARACTERISTICS	SAMPLE #86-21	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-0	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-	SAMPLE #86-
Corrosivity: pH	10.0 SLIGHTLY BASIC							
Ignitability: Flash Point (140°F)	>100°C							
Reactivity Cyanide (250mg /kg)	<10 ug/L							
Sulfide (500mg /kg)	483 mg/L							
Toxcity-Limits								
As (5 ppm)	<0.5							
Ba (100 ppm)	<10							
Cd (1 ppm)	<0.25							
Cr (5 ppm)	<0.5							
Pb (5 ppm)	<0.25							
Hg (0.2 ppm)	<0.1							
Se (1.0 ppm)	<0.25							
Ag (5 ppm)	<0.5							
PCB mg/9								
Total Organic Halogen %	0.06 %							
Recommended EPA Hazardous Waste ID#	NONE							
Comments: Secondary EPA Hazardous Waste ID #'s which should be shown	NONE							

Prepared by: Elizabeth Betz

Date: 22 July 19

ENCLOSURE 1

es

Aaalysis Request

Samples: #86-27 From 55 gallon drum at main steam plant

#86-28 From 55 gallon drum at @nd FSSG Flammable Lockeer

Parameters Requested: Hazardous Waste Characteristics
Ignitibilty
Corrosivity
Reactivity
Toxicity (EP Metals Only)
Total Organic Halogens

Samples Taken By: Water Quality Control Laboratory, NREAD, MCB, Camp Lejeune, North Carolina

Turnaround: Two Weeks

Cover Under: Navy Contract

Analysis Request

Samples: #86-27 From 55 gallon drum @ main steam plant

#86-28 From 55 gallon drum @ 2nd FSSG's Flammable Locker

Parameters Requested: Hazardous Waste Characteristics

Ignitibilty

Corrosivity

Reactivity

Toxicity (EP Metals Only)

Total Halogens

Samples Taken By: Water Quality Control Laboratory, NREAD, MCB Camp Lejeune, North Carolina

Turnaround: Two weeks

Cover Under: Navy Contract

T-6241/1

6240
NREAD
25 Jun 86

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

Subj: PCB TRANSFORMER AT LEJEUNE HIGH SCHOOL

1. On 20 June 1986, the subject transformer was discovered to have a small leak. An estimated 2-4 ounces of liquid coolant had seeped from the transformer. The seepage was attributed to heat buildup in the coolant. All of the liquids were adhered to the surface of the transformer and a cork pad it rested on.

2. The Base Fire Protection Division (BFPD) discovered the leak during routine followup on notifications by Base Maintenance Division (BMD) of the presence of the PCB transformers at the high school. Personnel from the Electric Shop, BMD, disconnected the power source, cleaned up the PCB and patched the seals. They also corrected a problem with incoming lines which was causing a minor electric arc. The electric arc was not believed to be related to the PCB problem. An absence of relatively destructive order raised some question as to whether the coolant contained PCB.

3. The problem was well handled by both BMD and BFPD. The spill was not large enough to require reports to regulatory agencies. BMD and NREAD personnel will be sampling transformers to determine actual PCB content. BMD is checking transformer to ensure patchwork was successful.

JULIAN I. WOOTEN

6241/1
NREAD
JUN 2 4 1986

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

Subj: DISPOSAL OF BARREL AT BUILDING A-2

Encl: (1) CO, 2d AAVDB ltr 5000 S-4/MAINT of 24 Oct 85
(2) JTC Environmental Consultants, Inc. Report No. 252 of 23 Apr 1986
(3) Hazardous Waste Characteristic Analysis of the Barrel at AMTRACS datd 19 Jun 1986

1. Enclosure (1) advised that the 2d Assault Amphibian Battalion (2d AAVBN) has one 55-gallon drum containing used electrolyte, sodium bicarbonate and an unknown substance needing analysis and disposal. Enclosure (2) is the analysis, performed by JTC Environmental Consultants (Sample #86-01). Enclosure (3) summarizes the applicable data in enclosure (2).

2. The unknown substance was originally suspected to be an organic solvent, however, none were detected. Based on the analysis and appearance, the barrel appears to be battery acid that has been contaminated with oil.

3. It is recommended this barrel be neutralized and discharged into an oil and water separator connected to the sanitary sewer. By copy of this letter, 2dAAVBN is advised to contact the Utilities Director, Base Maintenance Division, for assistance with diposal of this barrel.

