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1986

6241/1 NREAD(L) DEC 0 5 1986

From:

Marine Corps Base, Camp Lejeune Corps Base, Camp Lejeune

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)
ACA FAC
Blind copy to:
Lab (NREAD)

NEW YORK

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NOTE AND BUILT

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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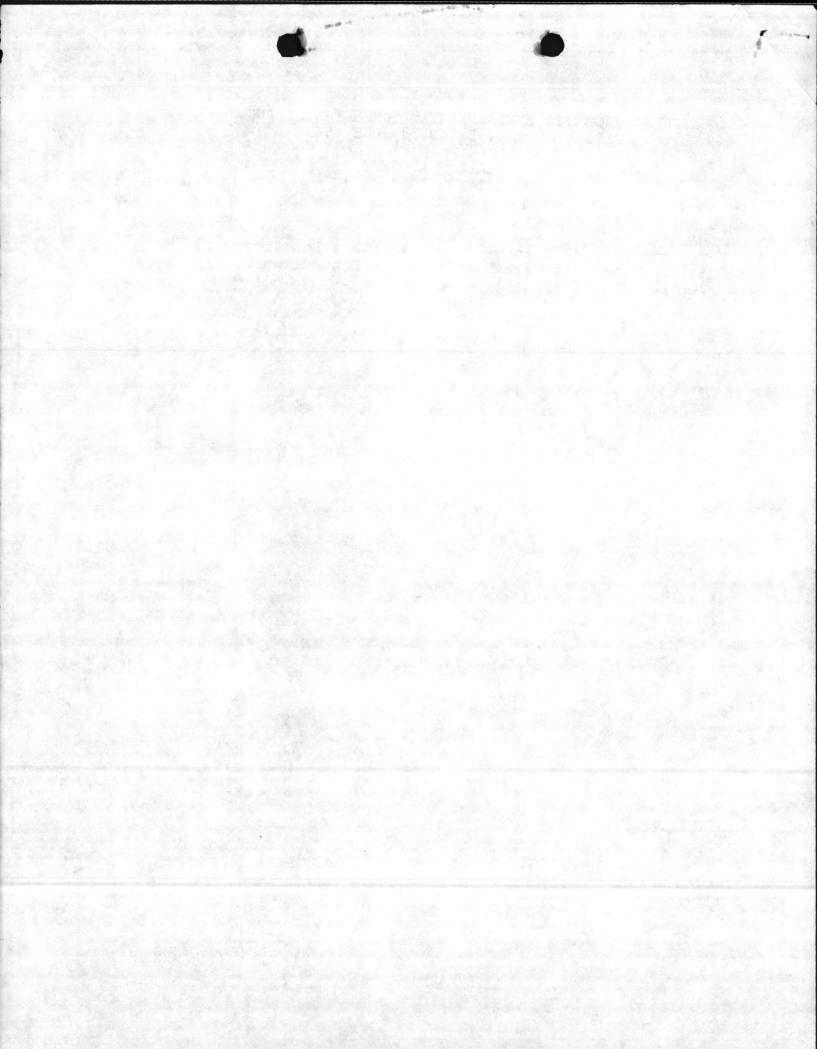
Service was Arrest

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.

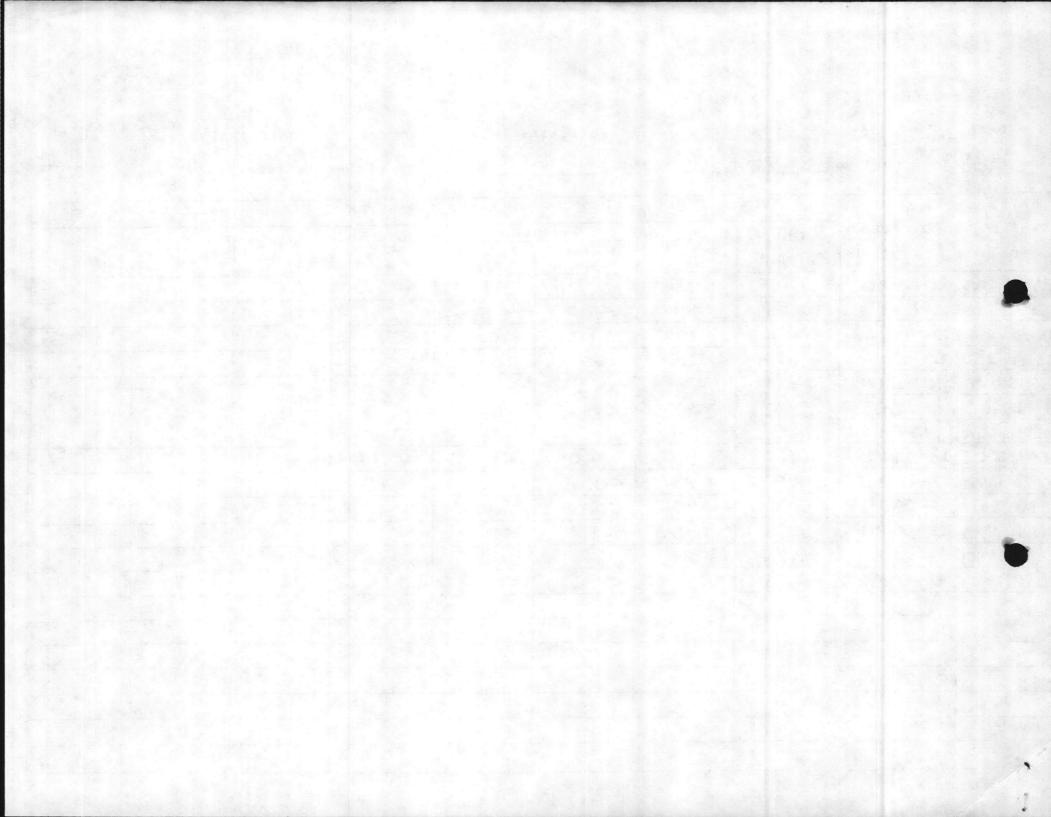


JTC Environmental Consultants, Inc.

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

JTC Data Report No. 85-254 Table | Date of Sample Receipt 3/28/85 4 5/23/85

NAVY	JTC	ANALYSIS PARAMETER								
ID	SAMPLE ID	pH (Corrosivity)	Flashpoint	React Cyanide ppm	Sulfide ppm	PCB ng/g				
BA HPWO	12-0920	7.18	< 85	0.9	<1	121				
3 \$ blg AP100	12-0921	6.55	< 85	< 1.0	<1	<1				
H 5th 251	12-0922	1.52	>200	0.02	<0.1	<1			10 10 10	
I Blg 251	12-0923	< 1.0	> 200	0.03	<0.1	< 5				
K Landfill	12-0924 12-0925 12-0926	6.32	> 200	<0.10	1.0	< 5				
Bly 18457	12.0927	41.0	153	40.05	<0.1	<1				
BLG TP 457	12-0928	4.89	< 85	< 0.05	40.2	<10			;	
Bldg 78457	12-0929	5.25	< 85	< 0.05	40,5	<10	•			
0 500 TP457	12-0930	9.56	< 85 .	<1.0	<0.5	<10		Land a		
P 1 17451	12-0931	6.85	≺ 85	6.2	<1	0.05 ug/nl				
व स्थितु ४२४।	12-0932	6.91	≺85	<1.0	<0.5	<0.1 ng/mi				
					<u> </u>					
	130									
	<del></del>	1	1	1			COST TO A STATE OF			



JTC Environmental Consultants, Inc.

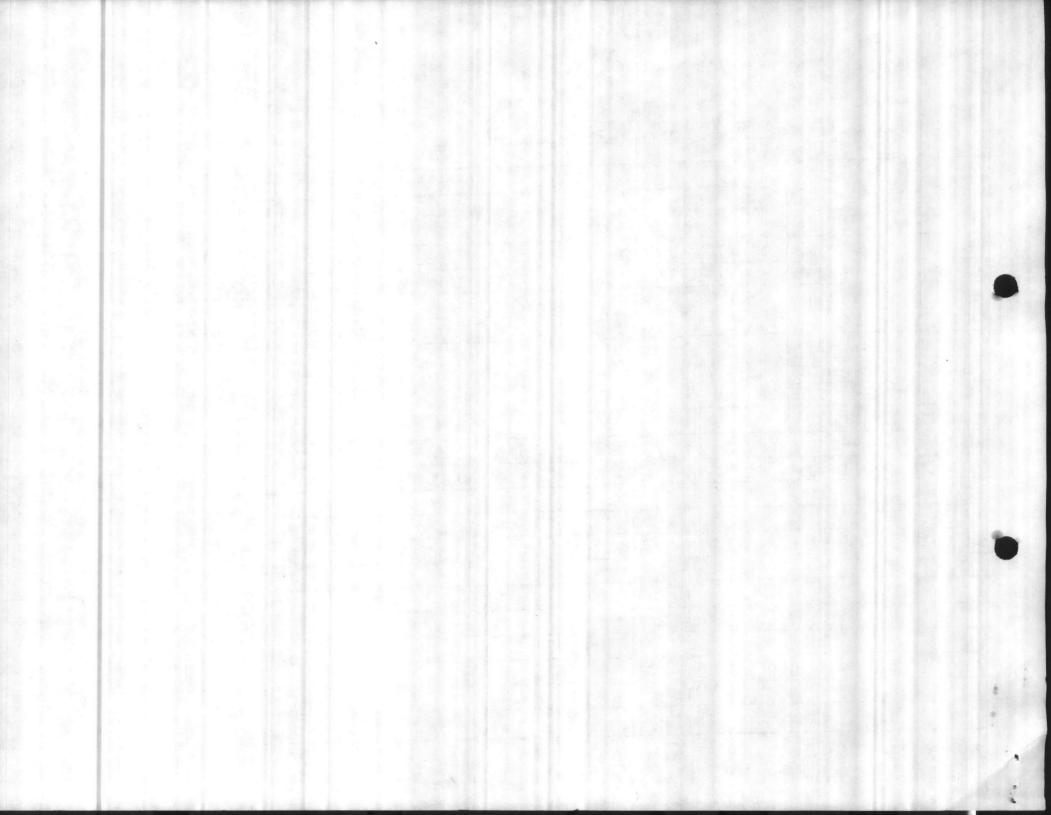
Date 6-28-85 Report No. 54 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 85-254 Table 5 Date of Sample Receipt 3/28/85 4 5/23/8:

NAVY	JTC	ANALYSIS PARAMETER								
SAMPLE ID	SAMPLE ID	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	
31 Bldg HP100		<1.0 mg/kg	· <20 mg/4	22.6 7/4	1.6 00/19	148 13/14	0 10 M4	1 C h		
18 Bly AP100	12-0921	<1.0 mg/kg	<20 mg/	4,8 19/14	1,4 19/14	0.8 mg/kg		The same of the sa	<1.0	
H 6th 251	12-0922	< 50 45/L		24404%		9950 40				
1I Blk 251	12-0923	290 49/2	<1000%	680 49/2	13,100 4/2	9850 45/2				
111) Find C8	¥ 12-0924			200 /	13,100 /	3,1204	<1.04/2	1960 4/2	<50	
8K Landfill	8 12-0925	2.3 7/4	< 20 %	10509	7 7 04	, _ mq,	ba.			
16 10 10	8 12-0926	- 3	1 20 19	< 0.50%	2.3 %	4.5 %	< 0.10 g	<0.40 7	<1.0	
9 \$14 78 457		. *	ji i	*	4			-		
0 BLG TP 457		<50 45/L	7800 %	<25 5/L		12 = 441	7 1111	*	*	
1-BUG 79457		<50 45/L	3130 49/	<25 4h	<50 mg/	62.5 45/	22 15/2	<20 4/L	<50	
20 50 TP451		+	+	+		21 49/2	<1.0 1/2	42049/	<50	
1.P 500 1P451		<50 4/L	1295 %	<25 kg	12100 141	+	1925	+	+	
1844 TP 451		<50 41/L	1535 4%		/-			<2014/1	<50	
7			1333 1	130 49/2	93,900 4/2	40,200%	7.9 1/2	<20 Mg/L	<50	
4										
-				Service Address		The state of				