4. NREAD point of contact in this matter is Ms. Elizabeth Betz, x5977.

JULIAN I. WOOTEN

Copy to:
2d AAVBN
2dMARDIV HMDC

BLIND COPY TO:
WQCL

AMTRAC's
BARREL

6241/1
NREAD
JUN 2 4 1986

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

Subj: DISPOSAL OF BARREL AT BUILDING A-2

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JULIAN I. WOOTEN

Copy to:
2d AAVBN
2dMARDIV HMDC

BLIND COPY TO:
WQCL

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

ENCLOSURE (1)

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

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

UNITED STATES MARINE CORPS
2d Marine Division, Fleet Marine Force
Camp Lejeune, North Carolina 28542-5500

IN REPLY REFER TO
4000
G-4 ENGR
6 Nov 85

FIRST ENDORSEMENT on CO, 2d AAVBN ltr 5000 S-4/Maint of 24 Oct 85

From: Commanding General, 2d Marine Division, FMF
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina (Director NREAD)

Subj: ANALYSIS AND DISPOSAL OF UNKNOWN SUBSTANCE, REQUEST FOR

Ref: (b) PHONCON btwn Mr. Sharpe (MCB NREAD) and MgySgt Kaup (Div Engr Chf) on 25 Oct 85

1. Forwarded for action as discussed during reference (b).

2. Points of contact at this headquarters are LtCol Marapoti or MgySgt Kaup, Division Engineers, extension 2755/2302.

D. J. LAVOY
By direction

Copy to:
CO, 2d AAVBN (S-4)

ENCLOSURE (2)

UNITED STATES MARINE CORPS
2d Assault Amphibian Battalion
2d Marine Division, Fleet Marine Force
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:
5000
S-4/Maint
24 OCT 1985

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542-5525 (NREAD)
via: Commanding General, 2d Marine Division, Camp Lejeune, North Carolina 28542-5524 (Div EngrO) 2302-2755

Subj: ANALYSIS AND DISPOSAL OF UNKNOWN SUBSTANCE, REQUEST OF

Ref: (a) Conversation between Capt. TEDESCHI Bn MaintO and Base Maintenance Disposal Team of 15 Oct 85

1. In accordance with reference (a) it is requested that an on site team conduct an analysis and dispose of one (1) 55 gallon drum containing approximately 50 gallons of used electrolyte (Battery Acid), Sodium Bicaronate ACS, and a reported unknown substance.

2. Point of contact is Captain TEDESCHI, Battalion Maintenance Officer, 2d Assault Amphibian Battalion ext. 7436/7586.

J. T. PAPARONE
By direction

Copy to:
Bn MaintO

UNITED STATES MARINE CORPS
2d Assault Amphibian Battalion
2d Marine Division, Fleet Marine Force
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:
5000
S-4/Maint
24 OCT 1985

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542-5525 (NREAD)
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J. T. PAPARONE
By direction

Copy to:
Bn MaintO

HAZARDOUS WASTES CHARACTERISTIC ANALYSIS OF THE BARREL AT AMTRACS

CHARACTERISTICS	SAMPLE #86-01	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-0	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-	SAMPLE #86-
Corrosivity: pH	1.93 Corrosive							
Ignitability: Flash Point (140°F) or (60°c)	~ 70°c 158°F							
Reactivity Cyanide (250mg /kg)	< 0.5							
Sulfide (500mg /kg)	120 mg/l							
Toxcity-Limits								
As (5 ppm)	1							
Ba (100 ppm)	< 10							
Cd (1 ppm)	12							
Cr (5 ppm)	< 0.5							
Pb (5 ppm)	98							
Hg (0.2 ppm)	0.1							
Se (1.0 ppm)	0.35							
Ag (5 ppm)	0.5							
PCB mg/9								
Total Organic Halogen %	< 0.01							
Recommended EPA Hazardous Waste ID#	D002							
Comments: Secondary EPA Harardous Waste ID #'s which should be shown	D006 D008							

Prepared by: Elizabeth Betz

Date: 6/19/86

HAZARDOUS WASTES CHARACTERISTIC ANALYSIS

OF THE BARREL AT AMTRACS

PREPARED BY: E. A. BETZ

DATE: 19 JUNE 1986

CHARACTERISTIC	SAMPLE # 86-01	SAMPLE #	SAMPLE #	SAMPLE #
CORROSIVITY:				
pH	1.93 CORROSIVE			
IGNITABILITY	> 70°C 158°F			
FLASH POINT (60°C (140°F))				
REACTIVITY				
CYANIDE (250 mg/kg)	< 0.5			
SULFIDE (500 mg/kg)	120 mg/L			
TOXICITY (LIMITS)				
As (5 ppm)	1			
Ba (100 ppm)	< 10			
Cd (1 ppm)	12			
Cr (5 ppm)	< 0.5			
Pb (5 ppm)	98			
Hg (0.2 ppm)	< 0.1			
Se (1.0 ppm)	0.35			
Ag (5 ppm)	< 0.5			
PCB				
TOTAL ORGANIC HALOGEN %	< 0.01			
RECOMMENDED EPA HAZARDOUS WASTE ID #	D002			
COMMENTS: (OTHER EPA HAZARDOUS WASTE ID #)	D006 D008			

Dillo Dan DDS

UNITED STATES MARINE CORPS
2d Marine Division, Fleet Marine Force
Camp Lejeune, North Carolina 28542-5500