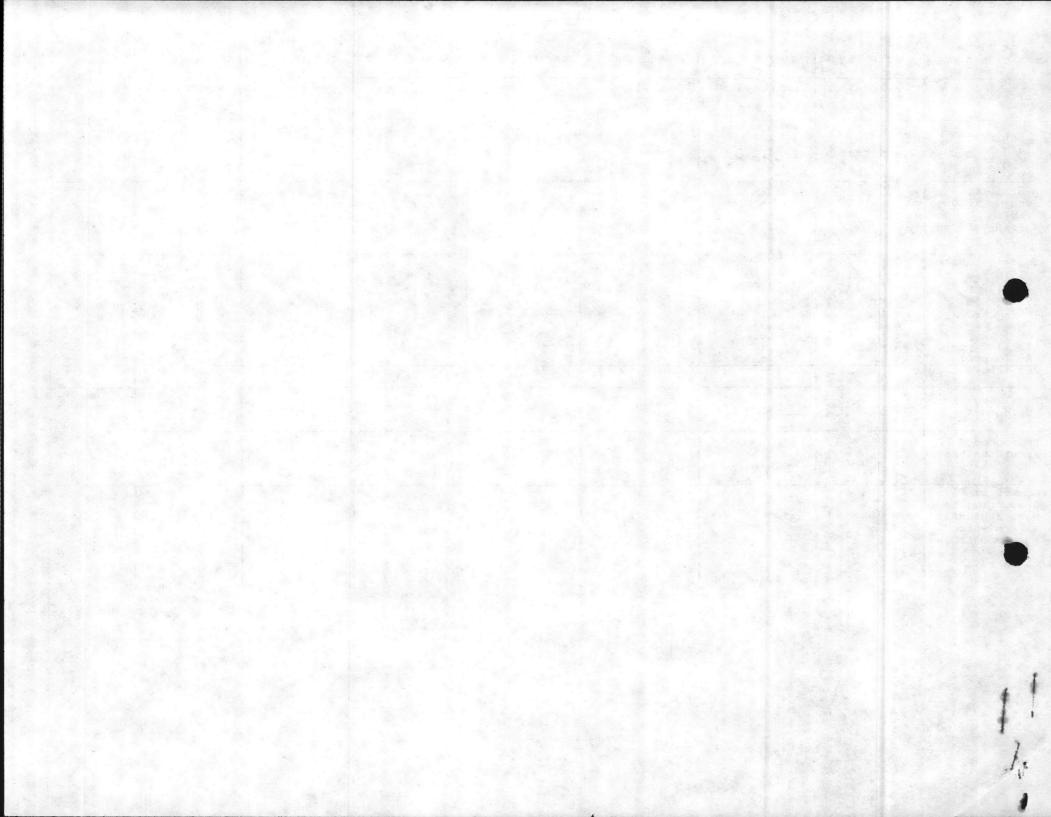
sample depleted

. 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-	#86-
Corrosivity:	CORROSIVE 1.52	corrosive <1.0						
Ignitability: Flash Point (140°F)	>200°F	>200°F						
Reactivity Cyanide (250mg /kg) Sulfide (500mg /kg)	m3/L 0.02 <0.1	m5/L 0.03 <0./						
Toxcity-Limits  As (5 ppm)  100 ppm)  Cr (5 ppm)  Pb (5 ppm)  Hg (0.2 ppm)  Se (1.0 ppm)  Ag (5 ppm)	mg/L <0.05 1.17 2.44 0.065 9.85 <0.001 0.141 40.05	13.1 3.12 40.001 1.94 40.005						
PCB mg/9	41	<5						
Total Organic Halogen %	NOT TESTED	-		190				
Recommended EPA Hazardous Waste ID#	Dooz	D002						
Comments: Secondary EPA Halardous Waste ID #'s which should be shown	D006 '	2007 2010						
							Prepared by: Elizabeth Betz	Date: ZI Nov &

ENCLOSURE (2)



## **Memorandum** NREAD

DATE:

24 Nov 86

FROM:

Director, Natural Resources and Environmental Affairs Division,

TO:

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

SUBJ:

ELECTROLYTE DRUM AT BLDG 1827

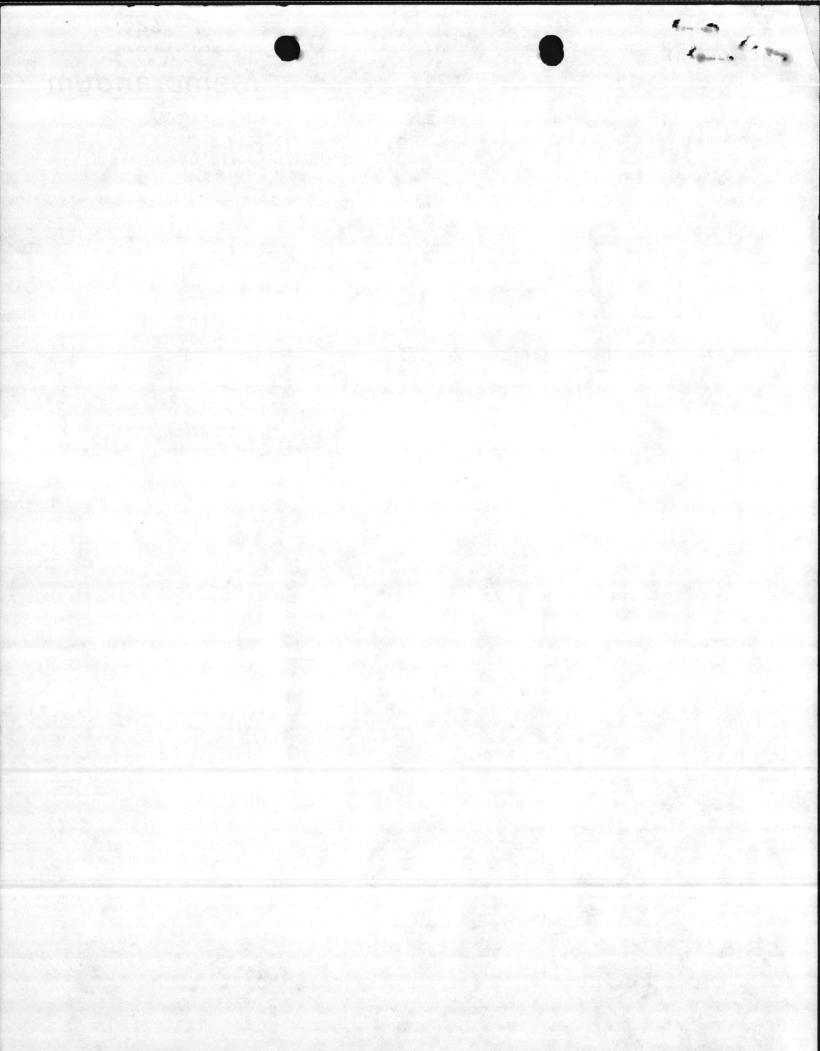
incl:

(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



## **Memorandum**

NREAD (L)

DATE: 20 Nov 86

TO:

Supervisory Chemist, Water Quality Control Laboratory, Environ-

mental Branch, Natural Resources and Environmental Affairs Division

Director, Natural Resources and Environmental Affairs Division,

Marine Corps Base, Camp Lejeune

ia: Supervisory Ecologist, Environmental Branch, Natural Resources

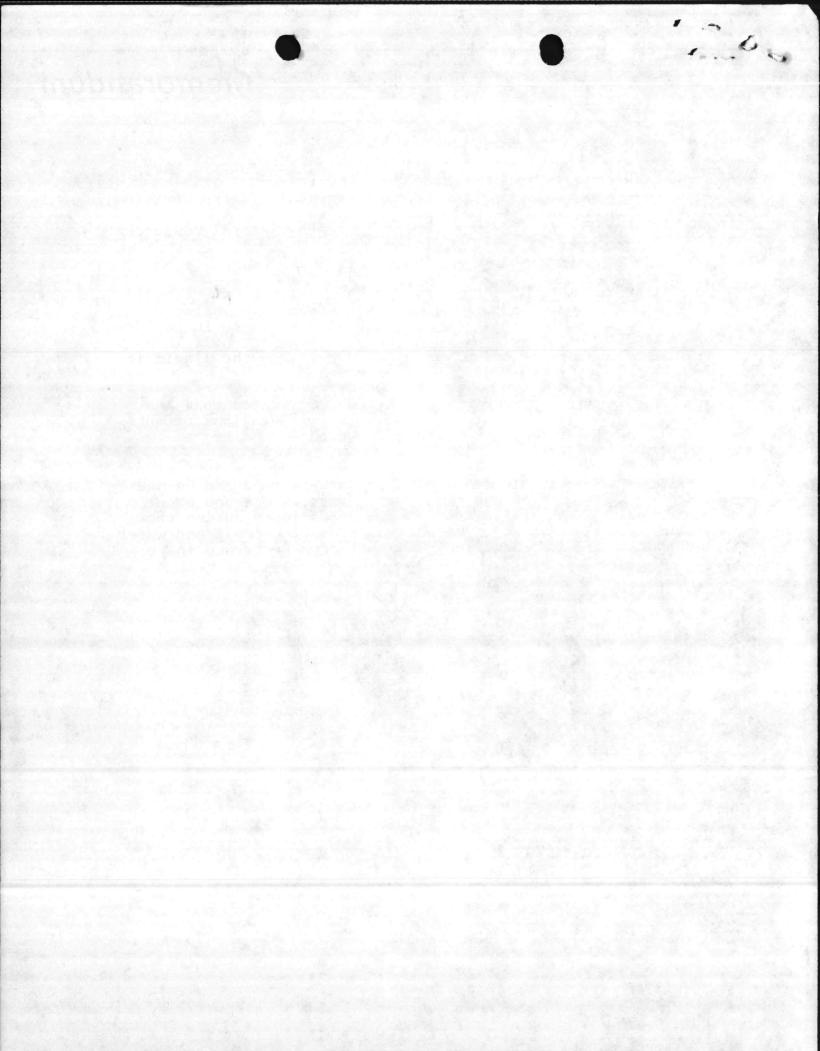
and Environmental Affairs Division

SUBJ: ELECTROLYTE DRUM AT BLDG 1827

1. On 20 November 1986, Manual Martin and I met Cp 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 antifreeze 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.

Copy to: Supvy Ecologist



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

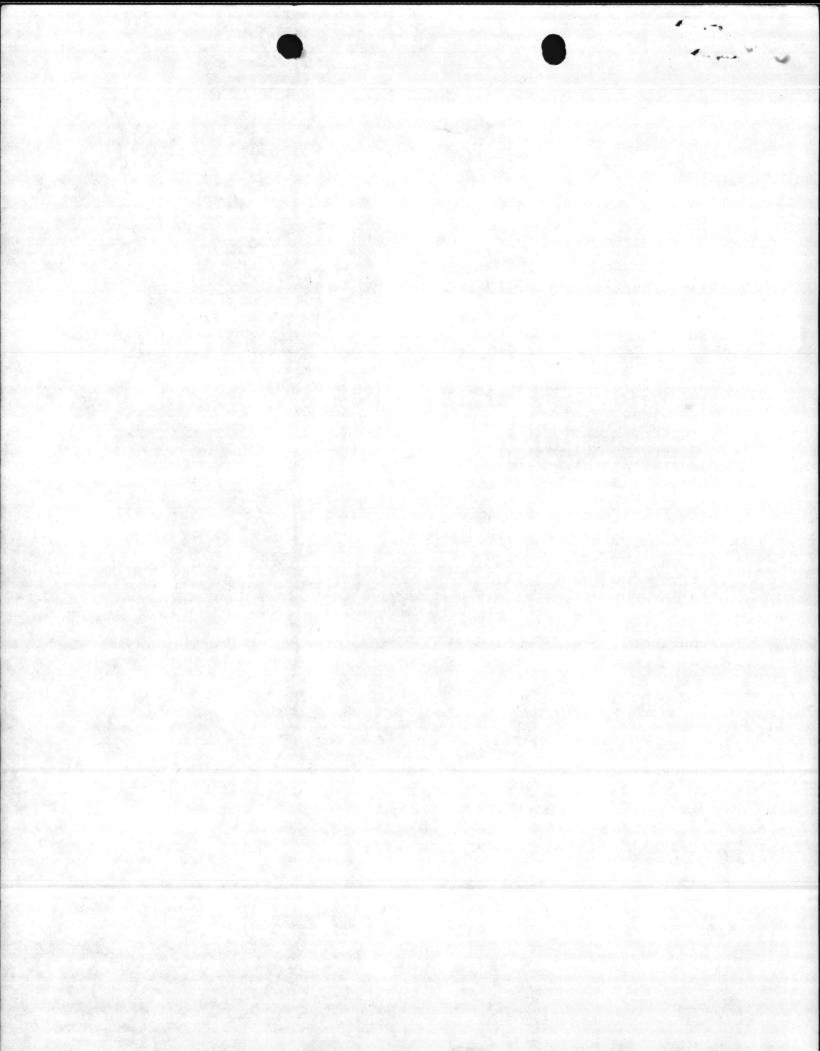
Resources and Environmental Affairs Division.

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Elizabeth A. Betz

Copy to: Supy Ecologist



2d FSSG

2 Nd Styry BN

Bly 1827

Electrolite Orun

with Cont

1797-2020

C/L MICHELS

FC-263

ANTIFEEEEE RAIN WATER

BLAG 1827

EPA 

9/29/86

8:30 +

8:30

BSSG-6

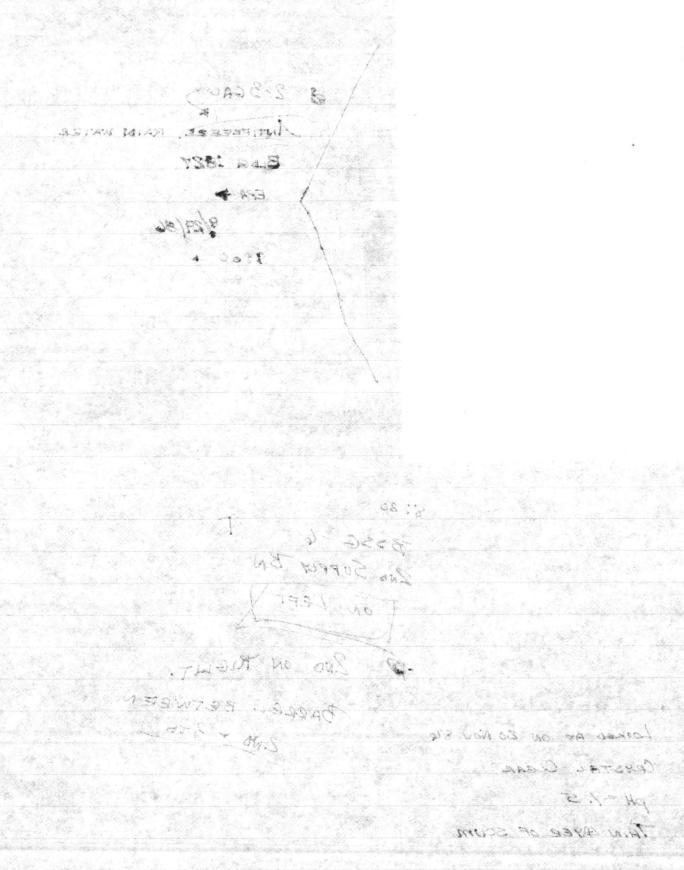
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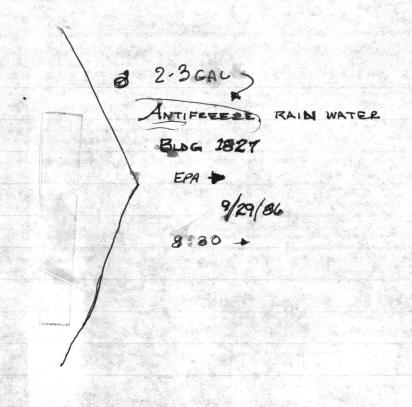
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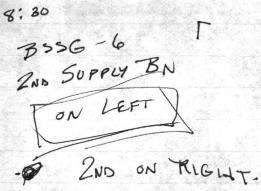
ZND ON RIGHT.