IN REPLY REFER TO
4000
G-4 ENGR
6 Nov 85

FIRST ENDORSEMENT on CO, 2d AAVBN ltr 5000 S-4/Maint of 24 Oct 85

From: Commanding General, 2d Marine Division, FMF
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina (Director NREAD)

Subj: ANALYSIS AND DISPOSAL OF UNKNOWN SUBSTANCE, REQUEST FOR

Ref: (b) PHONCON btwn Mr. Sharpe (MCB NREAD) and MgySgt Kaup (Div Engr Chf) on 25 Oct 85

1. Forwarded for action as discussed during reference (b).

2. Points of contact at this headquarters are LtCol Marapoti or MgySgt Kaup, Division Engineers, extension 2755/2302.

D. J. LAVOY
By direction

Copy to:
CO, 2d AAVBN (S-4)

UNITED STATES MARINE CORPS
2d Assault Amphibian Battalion
2d Marine Division, Fleet Marine Force
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:
5000
S-4/Maint
24 OCT 1985

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542-5525 (NREAD)
Via: Commanding General, 2d Marine Division, Camp Lejeune, North Carolina 28542-5524 (Div EngrO) 2302-2755

Subj: ANALYSIS AND DISPOSAL OF UNKNOWN SUBSTANCE, REQUEST OF

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2. Point of contact is Captain TEDESCHI, Battalion Maintenance Officer, 2d Assault Amphibian Battalion ext. 7436/7586.

J. T. PAPARONE
By direction

Copy to:
Bn MaintO

UNITED STATES MARINE CORPS
2d Assault Amphibian Battalion
2d Marine Division, Fleet Marine Force
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:
5000
S-4/Maint
24 OCT 1985

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J. T. PAPARONE
By direction

Copy to:
Bn MaintO

6241/1
NREAD(L)
DPS

DATE: 19 JUNE 1986

FROM: SUPERVISORY CHEMIST, WATER QUALITY CONTROL LABORATORY, ENVIRONMENTAL BRANCH, NREAD

TO: SUPERVISORY ECOLOGIST, ENVIRONMENTAL BRANCH, NREAD

SUBJ: ANALYSIS OF UNKNOWN SUBSTANCE AT AMTRACS.

REF: (a) CO, 2d AAVBN LTR 5000 S-4/MAINT OF 24 OCT 85

ENCL: (1) JTC ENVIRONMENTAL CONSULTANTS, INC. REPORT # 252 DATED 23 APRIL 1986

(2) HAZARDOUS WASTE CHARACTERISTIC ANALYSIS OF THE BARREL AT AMTRACS DATED 19 JUNE 1986

(3) DRAFT LETTER TO ~~DRMO~~ BMO

1. ENCLOSURE (1) AND (2) SHOW THAT THE BARREL LOCATED IN BLDG A-2 AT COURTHOUSE BAY, SAMPLE # 86-01, IS INDEED A CORROSIVE WITH TOXIC LEVELS OF CADMIUM AND LEAD. IT HAD NO DETECTABLE LEVELS OF CHLORINATED ORGANIC SOLVENTS. BASED ON THE ANALYSIS AND APPEARANCE I WOULD SAY THE BARREL WAS INDEED BATTERY ACID THAT HAD BEEN CONTAMINANTED ~~OIL~~. WITH OIL

2. THE BASE IS PRESENTLY NEUTRALIZING BATTERY ACID AND DISCHARGING IT INTO THE SANITARY SEWER. ANALYSIS OF ~~RE~~ THE BATTERY ACID WOULD PROBABLY SHOW SIMILAR LEVELS OF CADIUM AND LEAD TO THAT FOUND IN THE BARREL AT AMTRACS. THEREFORE I WOULD RECOMMEND THAT THE BARREL AT AMTRACS BE NEUTRALIZED

AND DISCHARGED INTO AN OIL AND WATER SEPARATOR CONNECTED TO THE SANITARY SEWER.

3. BASE MAINTENANCE MAY HAVE TO MAKE SOME SLIGHT ALTERATIONS TO THEIR NORMAL NEUTRALIZING ~~PROB~~ PROCEDURE TO ~~ACCOMADATE~~ ACCOMMODATE THE OILY NATURE OF THIS ACID. IT MAY CLOG ~~THEIR~~ ~~@~~ ~~SENSETIVE~~ THE PUMP MRS. SMITH USES. ITS OILY NATURE ALSO MAKES IT HARD TO ~~READ A pH.~~ OBTAIN AN ACCURATE pH. HOWEVER THESE PROBLEMS ARE SMALL WHEN ONE CONSIDERS THE EXPENSE INVOLVED IN DISPOSING ~~OF~~ THE BARREL ~~THREW~~ THROUGH A HAZARDOUS WASTE CONTRACT.