LOOKED AT ON ZO NOV 86 CRYSTAL CLEAR PH = 1.5 THIN GYER OF SCUM BARREL BETWEEN 2ND + 3TH



i





LOOKED AT ON ZO NOV 86 CRYSTAL CLEAR PH = 1.5 THIN GYER OF SCUM BARREL BETWEEN

& 2 Scal ANTIPREER RAIN WATER 7581 Pal ERT 78/52/8 4 Soft Deep le Jun Supper BN 1731 NO . THEM NO ON THEMT. DAGRE BETWEEN LOOKED AT ON 20 NOV 8'LD CERSTAL GLAR pH=1.5 THIN AYER OF SCOM 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, arces and Environmental

vironmental Affairs

Analysis

of 23 Oct 1986

of 22 barrels located been able to get out

- 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

48 Nov. 138

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10. Director Paul Rosousde and Ar**vison Paul Affairs** Distolation

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i. The reference requests thentification of 22 parrels located at the flatmante stores, area. I thus not despited able to ret out and look at the parrels.

2.; if the nowal baradeters are mut torrosivity frontspidity.

Head avity and H. Flatforidity for metals at approximately \$600

Her samile, the 22 baraels would east \$15,200,

if. Before the semples can be sexen, errangements will meed to be incled for analysis. Previously, we have sent, the Tankinles to IAMTRI exceptions to take the value to the set of the probabily have to have prior application and forward funds chear of times. The other choice is set contract our bun leaver or but take will take time for bids.

J. Fine estimated \$17,200 for 2nd Full's mantals and the estimated \$10,800 for the MCAS MR/s marrels is besed on \$500 per sample. The she barrels are arreading at a case on the shit nation, since we alread, have 40 perfels and anere will nacoably be agreed to come if we have the sime it affine the specialists of the since the sime it affine the special descriptions of the sime in the sime is constituted and analyzed and the special special sections and the special s

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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.
- 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

VREAD(B) 412 Nov 198

Profit Sunger sort Chemist Water Guative Control Emporatory?

Environmental Headh Webutal Resource and Environmental

Affadire Division at a

To. . Director Natural Resources and Environmental Affairs

Supt & Ed Juniy Battailon's Legues tor And your

THE TANK SEED FREE SEE WILLIAM SEED OF PROPERTY OF

1. The reference requests labatification of 22 parrels located at the latinable store a area. I now upt book at the barrels.

2.5 if the hours berameters are run, Corrosivity, Ignitibility described to the contract the Scounse of the 20 barnels would cost \$18.200;

if. Defore the spaces can be taken arrangements will need to be will need to be will need to be will need to be will need for analysis. Prevatously, we have sent whe said have bride to have the "yes dill broadly have a nave bride where is seriously and forward tights chead of tight. The other choice is see contract our and leadratory but this will take time for bids.

4. The estimated \$13,200 for 2nd full's papels and the estimated of \$10 800 for the ROAS NR's parrels is based on \$500 per shaple. If the Hyperrels are arrended for acceptor we can probably set a discount on the driverse. Since we airead have 40 parrels and there will probably be accept to come if we have the almost that also be a road idea of get our out confinant to cover magardous waste around the

Tilgaboth A. Bate

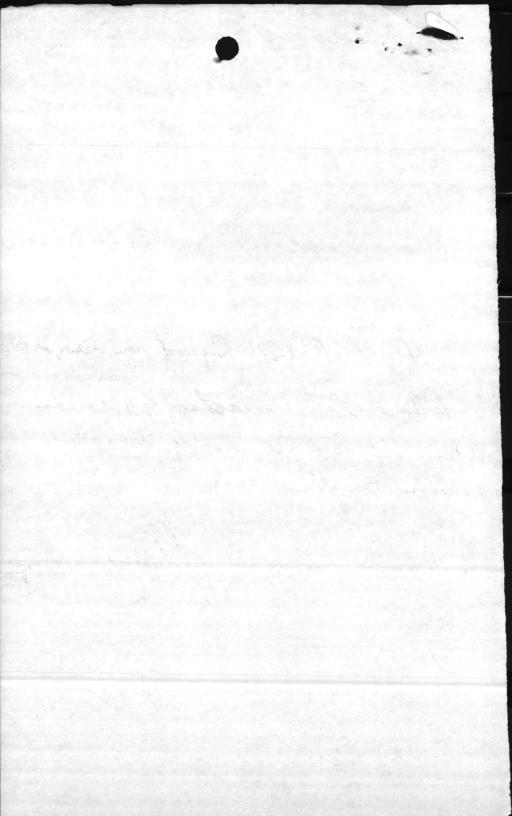
CART CHARTE

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

3/ Oct 86

From: Director
To: & Bilz
Subj: Haz Mat d.D. Request from 2D Supply BN.

Phose take attached for action advise if you are unable to enitiate action meft week.



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

Commanding Officer, 2d Supply Battalion From:

To: Commanding General, Marine Corps Base (Attn: Director

NREAD)

IDENTIFICATION OF HAZARDOUS MATERIAL Sub1:

Ref: (a) MCD 5100.25

> CG 2d FSSG 1tr 48/PWM/kty 6240 of 7 Aug 1980 (b)

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

- Presently, this command maintains twenty two (22) 55 gallon containers of unidentified substances located at the flammable storage area.
- 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
- It is requested that these materials be identified to enable proper disposal/recontainerization.
- Point of contact is WD H.J. CLAY at extensions 3405/3418.

By direction

SECRED BULLES MARRINE CETTINO Co Sugary Battalion w 2d Force Service Shadort Brough HEIM Fleet Martine Porces Atlantic Camb Lejebbe, Workb Carolina 28592-570

for media vicem co S. SOLE SER AVIOSIAS 23 Det 1386

> Commanding Officer, 20 bupply Battalpon Commanding General, Marine Corps Rase (Attm: Directo

> > TOENTTE CONTON OF HAZARDOUS MATERIALS TEUNE!

> > > (a) \_ MCO STRØLEE

16) CG Ed FBSG 1th 48/PCM/Rty B240 of 7 Pure 1980 . .

- 1. The references require labelling of bazardous naterials held The stock, for inventury and disposed burgoses. The track
- 2. Presently, this command maintains twenty two (22) 32 gallon containers of unidentified supelances located at the flammable storage area.
  - 3. Weathering conditions have mendered most enterior markings. unrespable, nowever the following items were identifications
    - a. Automatic transmission fluid
  - .b. Lune, 'o'll geap the termination of the control of the contr
    - . . . inevice beller,
    - vd. cleaning solvent
- It is requested that these materials of identified to enable gnopes disposal/recombainerization.
  - 5. Point of contact ig WO H. J. CLAY at extensions 3405.3418.

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

Subi: 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 DOOL hazardous waste per the reference.

JULIAN I. WOOTEN By direction

Copy to: 2dFSSG HMDC - 2 V 184 8

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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.

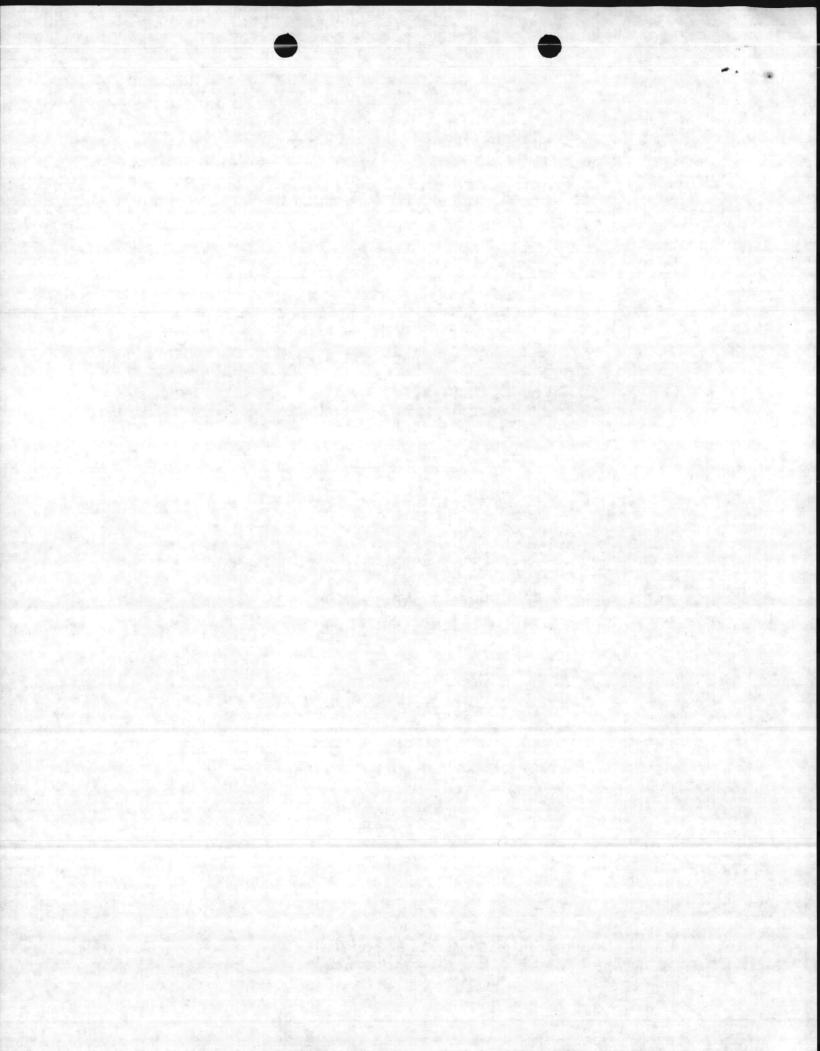
4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

JULY 1, 1986

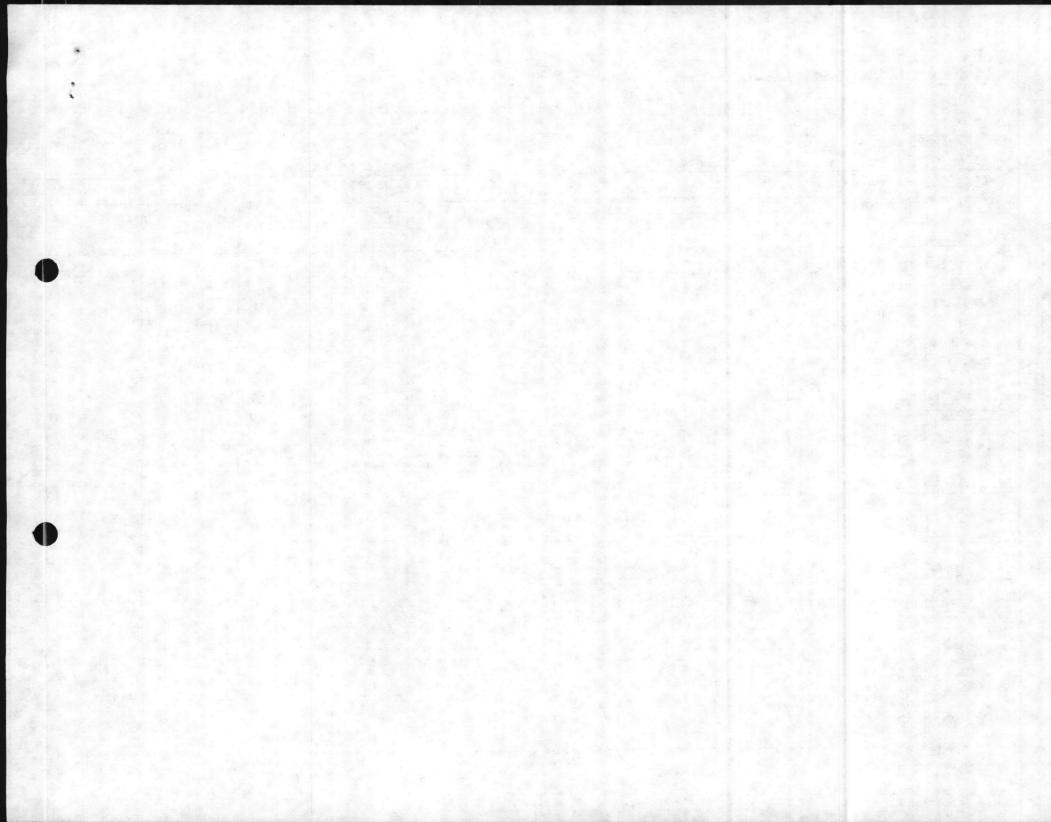
Ann E. Rosecrance Laboratory Director

ENCY TO THE



Location: Camp dejeune	Date of Receipt: 6-9-86 Turnaround: Nout	ine
Date: 7-1-86 Report No. 312	_ to Naval Facilities Engineering Command, Norfolk,	Virginia
JTC Data Report No. 86-371 Table		

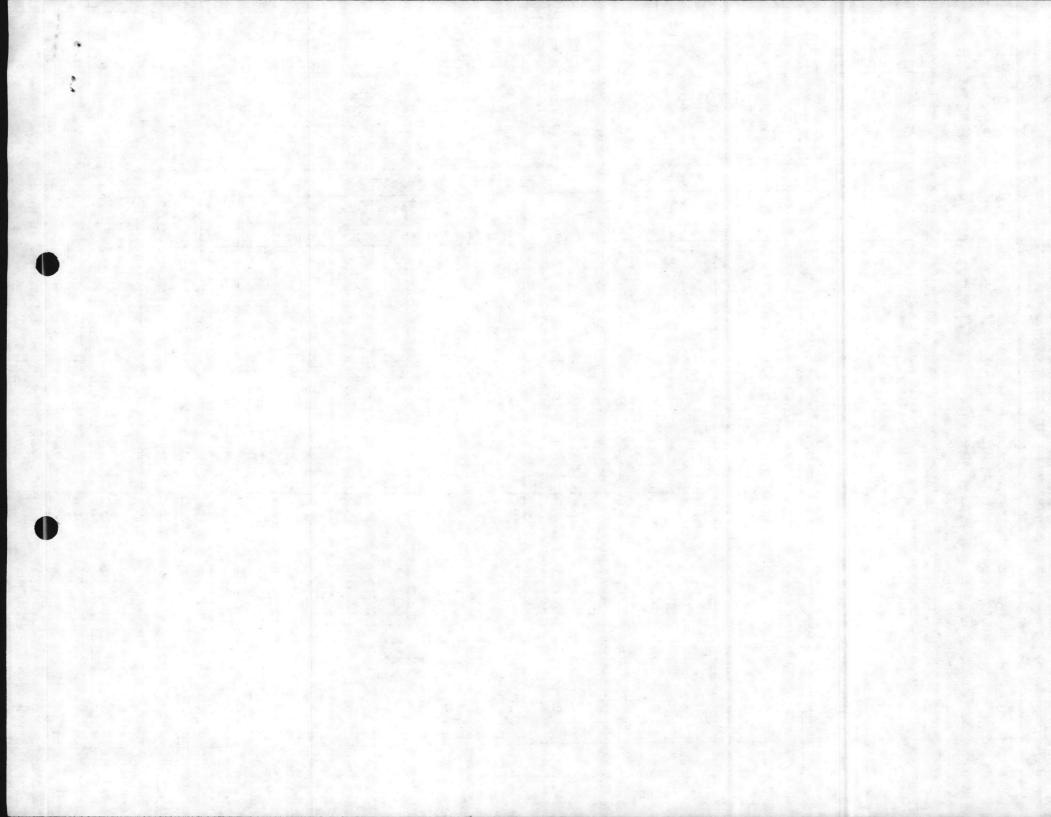
NAVY SAMPLE ID	JTC SAMPLE ID	ANALYSIS PARAMETER							
		Corrosivity pH	Reacti Cyanide	Sulfide mg/L	Flashpoint	TOX %			
MCBCL 86-27 barrel at steam plant	12-2870	10.0	<10 mg/L		>100	0.06			
MCBCL 86-28 barrel at flammable locker (2d FSSG)		9.7	1.93 <sup>mg</sup> / <sub>L</sub>	196	25 flame occurrid at 82	0,03			



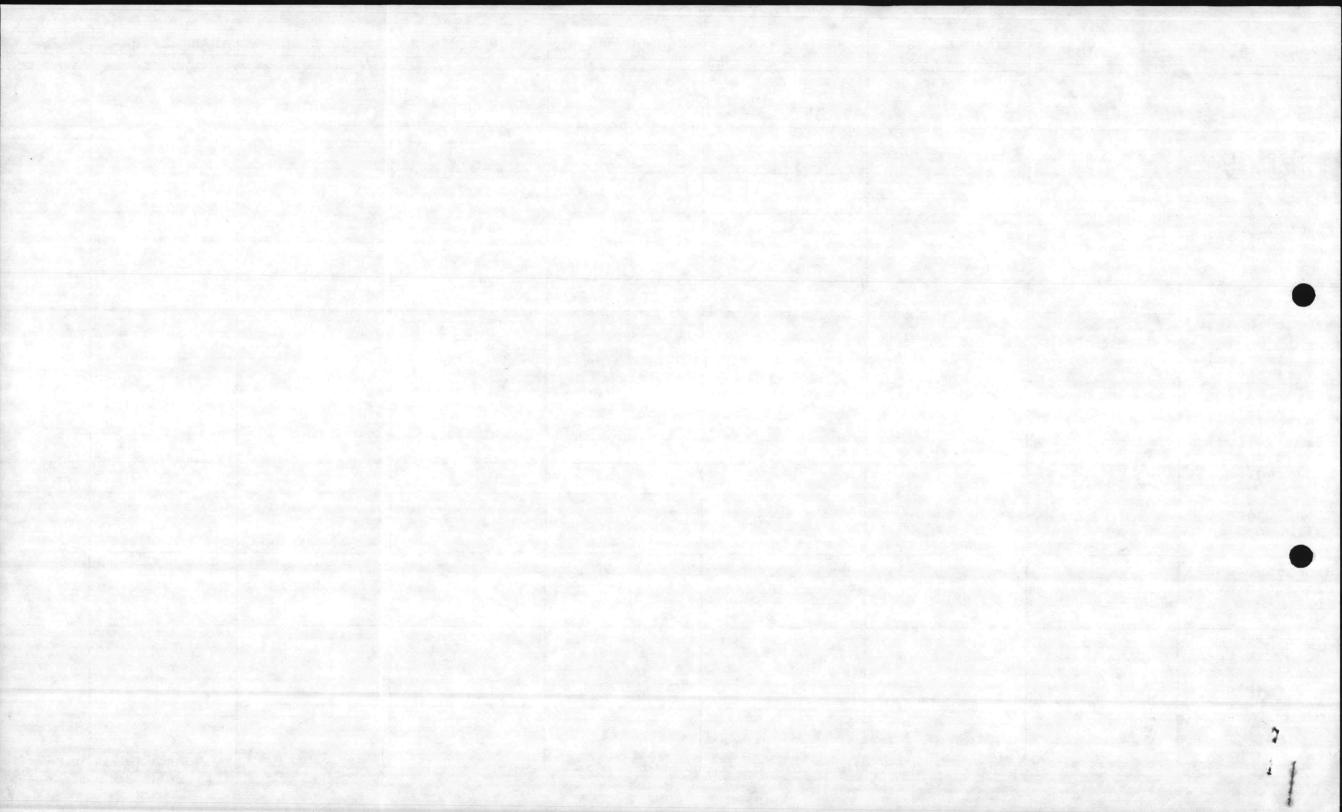
Date: 7-1-86 Report No. 312 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-371 Table 2

NAVY	JTC SAMPLE ID	ANALYSIS PARAMETER								
SAMPLE ID		As mg/kg	Ba mg/kg	Col mg/kg	Cr mg/kg	Pb mg/kg	Hq mg/kg	Se	Ag mg Akg	
MCBCL 86-27 barrel ot steam plant	12-2870			<0.25				mg/kg <0.25		
MCBCL 86-28 barul at flammable locker (2d FSSG)	12-2871	<0.5	<10	<0.25	3,6	17.9	<0.1	<0.25	<0.5	



HARACTERISTICS	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							
Reactivity Cyanide (250mg /kg) Sulfide (500mg	1.93 mg/L				•			
Toxcity-Limits As (5 ppm) Ba (100 ppm) Cd (1 ppm) Cr (5 ppm) Pb (5 ppm) Hg (0.2 ppm) Se (1.0 ppm) Ag (5 ppm) PCB mg/9	<0.5 <10 <0.25 3.6 17.9 Toxic <0.1 <0.25 <0.5		,					
Total Organic Halogen %	0.03							
Recommended EPA Hazardous Waste ID#	D00/							
Comments: Secondary EPA Harardous Waste ED #'s which should be shown	D008							
							Prepared by: Elizabeth Betz	Date: 22 Jour 198 DSURE (2



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

ANTEND TRANSPORT TO JOE 35

Prom: Director, Natural Bascurdes and Miniron anistairs
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To: Ease Ministerance Oliter rather Coups case; Camp Urjeun
(Athar Orillines Director)

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  - (3) Wanabdowalk ata Characterial of enclyaid of the

1. Enclosuring (1) and (2) invaring the Largeri langued to the land of the lan

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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:

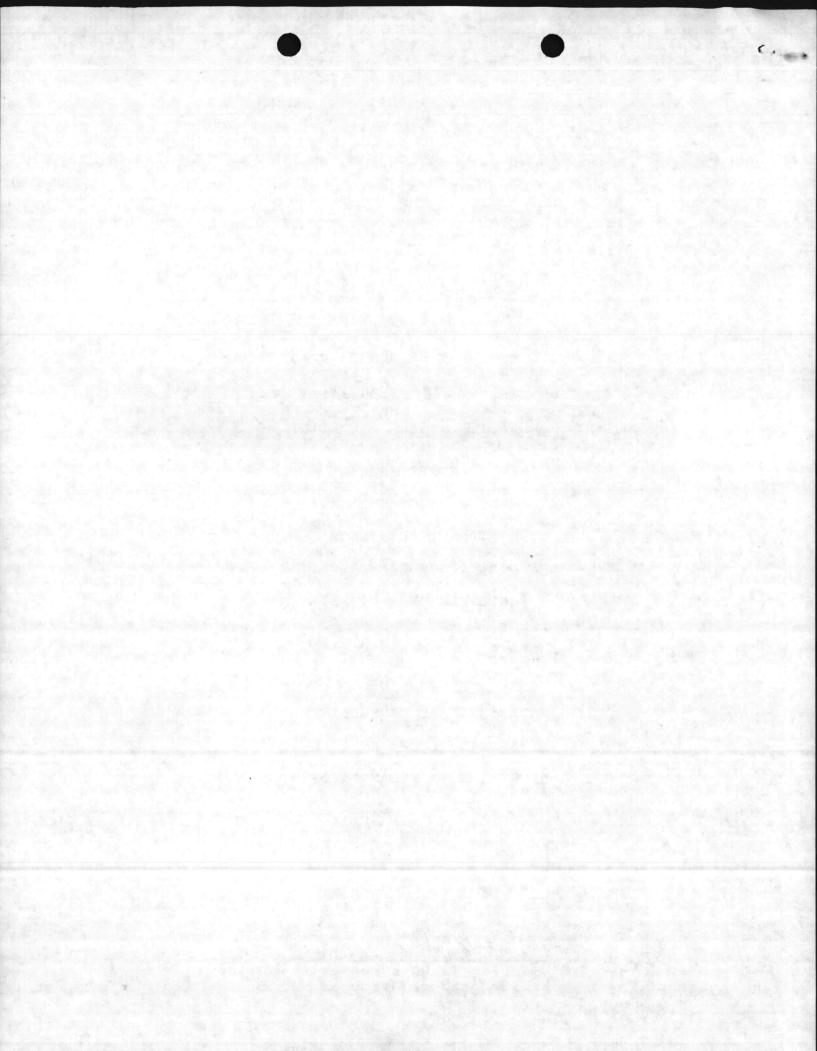
JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

JULY 1, 1986

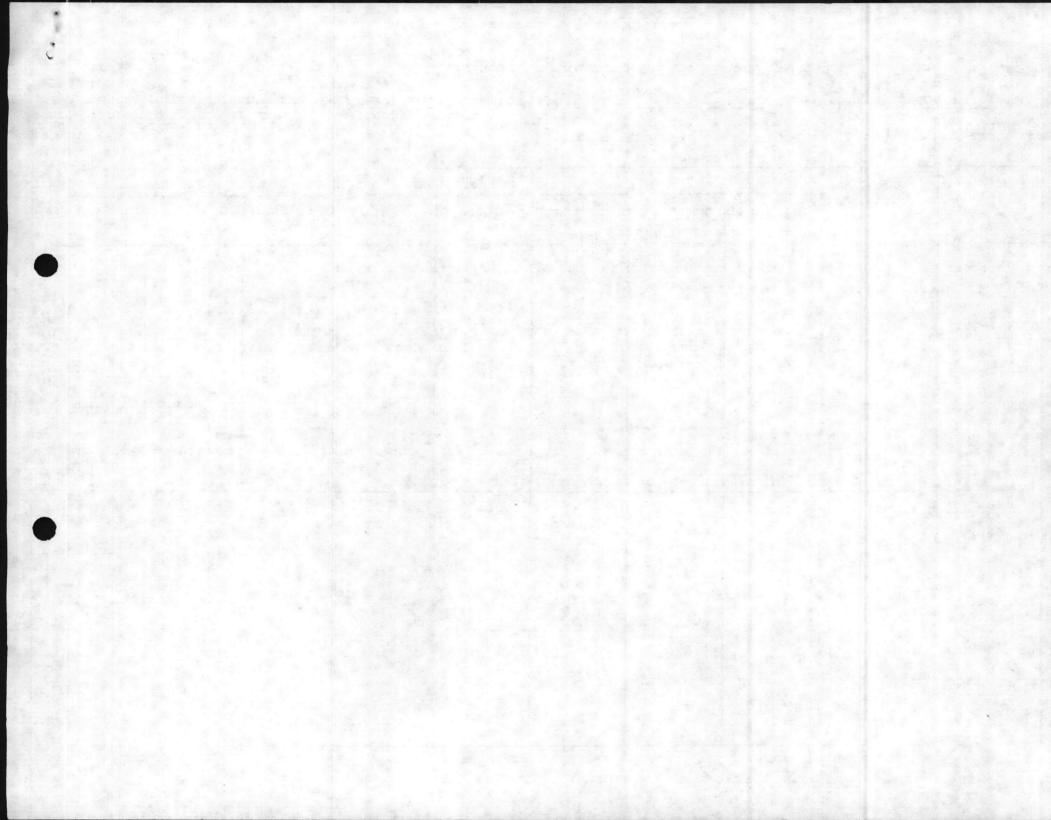
Ann E. Rosecrance Laboratory Director



## JTC Environmental Consultants, Inc.

Location: Camp		Date of Recei	pt: 6-9-86 To	urnaround: Nou	tine
Date: 7-1-86	Report No. 312	to Naval Fac	ilities Engineerin	g Command, Norfoll	c, Virginia
JTC Data Report No.	86-371 Tab	e			