Elizabeth A Betz

6241/1

23 JUNE 86

MEMO TO THE RECORD

ON THE 23RD OF JUNE 86, @ 0815, I CONTACTED MGYSGT KAUP, DIVISION HMDC AND INFORMED HIM OF THE CONTENTS OF THE BARREL @ 6TH MARINES BLDG 1206. THE BARREL WAS SAMPLED ON 6MAR86 AND THE LAB RESULTS SHOWED THAT THE CONTENTS WERE A MIXTURE OF OIL, WATER + ELECTROLYTE AND THE CONTENTS DID NOT SHOW HW CHARACTERISTICS. I ASKED TOP KAUP TO PASS ON THE INFORMATION TO CAPT. FITZGERALD @ 6TH MAR. I ARRANGED WITH ROADS + GROUNDS (MR. DAVIDSON) FOR THE CONTENTS TO BE PICKED UP WITH THE OIL PICKUP TRUCK.

DDB

DANNY BECKER

DANNY BECKER

23JUNE86

6TH MAR
BARREL
@
1206

6241/1

23 June 86

MEMO TO THE RECORD

ON THE 23rd OF JUNE 86, @ 0815, I CONTACTED MGYSGT KAUP, DIVISION HMDC AND INFORMED HIM OF THE CONTENTS OF THE BARREL @ 6th MARINES Bldg 1206. THE BARREL WAS SAMPLED ON 6MAR86 AND THE LAB RESULTS SHOWED THAT THE CONTENTS WERE A MIXTURE OF oil, WATER + ELECTROLYTE AND THE CONTENTS DID NOT SHOW HW CHARACTERISTICS. I ASKED TOP KAUP TO PASS ON THE INFORMATION TO CAPT. FITZGERALD @ 6th MAR. I ARRANGED WITH ROADS + GROUNDS (MR. DAVIDSON) FOR THE CONTENTS TO BE PICKED UP WITH THE oil PICKUP TRUCK.

DDB

Danny Becker

DANNY BECKER

23 JUNE 86

TO DANNY B. Please Advise these people To have and Pump out barrel in waste oil. See Betz's letter. Return to Betz after complete. Notify HMDC memo to record DP 20 June 86

6241/1
NREAD(L)

DATE: 20 JUNE 1986

FROM: SUPERVISORY CHEMIST, WATER QUALITY CONTROL LABORATORY, ENVIRONMENTAL BRANCH, NREAD

TO: SUPERVISORY ECOLOGIST, ENVIRONMENTAL BRANCH, NREAD

SUBJ: ANALYSIS OF BARREL AT BLDG 1206

Encl.
~~REF: (a)~~ CO, 6TH MAR REGT LTR 6240 S-4 OF 9 DEC 85

ENCL: (1) JTC ENVIRONMENTAL CONSULTANTS, INC REPORT #252 DATED 23 APRIL 1986

(2) HAZARDOUS WASTE CHARACTERISTIC ANALYSIS OF BARREL AT BLDG 1206 DATED 19 JUNE 1986

~~(3) DRAFT LETTER TO~~

1. ENCLOSURE (1) AND (2) SHOW THAT THE BARREL LOCATED AT BLDG 1206 IS A MIXTURE OF OIL, WATER AND ELECTROLYTE. THE BARREL HAS TWO LAYERS, AN OILY ~~ONE~~ AND ~~AN~~ A WATER ~~ONE~~ ONE. AS A WHOLE THE BARREL IS ~~ACIDIC~~ BUT NOT SUFFICIENT ENOUGH TO BE TREATED AS A CORROSIVE. ITS FLASH POINT IS ABOVE 212°F THEREFORE IT IS NOT IGNITABLE. ITS LEVELS OF CYANIDE ~~AND~~ SULFIDE ARE NOT HIGH ENOUGH TO BE CONSIDERED REACTIVE. ~~THE OILY LAYER HAS NO TOXIC LEVELS OF METALS~~. THE TOTAL ORGANIC ~~HALOG~~ HALOGENS PRESENT WAS ONLY 0.04%, WHICH IS APPROXIMATELY 400ppm, AND THEREFORE NOT ABOVE THE HALOGEN LIMIT FOR FUEL. THE OILY LAYER HAS NO TOXIC LEVELS OF METALS. ~~HOWEVER~~ THE WATER LAYER ~~HAS~~ IS TOXIC FOR CADMIUM (2.08 mg/L). ~~THEREFORE~~

BUT AT A LOWER LEVEL THEN THAT FOUND ~~AT~~ IN THE BARREL AT AMTRACS.

2. THE BARREL COULD BE HANDLED ONE OF TWO WAYS BASED ON THE PERCENTAGE OF WATER. THE BARREL COULD BE HANDLED AS AN OFF SPECIFICATION USED OIL FUEL AND THEREFORE ADD TO THE WASTE OIL. OR IF THE OIL LAYER IS VERY SMALL IT COULD POSSIBLY BE NEUTRALIZED AND DISPOSED THROUGH AN OIL AND WATER SEPARATOR. THE TOTAL ORGANIC HALOGENS IN THE BARREL IF IT WAS DISPOSED IN THE HADNOT POINT WASTEWATER SYSTEM WOULD BE DILUTED TO < 5 ppb.