NAVY	JTC				ANALYSIS P	ARAMETER		
SAMPLE ID	SAMPLE ID	Corrosivity pH	Reacti Cyanide	Sulfide mg/L	Flashpoint	TOX %		
MCBCL 86-27 barrel at steam plant	12-2870	10.0	<10 mg/L		>100	0.06		
MCBCL 86-28 barrel at flammable locker (2d FSSG)		9.7	1.93 <sup>mg</sup> /L	196	25 flami occurrid at 82	0,03		



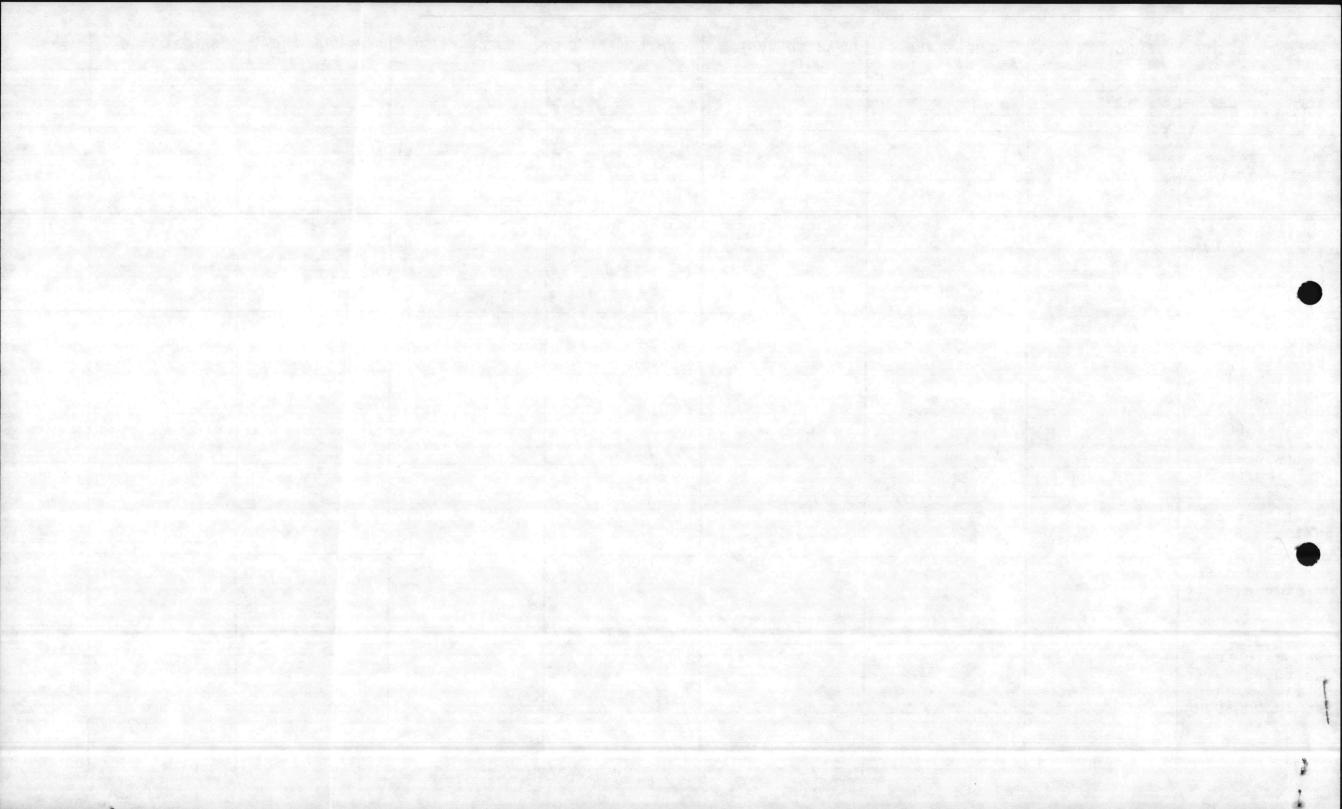
Date: 7-1-86 Report No. 312 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-371 Table 2

NAVY	JTC		ANALYSIS PARAMETER								
SAMPLE ID	SAMPLE	As mg/kg	Ba mg/kg	Cd mg/kg	Cr mg/kg	Pb mg/kg	Hq mg/kg	Se mg/kg	Ag mg Akg		
MCBCL 86-27		0 0		0 1	J. J.	0-1	3'3	77-9	mg /kg		
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		



	SAMPL												
CHARACTERISTICS	SAMPLE #86-公	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-0	SAMPLE #86-0	SAMPLE #86-	SAMPLE #86-	#86-					
Corrosivity: pH	10.0 SUGHTU BASIC												
Ignitability: Flash Point (140°F)	>100°C												
Reactivity Cyanide (250mg /kg) Sulfide (500mg	<10 mg/L 483 mg/L												
Toxcity-Limits As (5 ppm) Ba (100 ppm) Cd (1 ppm) Cr (5 ppm) Pb (5 ppm) Hg (0.2 ppm) Se (1.0 ppm) Ag (5 ppm)	<0.5 <10 <0.25 <0.5 <0.25 <0.25 <0.1 <0.25 <0.5		į										
PCB mg/9													
Total Organic Halogen %	0.06%												
Recommended EPA Hazardous Waste ID#	NONE												
Comments: Secondary EPA Harardous Waste TD #'s which should be shown													
1							Prepared by: Elizabeth Betz	Date: 22 July 19 OSURE 1:					



### Analysis Request

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

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

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

es

Cover Under: Navy Contract

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# ANALYSIS REQUEST

SAMPLES! #86-27 FROM 55 GALLON DRUM @ MAIN STEAM PLANT

\*86-28 FROM 55 GALLON DRUM @ ZND FSSG'S FLAMMABLE

PARAMETERS REQUESTED: HAZARISOUS WASTE CHARACTERISTICS

TENITIBILTY

CORROSIVITY

REACTIVITY

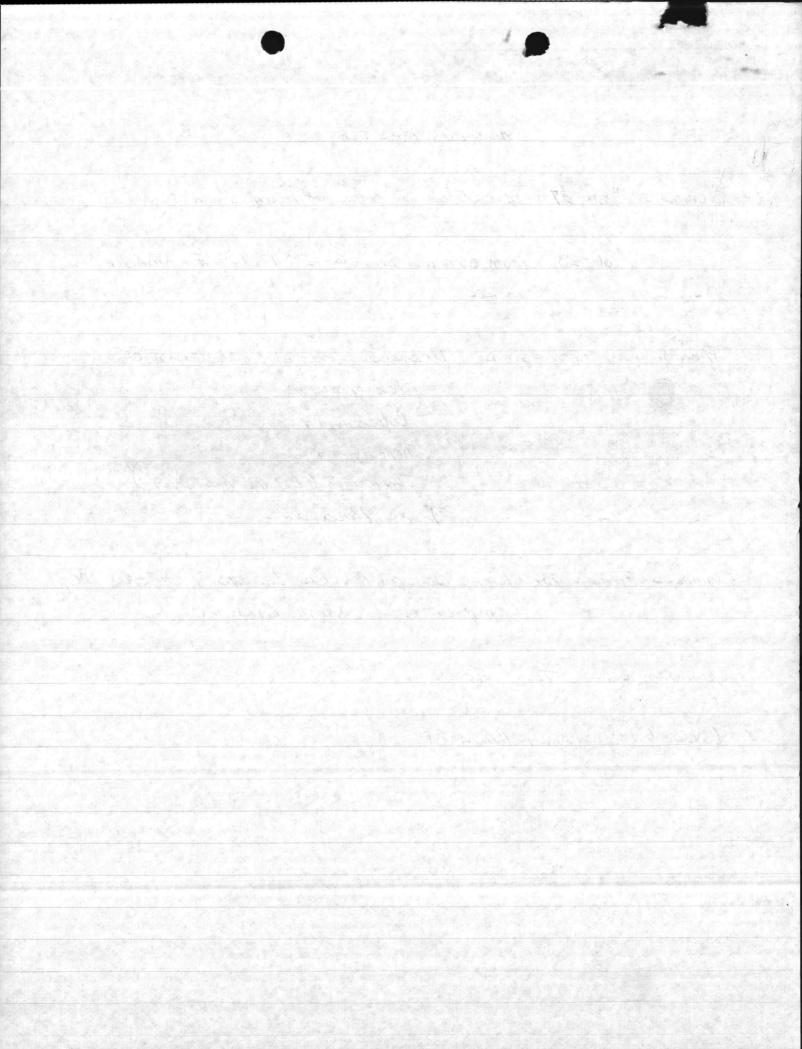
TOXICITY (EP METALS ONLY)

TOTAL HALOSENS

SAMPLES TAKEN BY: WATER QUALITY CONTROL LABORATORY, WREAD, MCB

JURNAROUNS: Two WEEKS

COVER UNDER: NAVY CONTRACT



6240 NREAD 25 Jun 86

From: Director, Natural Resources and Environmental Affairs

Division, Marine Corps Base, Camp Lejeune

To: Assistant Chief of Staff, Pacilities, 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 Pire Protection Division (BPPD) 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

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COLUMN T ANTONIA

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

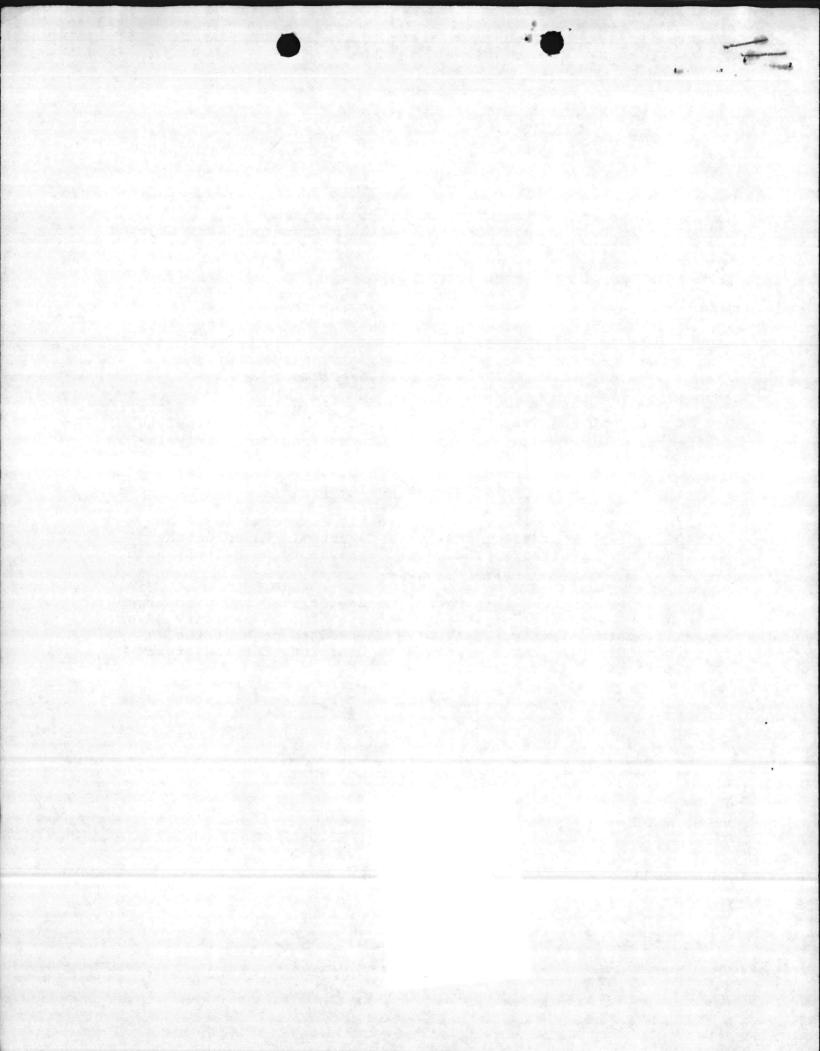
- 1. Enclosure (1) advised that the 2d Assault Amphibian Battalion (2d AAVBN) has one 55-gallon drum containing used electrolyte, sodium bicarbonate and an unknown substance needing analysis and disposal. Enclosure (2) is the analysis, performed by JTC Environmental Consultants (Sample #86-01). Enclosure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

AMTRAC'S BARREL



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

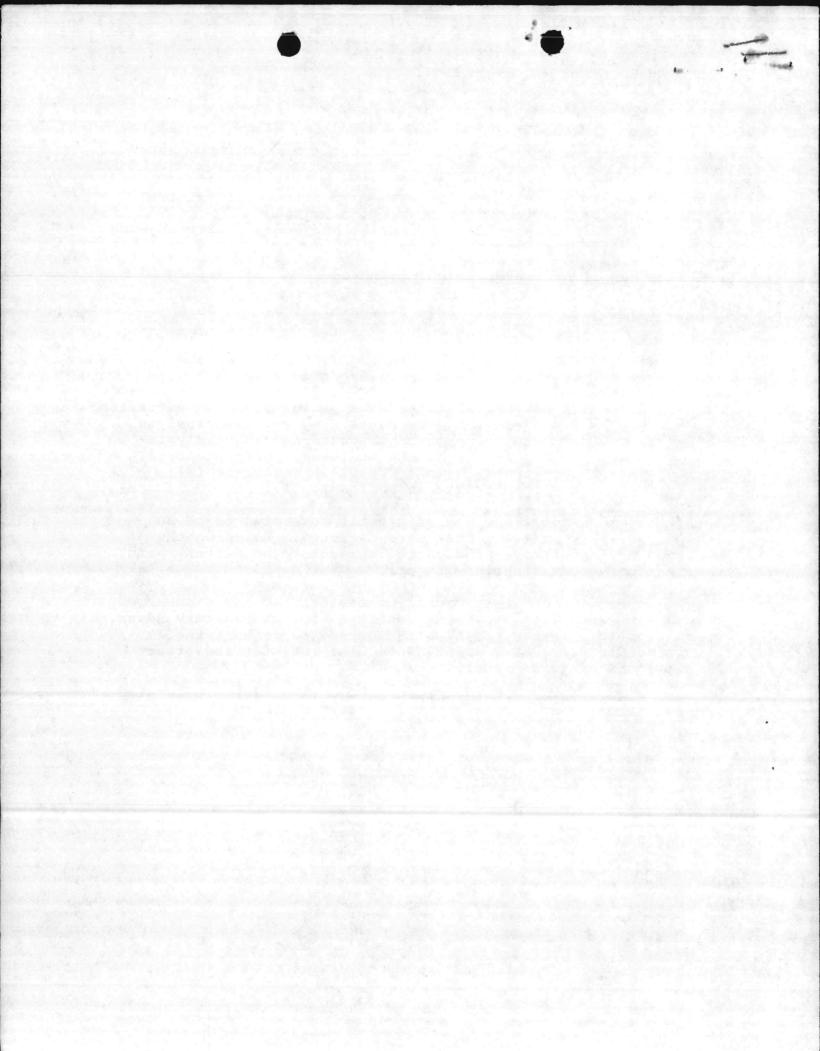
(3) Hazardous Waste Characteristic Analysis of the Barrel at AMTRACS datd 19 Jun 1986

- 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.
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- 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:





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.