3. HOWEVER, IF THE BASE IS SEGREGATING ITS WASTE OIL I WOULD HAVE TO RECOMMEND ~~DISPOSES~~ DISPOSING OF THIS BARREL INTO THE OFF-SPECIFICATION USED OIL TANK OR HAZARDOUS WASTE FUEL TANK. THE WATER CONTENT WOULD NOT BE NOTICED IF IT WERE MIXED WITH THE OIL FROM OIL AND WATER SEPARATORS.

Elizabeth A Betz

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	Flash point °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

HAZARDOUS WASTES CHARACTERISTIC ANALYSIS OF BARREL AT BLDG 1206

PREPARED BY: ELIZABETH A. BEE

DATE: 19 JUNE 1986

CHARACTERISTIC	SAMPLE # 86-03		SAMPLE #	SAMPLE #	SAMPLE #
CORROSIVITY: pH	3.58 ACIDIC				
IGNITABILITY FLASH POINT (140°F)	>100°C >212°F				
REACTIVITY					
CYANIDE (250 mg/kg)	1.4 mg/kg				
SULFIDE (500 mg/kg)	460 mg/L				
TOXICITY (LIMITS)	OIL LAYER	WATER LAYER TOXIC			
As (5 ppm)	<0.25	1.2			
Ba (100 ppm)	<10	<0.2			
Cd (1 ppm)	0.3	2.08			
Cr (5 ppm)	<0.5	1.69			
Pb (5 ppm)	<5	<0.1			
Hg (0.2 ppm)	<0.1	0.00029			
Se (1.0 ppm)	<0.25	<0.01			
Ag (5 ppm)	<0.5	<0.02			
PCB					
TOTAL ORGANIC HALOGEN %	0.04				
RECOMMENDED EPA HAZARDOUS WASTE ID #	D006				
COMMENTS:	THE OIL LAYER IS NOT TOXIC. ONLY THE WATER LAYER IS.				

DDS

UNITED STATES MARINE CORPS
2d Marine Division, Fleet Marine Force
Camp Lejeune, North Carolina 28542-5500

IN REPLY REFER TO
6240
G-4 ENGR
12 Dec 85

FIRST ENDORSEMENT on CO, 6th Mar Regt ltr 6240 S-4 of 9 Dec 85

From: Commanding General, 2d Marine Division, FMF
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina
(Attn: Director NREAD)

Subj: REQUEST FOR ANALYSIS OF CONTAMINATED ELECTROLYTE

1. Forwarded requesting action be taken on the request contained in the basic correspondence.

2. Points of contact at this headquarters are LtCol Marapoti or MGySgt Kaup, Division Engineers at extensions 2302/2755.

D. J. LAVOY
By direction

Copy to:
CO, 6th Mar Regt (S-4)

UNITED STATES MARINE CORPS
6th Marine Regiment
2d Marine Division, FMF
Camp Lejeune, North Carolina 28542-5507

IN REPLY REFER TO
6240
S-4
9 Dec 85

From: Commanding Officer, 6th Marine Regiment, 2d Marine Division, FMF
To: Commanding General, Marine Corps Bae, Camp Lejeune (Attn: G-4/Engr)
Via: Commanding General, 2d Marine Division, FMF (Attn: G-4/Engr)

Subj: REQUEST FOR ANALYSIS OF CONTAMINATED ELECTROLYTE

Ref: (a) Phoncon btwn Capt FITZGERALD (6thMar) and Mr Sharpe (NREAD) on 9 Dec 85
(b) Phoncon btwn Capt FITZGERALD (6thMar) and MGSgt KAUP (DivEngr) on 9 Dec 85

1. As instructed by the references, a request is made for an analysis of contaminated electrolyte.

2. It is suspected that the contaminated electrolyte contains an antifreeze solution and oil contaminants. The total quantity of fluid to be analyzed is approximately 30 gallons.

3. The subject electrolyte is located in building #1206.

4. Point of contact is Capt FITZGERALD/GySgt GODWIN, (6thMar) extension 3476.

R. J. Fitzgerald

R. J. FITZGERALD
By direction

6240
S-4
9 Dec 85

From: Commanding Officer, 6th Marine Regiment, 2d Marine Division, FMF
To: Commanding General, Marine Corps Bae, Camp Lejeune (Attn: G-4/Engr)
Via: Commanding General, 2d Marine Division, FMF (Attn: G-4/Engr)

Subj: REQUEST FOR ANALYSIS OF CONTAMINATED ELECTROLYTE

Ref: (a) Phoncon btwn Capt FITZGERALD (6thMar) and Mr Sharpe (NREAD) on 9 Dec 85
(b) Phoncon btwn Capt FITZGERALD (6thMar) and MGSgt KAUP (DivEngr) on 9 Dec 85

1. As instructed by the references, a request is made for an analysis of contaminated electrolyte.

2. It is suspected that the contaminated electrolyte contains an antifreeze solution and oil contaminants. The total quantity of fluid to be analyzed is approximately 30 gallons.

3. The subject electrolyte is located in building #1206.

4. Point of contact is Capt FITZGERALD/GySgt GODWIN, (6thMar) extension 3476.

R. J. FITZGERALD
By direction

6241/1

ANALYSIS REQUEST

Samplexs #86-01 From 55 gallon drum orginially believed to be battery acid. Possible oil and or solvent contamination.

#86002 From spill in 2nd Marine Division's Band instrument repair room. Tank contained "acid" for cleaning musical instruments

#86-03 From 55 gallon drum containing possibly electrolyte contaminanted with possibly paint and water.

Parameters Requested: Hazardous Waste Characteristics
Volatile Organic Chemicals
Methyl Ethyl Ketone

Cover Under: Navy Contract

Samples Taken by: Water Quality Control Laboratory, NREAD, Marine Corps Base, Camp Lejeune, NC

Turnaround: Two Weeks

6241/1
NREAD
18 Jun 86

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Defense Reutilization and Marketing Officer, Camp Lejeune, North Carolina

Subj: LABORATORY ANALYSIS OF HAZARDOUS MATERIAL; RESULTS OF

Encl: (1) JTC Environmental Consultants, Inc. Report No. 266 dtd 14 May 1986
(2) JTC Environmental Consultants, Inc. Report No. 266 addendum dtd 16 May 1986
(3) JTC Environmental Consultants, Inc. Report No. 266 addendum dtd 29 May 1986
(4) Hazardous Wastes Characteristic Analysis of Air Station Barrels dtd 18 June 1986

1. Enclosures (1), (2) and (3) provide dta on the eight drums stored at the Air Station's Hazardous Waste Storage Area. The drums were marked with the sample numbers at the time of collection.

2. Enclosure (4) summarizes the data in enclosures (1), (2) and (3) and also includes the EPA Hazardous Waste ID Number. Point of contact with this matter is Ms. Elizabeth Betz, extension 5977.

JULIAN I. WOOTEN
By direction

Copy to:
CO, MCAS NR

Writer/Typist E. Betz, T. Hardison
Date Typed 4/19/86
Word Processing Number 6241/1

OPNAV 5216/158 (Rev. 7-78)
SN 0107-LF-052-1691

A WINDOW ENVELOPE MAY BE USED
Formerly NAVEXOS 3789

detached from enclosures, unless otherwise indicated)

T-11337

FROM (Show telephone number in addition to ...)
Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk Va 23511-6287 AV 565-2935

DATE
5/22/86

SUBJECT
HW Analysis.

SERIAL OR FILE NO.

TO:
Commanding General
Marine Corps Base
Camp Lejeune NC.
ATTN Base Maintenance
Environmental Affairs Division
Mr. Bob Alephadey

REFERENCE

ENCLOSURE
JTC Lab Report #2

VIA:

ENDORSEMENT ON

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

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

REMARKS (Continue on reverse)

SIGNATURE & TITLE
Steve Allison Env. Prot Spec.

COPY TO:
115, 1145

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

☆U.S. Government Printing Office: 1982—505-106/8579 2-1

Partial Results

REPORT # 266

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT # 86-260

PREPARED FOR:

DEPARTMENT OF THE NAVY

ATLANTIC DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

NORFOLK, VA 23511

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

May 14, 1986

Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune - MCAS Date of Receipt: 4-9-86 Turnaround: routine

Date: 5-14-86 Report No. 266 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-260 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Corrosivity pH	Flashpoint °C	Reactivity Cyanide mg/Kg	Reactivity Sulfide mg/kg				
86-5	12-2444	8.6	~70	<1.25	0.31				
86-6	12-2445	8.5	>100	<1.25	<0.02				
86-7	12-2446	8.8	>100	<1.25	<0.02				
86-8	12-2447	8.7	>100	<1.25	<0.02				
86-9	12-2448	8.7	>100	<1.25	<0.02				
86-10	12-2449	6.8	~45	<1.25	<0.02				
86-11	12-2450	8.9	>100	<1.25	<0.02				
86-12	12-2451	7.9	28	<1.25	<0.02				

JTC Environmental Consultants, Inc.