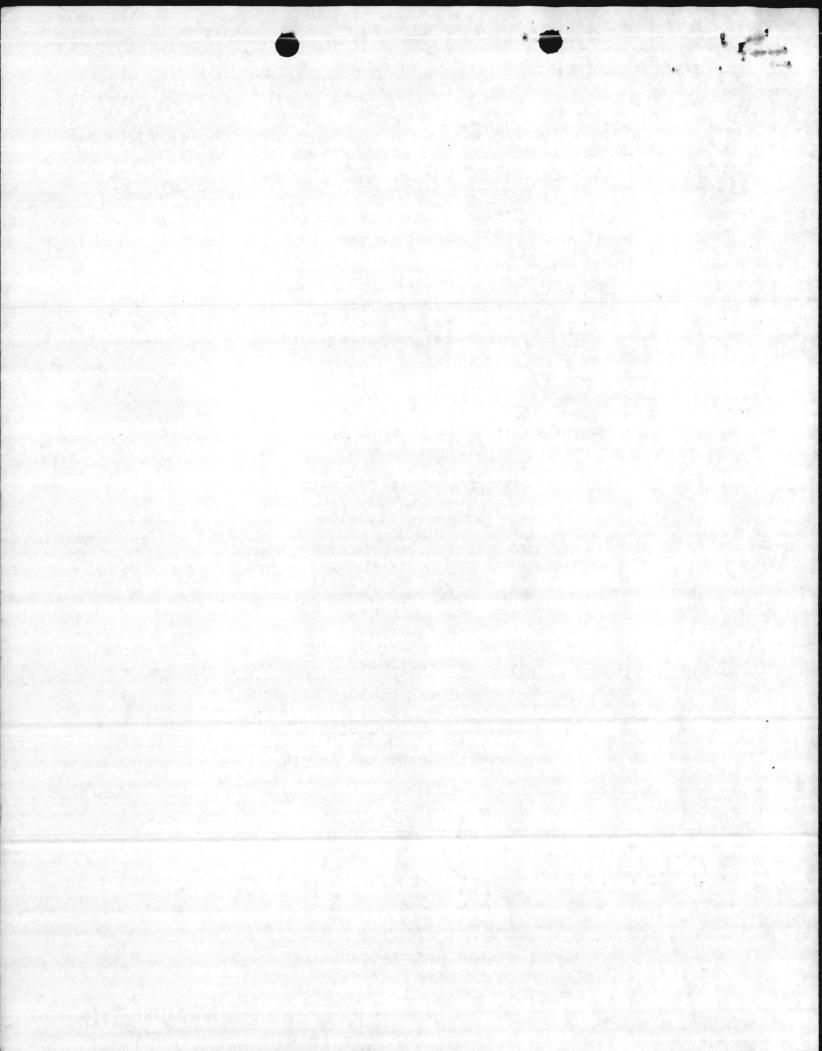
4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

APRIL 23, 1986

Ann E. Rosecrance Laboratory Director

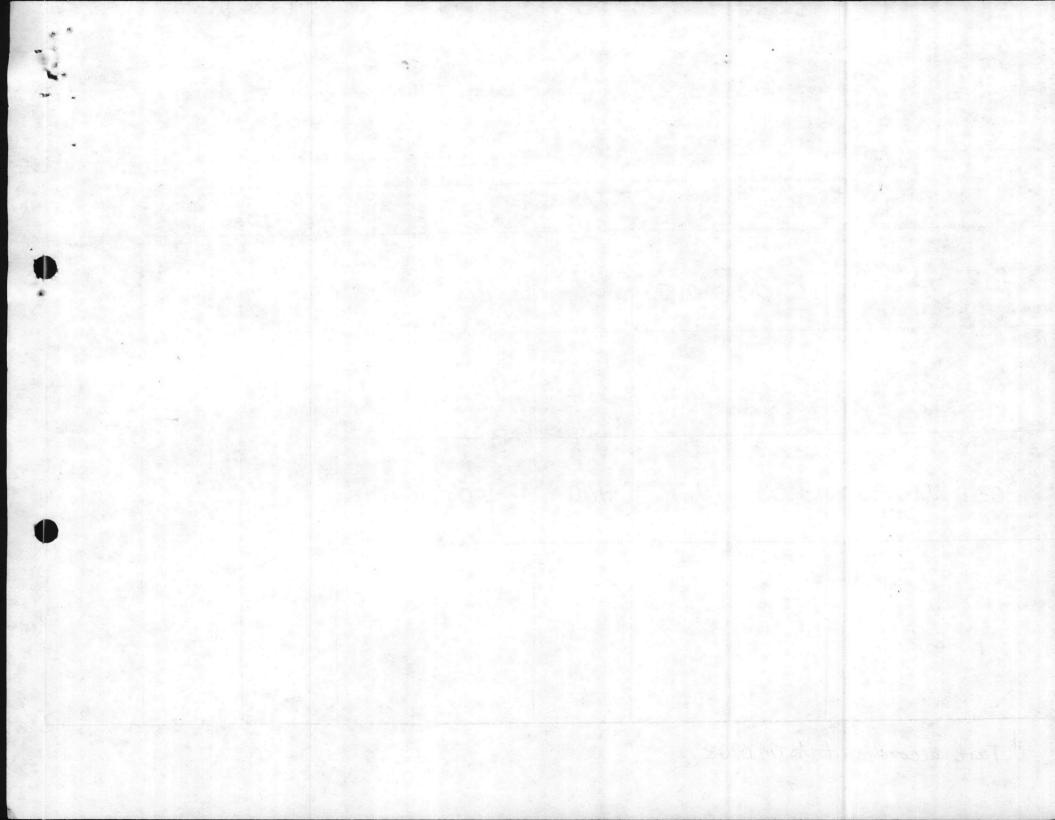




Location: Comp Lejeure	Date of Receipt: 3/18/86 Turnaround: 1	outine
11 32 91	to Naval Facilities Engineering Command, Nor	
JTC Data Report No. 86-209 Table_		

NAVY	JTC		1		ANALYSIS I	PARAMETER	Be a first of the		
ID	SAMPLE	рН	Cyanide mg/kg	Sulfide mg/L	Flash point	TOX *		T	
86-01	12-2318	1.93	<0.5	120	Hame at	<0.01			
86-02	12-2319	5.50	<0.5	310	42	5.77	, (3. * ) ,		
86-03	12-2320	3.58	1.7	460	>100	0.04			

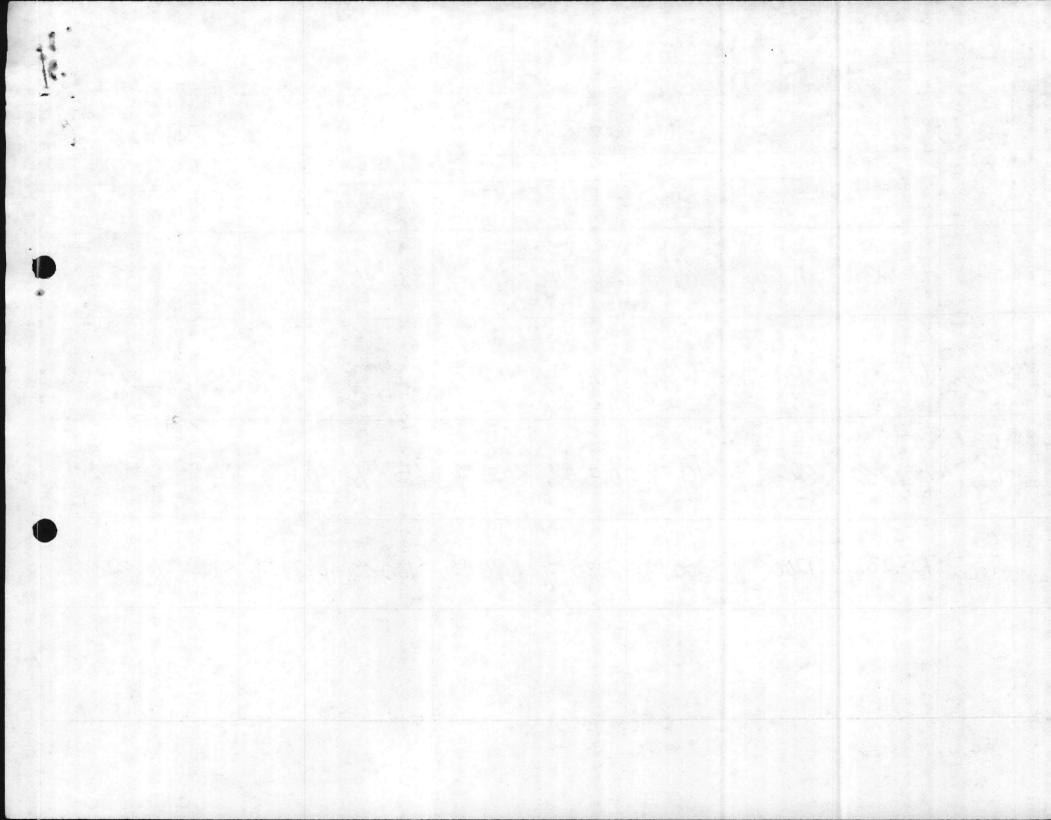
<sup>\*</sup> Test according to ASTM D808



Location: Compe	Lejeune	Date of Receipt: 3/18/86 Turnaround: Noutine
Date: 4-23-86	Report No. 252	to Naval Facilities Engineering Command, Norfolk, Virginia

JTC	Data	Report	No. 86-209	Table_	2	1 3/2

NAVY	JTC	ANALYSIS PARAMETER									
SAMPLE	SAMPLE ID	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		
86-02	12-2319	<0.1 mg/kg	<4 mg/kg	<0.1 mg/kg	<0.2 mg/kg	<2 "9/kg	<0.1 mg/kg	<0.1 mg	0.4 mg/kg		
86-03 oil layer	12-2320	<0.25 mg/kg	<10 "9/kg	0.3 mg/kg	40.5 mg/kg	45 mg/kg	40.1 mg/kg	40.25 mg	40,5 mg/kg		
86-03 water layer	12-2320	1200 49/2	<200 ug/L	2080 2080	1690 49/2	<100 ug/2	0.29 49/2	<10 mg/L	< 20 vg/		





#### UNITED STATES MARINE CORPS

2d Marine Division, Fleet Marine Force Camp Lejeune, North Carolina 28542-5500

HOOO 4000 G-4 ENGR 6 Nov 85

FIRST ENDORSEMENT on CO, 2d AAVBN 1tr 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

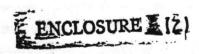
1. Forwarded for action as discussed during reference (b).

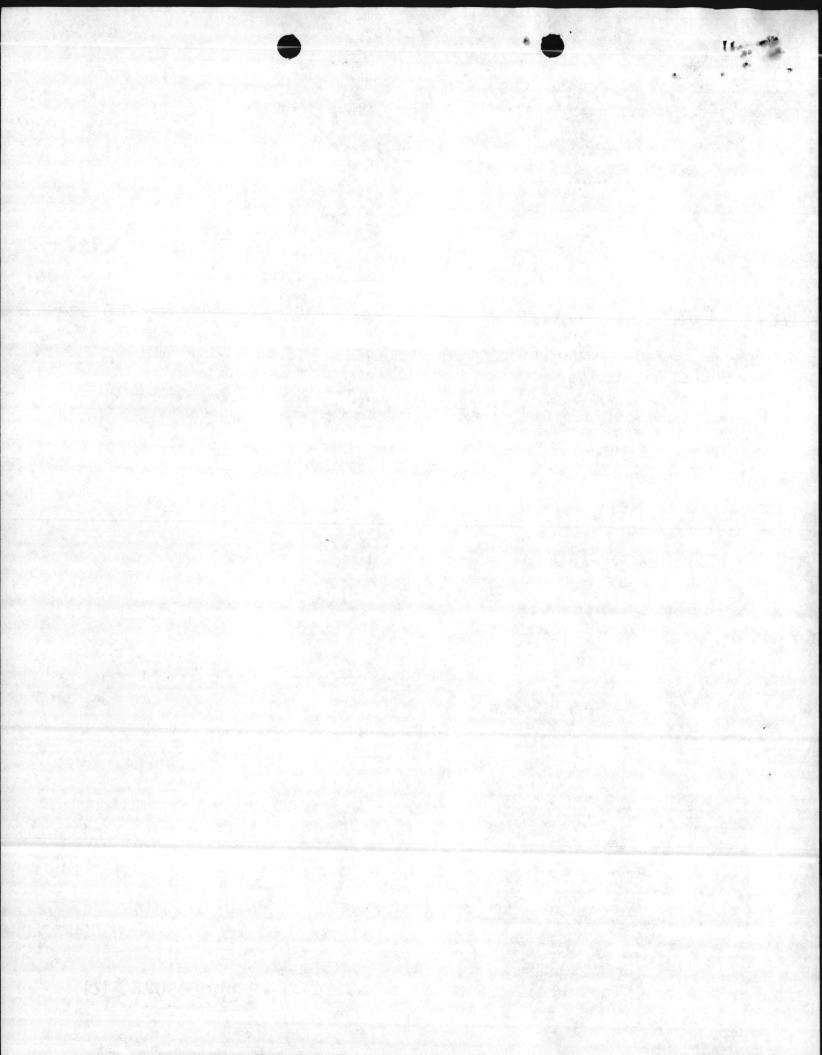
2. Points of contact at this headquarters are LtCol Marapoti or MgySgt Kaup,

Division Engineers, extension 2755/2302.

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 2 4 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

Subi:

ANALYSIS AND DISPOSAL OF UNKNOWN SUBSTANCE, REQUEST OF

Ref:

Conversation between Capt. TEDESCHI Bn MaintO and Base (a)

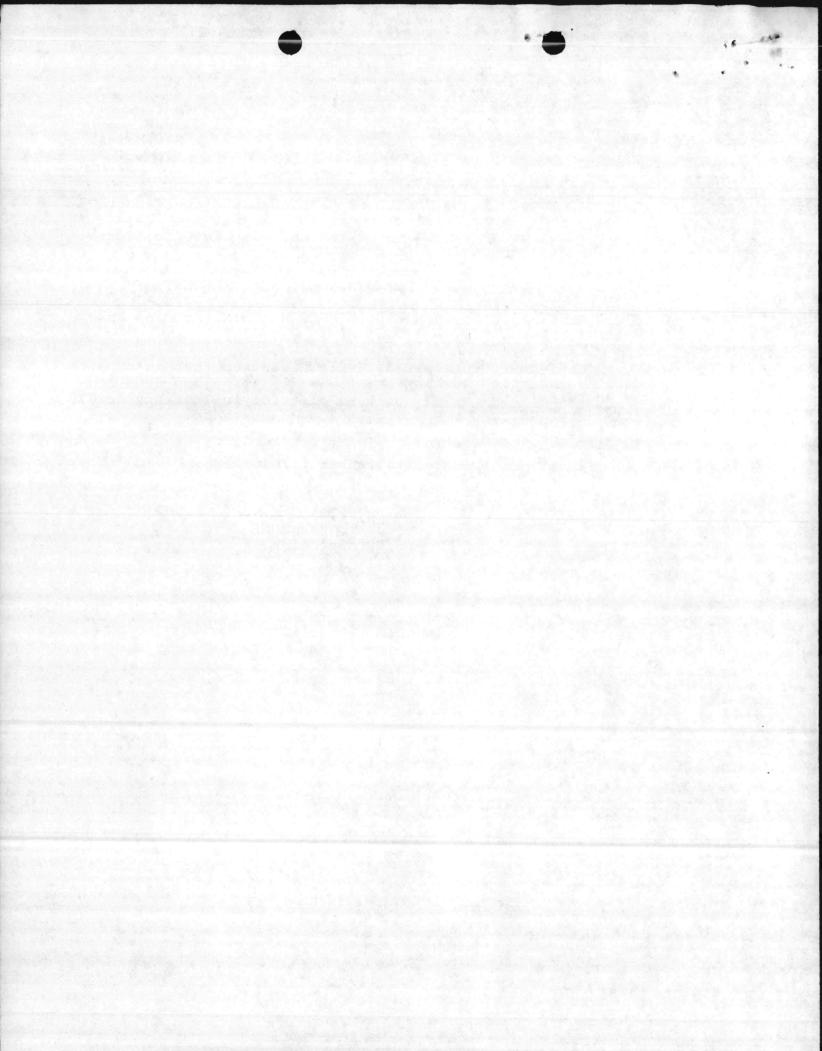
Maintenance Disposal Team of 15 Oct 85

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.

direction

Copy to: Bn MaintO





#### UNITED STATES MARINE CORPS

2d Assault Amphibian Battalion 2d Marine Division, Fleet Marine Force Camp Lejeune, North Carolina 28542

N REPLY REFER TO: 5000 S-4/Maint 2 4 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

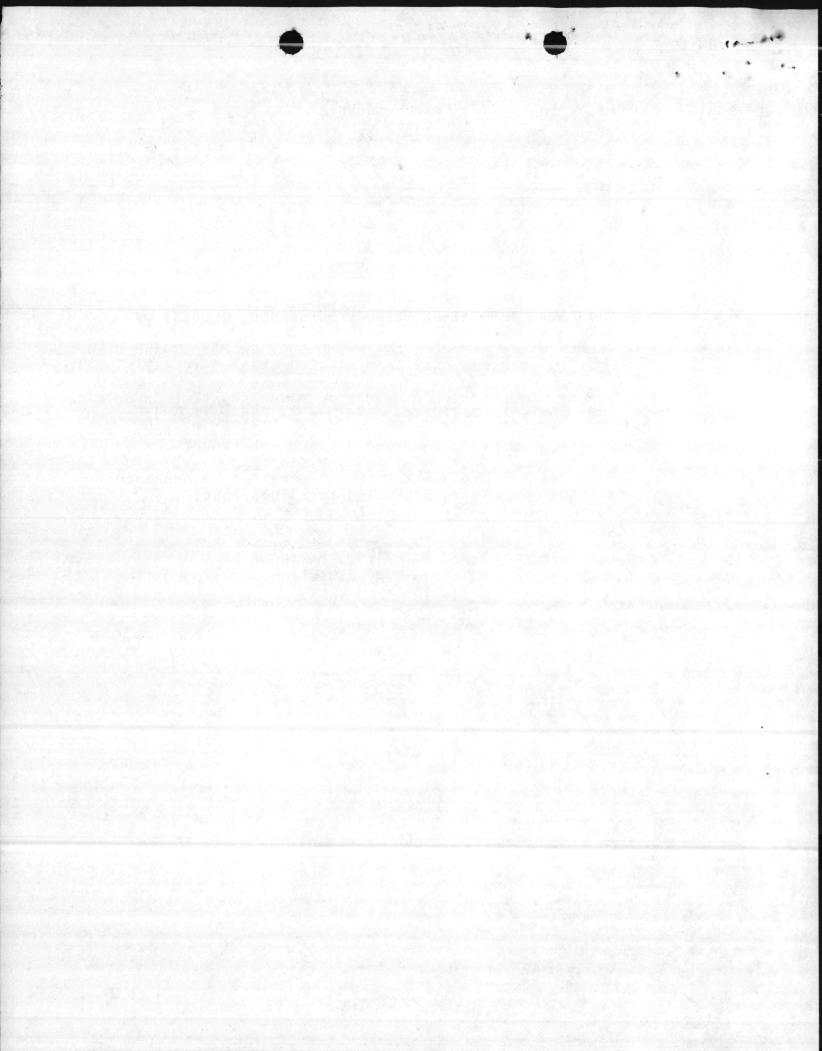
Ref:

(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



## 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:	1.93 Corrosive							
Ignitability: Flash Point (140°F) or ( 60°c)	<b>√</b> 70°c 158°F							
Reactivity Cyanide (250mg /kg) Subside (500mg	<b>&lt;</b> 0.5 120 mg/1							
Toxcity-Limits As (5 ppm) Ba (100 ppm) Cd (1 ppm) Cr (5 ppm) Pb (5 ppm) Hg (0.2 ppm) Se (1.0 ppm) Ag (5 ppm)	1 <10 12 <0.5 98 0.1 0.35 0.5							
PCB mg/9								
Total Organic	< 0.01							
Recommended EPA Hazardous Waste ID#	D002							
Comments: Secondary EPA Harardous Waste ID #'s which should be shown	D008							
							Prepared by: Elizabeth Betz	Date: 6/19/86

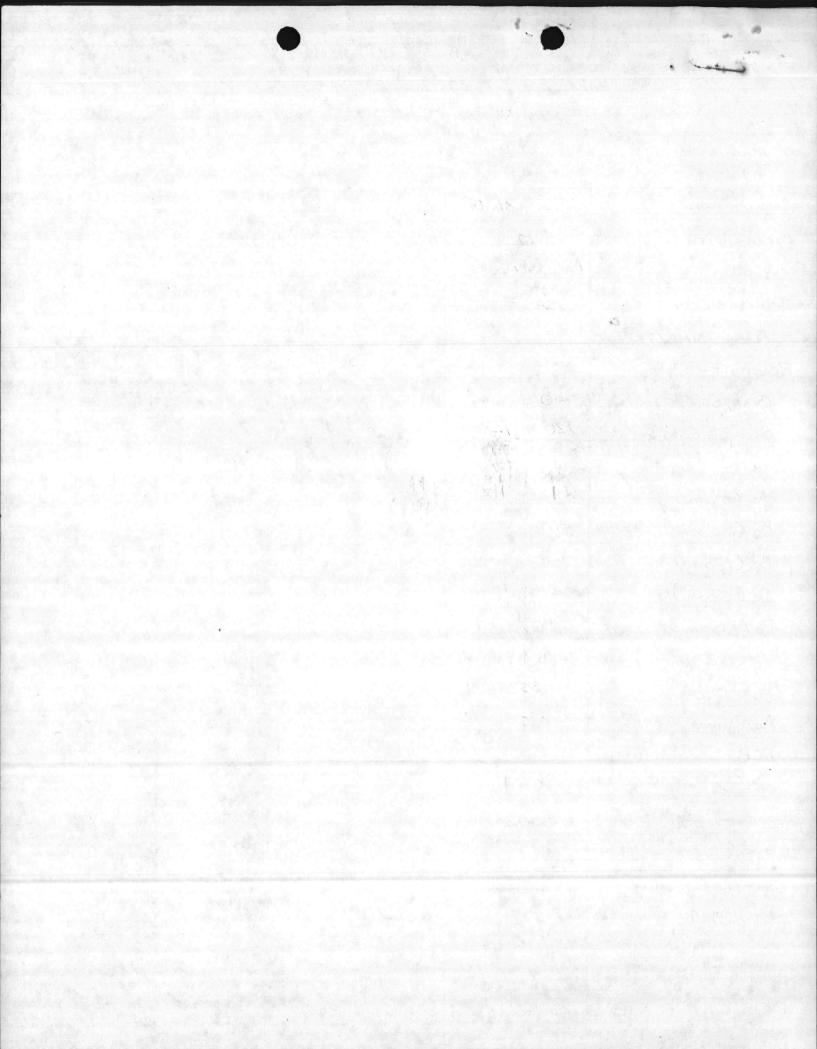
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- 466-	5- SAMPLE #85-	SAMEUL PB				CHAR CERTICS
					90.150.200 50 50	The Private Control
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## HAZARDOUS WASTES CHARACTERISTIC ANALYSIS

OF THE BARREL AT AMTRACS

PREMICES BY: E. A. BETZ

DATE: 19 JUNE 1986 SAMPLE # SAMPLE # 86-01 CHARACTERISTIC SAMPLE# 1,93 CORROSIVITY: CORROSIVE ~ 70°C 158°F IGNITABILITY FLASH POINT (140 F) REACTIVITY CHANIDE (250 mg/kg) < 0.5 . 120 mg/L BULFIDE (500 mg/kg) Toxicity (Limits) As (5 ppm). Ba (100 ppm) <10 Cd (Ippm) 12 Cr (5ppm) 40.5 Pb (5 ppm) 98 Hg (O, Zppm) 20,1 SE(1.0 ppm) 0.35 Aig (5ppm) 10,5 TOTAL ORGANIC <0.01 HALOGEN 5/5 RECOMMENDED EPA D002 HAZARDAUS WASTE TH# D006 COMMENTS: COTHER EPA HAZARDOUS WASTE D008 ID #)



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 1tr 5000 S-4/Maint of 24 Oct 85

Commanding General, 2d Marine Division, FMF Commanding General, Marine Corps Base, Camp Lejeune, North Carolina To:

(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)

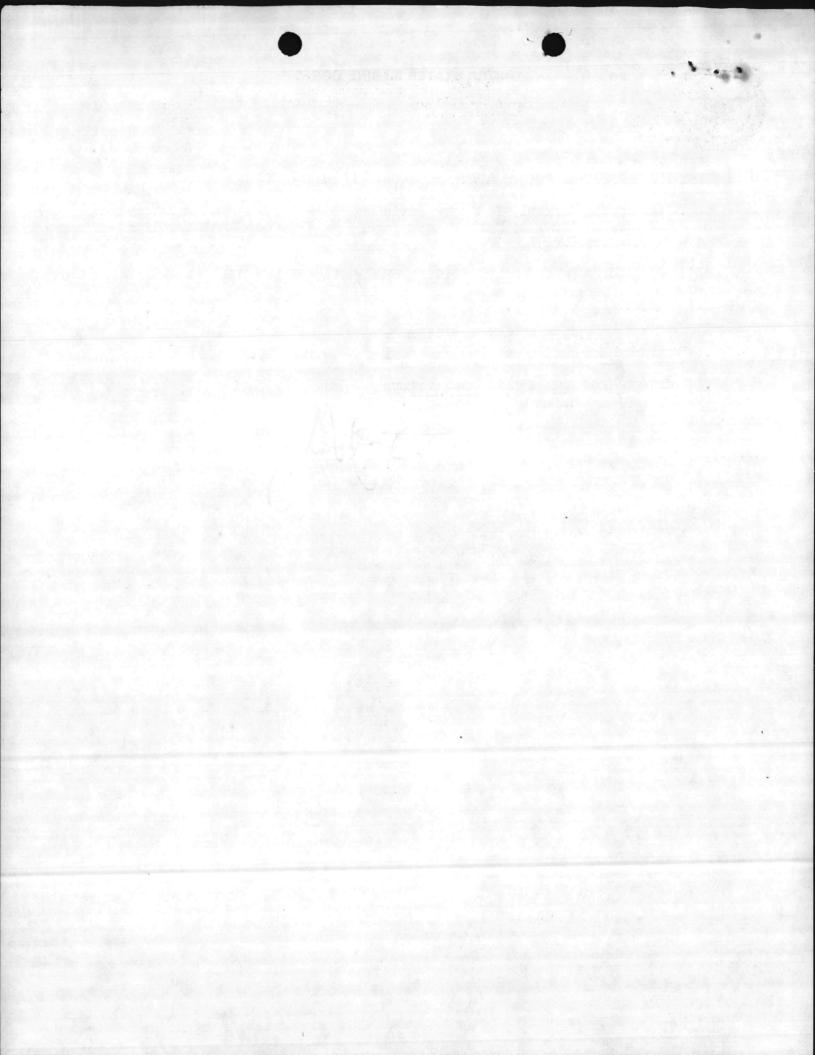
on 25 Oct 85

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.