Location: Camp Lejeune - MCAS Date of Receipt: 4-9-86 Turnaround: routine

Date: 5-14-86 Report No. 266 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-260 Table 2

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
86-5	12-2444	<0.5	<5	<0.12	9360	<0.12	<0.1	<0.25	<0.25
86-6	12-2445	<0.5	<5	<0.12	16,700	<0.12	<0.1	<0.25	<0.25
86-7	12-2446	<0.5	<5	<0.12	14,000	<0.12	<0.1	<0.25	<0.25
86-8	12-2447	<0.5	<5	<0.12	14,000	<0.12	<0.1	<0.25	<0.25
86-9	12-2448	<0.5	<5	<0.12	12,200	<0.12	<0.1	<0.25	<0.25
86-10	12-2449	<0.5	<5	0.68	6320	0.48	<0.1	<0.25	<0.25
86-11	12-2450	<0.5	<5	<0.12	7360	<0.12	<0.1	<0.25	<0.25
86-12	12-2451	<0.5	<5	5.3	2720	1.2	0.79	<0.25	<0.25

JTC Environmental Consultants, Inc.

Location: Camp Lejeune Date of Receipt: 4-9-86 Turnaround: routine

Date: 5-14-86 Report No. 266 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-260 Table 3

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		B.S.+W %	Sp. Gravity	Viscosity @ 100°C	TOX %				
86-16 Π Tank SΠ 61	12-2452	7.8	0.879 @ 21.6°C	3.1 cSt	0.13				
86-17 Π Tank SΠ 62	12-2453	16.5	0.887 @ 21.8°C	6.0 cSt	0.34				
86-18 Π Tank SΠ 63	12-2454	30.0	0.909 @ 22.1°C	6.8 cSt	0.15				
86-19 Π Tank SΠ 64	12-2455	15.0	0.891 @ 22.2°C	5.2 cSt	0.13				
86-20 Π Tank SΠ 65	12-2456	8.5	0.860 @ 22.3°C	0.9 cSt	0.18				

PCB's only

REPORT #266 Addendum

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT #86-260

PREPARED FOR:

DEPARTMENT OF THE NAVY

ATLANTIC DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

NORFOLK, VA 23511

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

MAY 16, 1986

Ann E. Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune - MCAS Date of Receipt: 4-9-86 Turnaround: routine

Date: 5-1-86 Report No. 266 Addendum to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-260 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		PCB ug/g							
86-5	12-2444	<5							
86-6	12-2445	<5							
86-7	12-2446	<5							
86-8	12-2447	<5							
86-9	12-2448	<5							
86-10	12-2449	<5							
86-11	12-2450	<5							
86-12	12-2451	<5							

30 JUN REC'D

TOX only

REPORT #266 Addendum A

LABORATORY ANALYSIS ON

NAVAL SAMPLES

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

JTC REPORT # 86-260

PREPARED FOR:

DEPARTMENT OF THE NAVY

ATLANTIC DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

NORFOLK, VA 23511

PREPARED BY:

JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

MAY 29, 1986

Ann E Rosecrance

Ann E. Rosecrance
Laboratory Director

JTC Environmental Consultants, Inc.

Location: Camp Lejeune - MCAS Date of Receipt: 4-9-86 Turnaround: routine

Date: 5-29-86 Report No. 266 Add. A to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-260 Table 1

NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		TOX %							
86-5	12-2444	0.17							
86-6	12-2445	80.9							
86-7	12-2446	0.21							
86-8	12-2447	7.07							
86-9	12-2448	0.17							
86-10	12-2449	13.1							
86-11	12-2450	8.95							
86-12	12-2451	3.90							

CHARACTERISTICS	SAMPLE #86-05	SAMPLE #86-06	SAMPLE #86-07	SAMPLE #86-08	SAMPLE #86-09	SAMPLE #86-10	SAMPLE #86-11	SAMPLE #86-12
Corrosivity: pH	8.6	8.5	8.8	8.7	8.7	6.8	8.9	7.9
Ignitability: Flash Point (140°F) (60°C)	~70°C	>100°C	>100°C	>100°C	>100°C	~45°C IGNITABLE	>100°C	28°C IGNITABLE
Reactivity Cyanide (250mg/kg)	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25
Sulfide (500mg/kg)	0.31	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toxcity-Limits	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
As (5 ppm)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ba (100 ppm)	<5	<5	<5	<5	<5	<5	<5	<5
Cd (1 ppm)	<0.12	<0.12	<0.12	<0.12	<0.12	<0.68	<0.12	<0.12
Cr (5 ppm)	9360	16,700	14,000	14,000	12,200	6320.	7360	2720
Pb (5 ppm)	<0.12	<0.12	<0.12	<0.12	<0.12	0.48	<0.12	1.2
Hg (0.2 ppm)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.79
Se (1.0 ppm)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Ag (5 ppm)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
PCB mg/9	<5	<5	<5	<5	<5	<5	<5	<5
Total Organic Halogen %	0.17	80.9	0.21	7.07	0.17	13.1	8.95	3.90
Recommended EPA Hazardous Waste ID#	D007	D007	D007	D007	D007	D001	D007	D001
Comments: Secondary EPA Hazardous Waste ID #'s which should be shown						D007		

Prepared by: Elizabeth Betz

Date: 18 JUN 86

ENCLOSURE (2)

Analysis Request

Samples: 86-5
86-6
86-7
86-8
86-9
86-10
86-11
86-12
} MCAS-New River Barrels

Parameters Requested: Hazardous Waste Characteristics
Ignitibilty
Corrosivity
Reactivity
Toxicity (EP Metals Only)
PCB
Total Halogen

Samples Taken By: Water Quality Control Laboratory, NREAD, MCB, Camp Lejeune, North Carolina

Turnaround: Two Weeks

Note: I am sending four sets of samples all with two week turnaround on them. Below shows the order of priority in which I need them.

1. Samples #86-13-15 (MCAS Waste Oil) 3
2. Samples #86-22-25 (HBWaste Oil) 4
3. Samples #86-5-12 (MCAS Barrels) 2
4. Samples #86-16-20 (TT Waste Oil) 5

UNITED STATES MARINE CORPS
2D FORCE SERVICE SUPPORT GROUP (REIN)
FLEET MARINE FORCE, ATLANTIC
CAMP LEJEUNE, NORTH CAROLINA 28542-5701

IN REPLY REFER TO:
5100
42

NO OIL TO TEST
~~35~~

CO OrdMaint CO ltr 5100 6/001 of 27 Jan 86

From: General, 2d Force Service Support Group (Rein)
To: Commanding General, Marine Corps Base, Camp Lejeune, NC
(Attn: AC/S Facilities/Director National Resources & Envvironmental Affairs Division)

Subj: REQUEST FOR PCB CERTIFICATION

1. Forwarded.

T. J. ROMANETZ
By direction

24 FEB 1986

From: AC/S Facilities
To: NREAD

1. Forwarded.

24 Feb 86

From: NREAD
To: Water Quality Control LAB

1. Please collect these SAMPLES NLT 15MAR86.


RECEIVED
19 FEB 1986

Dulw

UNITED STATES MARINE CORPS
2D FORCE SERVICE SUPPORT GROUP (REIN)
FLEET MARINE FORCE, ATLANTIC
CAMP LEJEUNE, NORTH CAROLINA 28542-5701

IN REPLY REFER TO:
5100
42

FIRST ENDORSEMENT on CO OrdMaint CO ltr 5100 6/001 of 27 Jan 86

From: Commanding General, 2d Force Service Support Group (Rein)
To: Commanding General, Marine Corps Base, Camp Lejeune, NC
(Attn: AC/S Facilities/Director National Resources & Envvironmental Affairs Division)

Subj: REQUEST FOR PCB CERTIFICATION

1. Forwarded.

T. J. ROMANETZ
By direction

24 FEB 1986

From: AC/S Facilities
To: NREAD

1. Forwarded.

From: NREAD
To: Water Quality Control LAB

24 Feb 86

1. Please collect these samples NLT 15 MAR 86.

D. Sharpe

UNITED STATES MARINE CORPS
2D MAINTENANCE BATTALION
2D FORCE SERVICE SUPPORT GROUP (REIN)
FLEET MARINE FORCE, ATLANTIC
CAMP LEJEUNE, NORTH CAROLINA 28542-5704

IN REPLY REFER TO:

5100
4/N/R
04 FEB 1986

FIRST ENDORSEMENT on CO OrdMaint Co ltr 5100 6/001 of 27 Jan 86

From: Commanding Officer, 2d Maintenance Battalion
To: Commanding General, Marine Corps Base, Camp Lejeune
(Attn: AC/S Facilities/Director National Resources & Environmental Affairs Division)

Subj: REQUEST FOR PCB CERTIFICATION

1. Forwarded. We appreciate your support in this matter.

2. If you have any questions, please call Gunnery Sergeant MOSS, S-4 Chief at 5222 or 3989.

B. A. NAZAROFF
By direction

Copy to:
CO. OrdMaint Co

UNITED STATES MARINE CORPS
Ordnance Maintenance Company
2d Maintenance Battalion
2d Force Service Support Group (Rein)
Camp Lejeune, North Carolina 28542

5100
6/001
27 Jan 86

From: Commanding Officer, Ordnance Maintenance Company
To: Commanding General, Marine Corps Base, Hazardous Waste Division
(Attn: Director Of Natural Resources And Enviromental Affairs Division)
Via: Commanding Officer, 2d Maintenance Battalion (Attn: S-4)

Subj: REQUEST FOR POLYCHLORINATED BIPHENYLS (PCB) CERTIFICATION

Ref: Defense Enviromental Quality Program Policy Memorandum (DEQPPM 80-9 Dated 10 Nov 1980

1. It is requested that a test for (PCB) be performed on two METAL LATHES located at BLDG# 901, so that the items can be stored.

2. POC: MgySgt BETTS or Sgt COMBEE PH# 3875

R. O. Thomas

R. O. THOMAS

HW 1986

6241/1