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





2d Assault Amphibian Battalion 2d Marine Division, Fleet Marine Force Camp Leieune, North Carolina 28542

NREPLY REFER TO: 5000 S-4/Maint 2 4 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

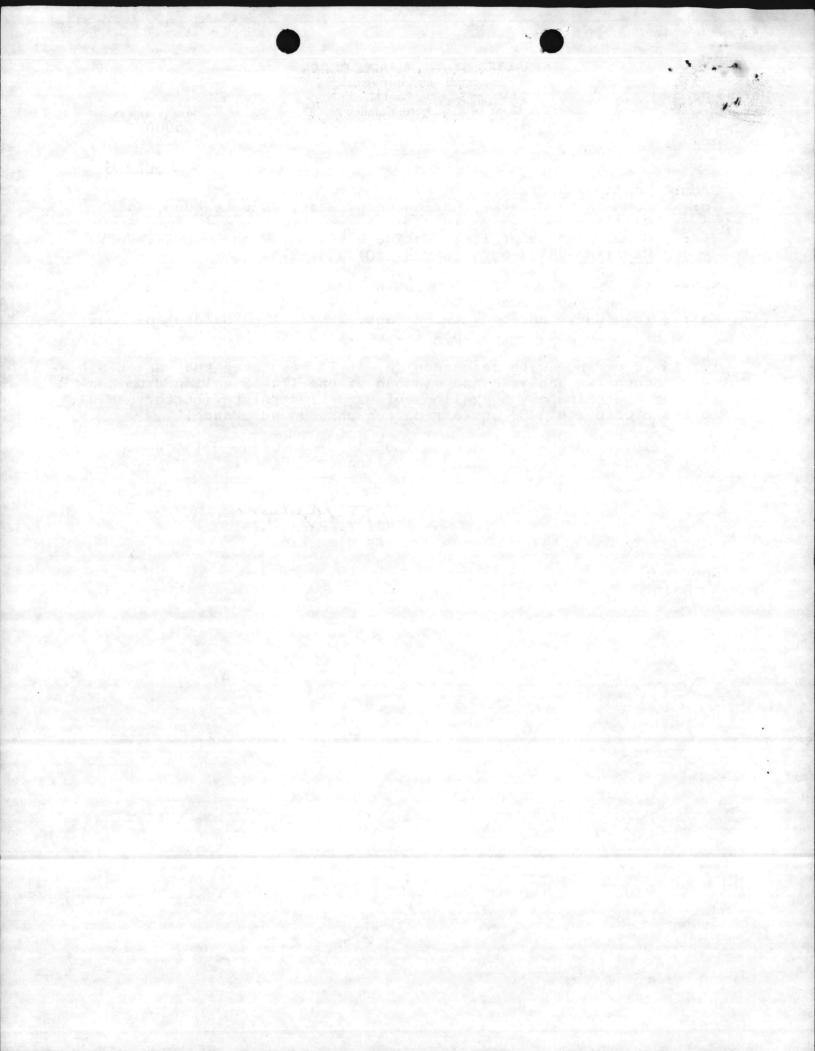
Maintenance Disposal Team of 15 Oct 85

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





2d Assault Amphibian Battalion 2d Marine Division, Fleet Marine Force Camp Lejeune, North Carolina 28542

IN REPLY REFER TO: 5000 S-4/Maint 2 4 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:

Conversation between Capt. TEDESCHI Bn MaintO and Base (a)

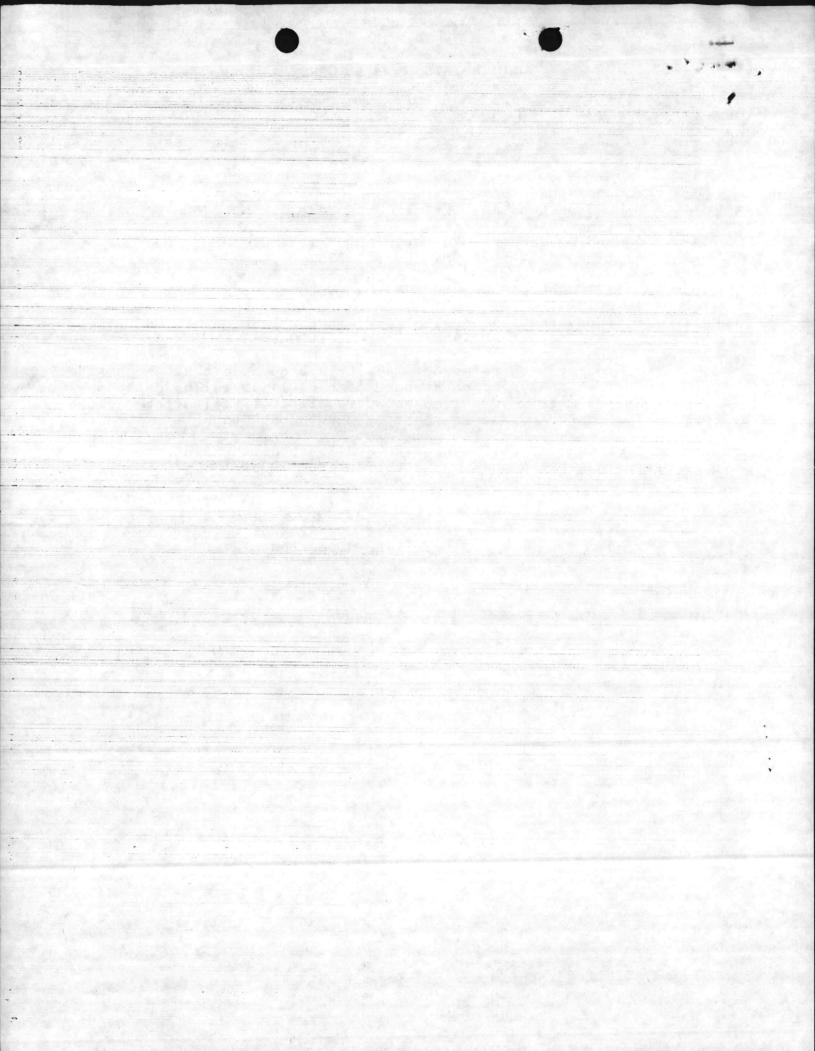
Maintenance Disposal Team of 15 Oct 85

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.

direction

Copy to: Bn MaintO





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 5-4/MAINT OF 24 OCT 85

ENCL: (1) JTC ENVIRONMENTAL CONSULTANTS, INC. REPORT \$252

- (2) HAZARDOUS WASTE CHARACTERISTIC ANALYSIS OF THE BARREL AT AMTRACS DATED 19 JUNE 1986
- (3) DRAFT LETTER TO DRAWN BMO
- 1. ENCLOSURE (1) AND (2) SHOW THAT THE BARREL LOCATED IN BLOG A-Z

  SAMPLE # 86-01,

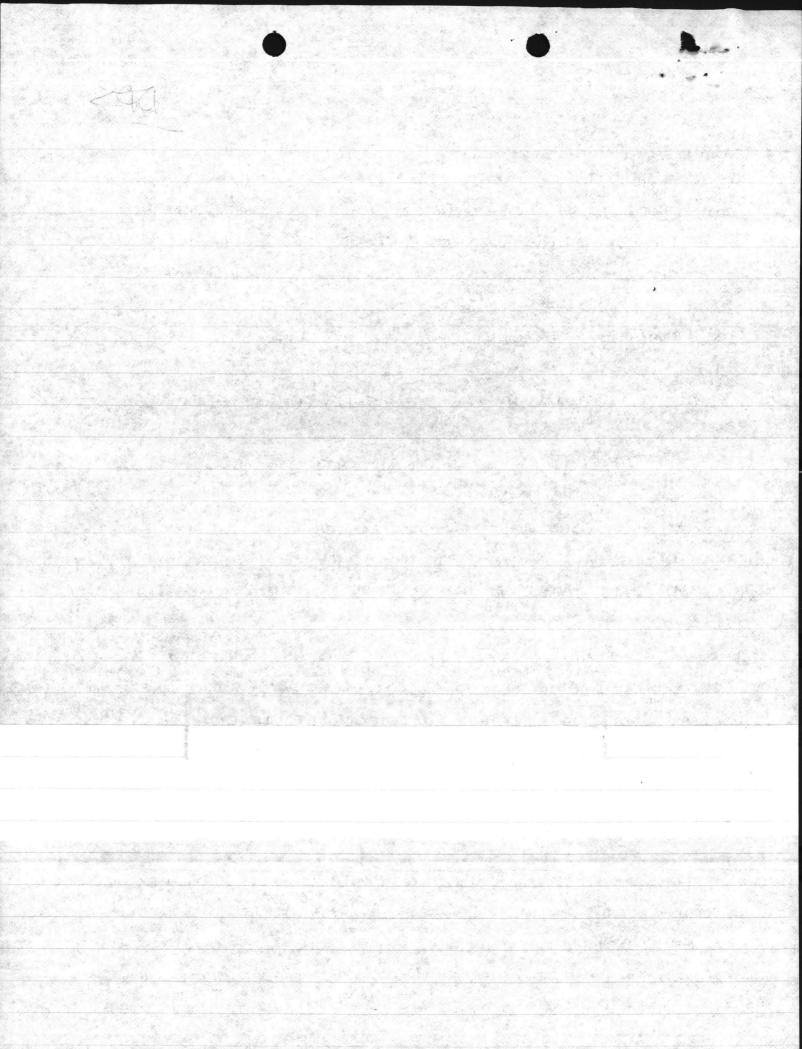
  AT COVETHOUSE BAY, IS INDEED A CORROSIVE WITH TOXIC LEVELS OF

  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

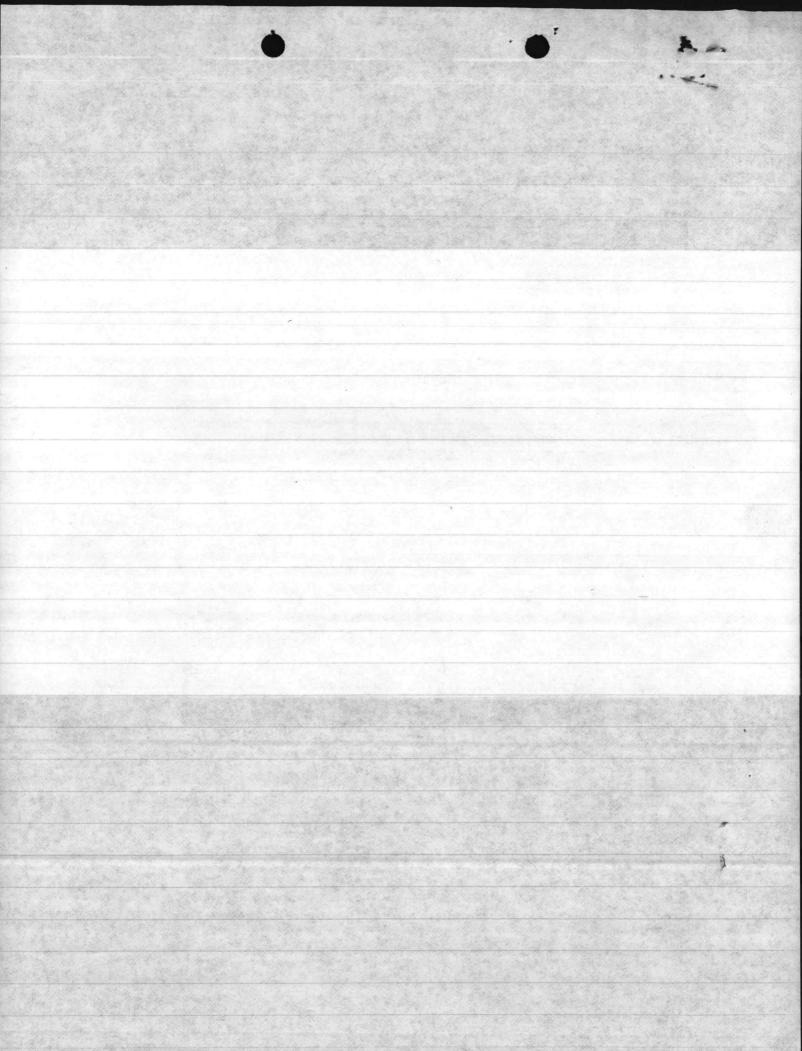
  ACID THAT HAD BEEN CONTAMINANTED DEL. WITH OIL
- 2. THE BASE IS PRESENTLY NEUTRALIZING BATTERY ACID AND DISCHARGING IT INTO THE SANITARY SEWER. ANALYSIS OF RE THE BATTERY ACID WOULD PROBABLY SHOW SIMILAR LEVELS OF CADIUM AND LEAD TO THAT FOUND IN THE BARREL AT AMTRACS. THEREFORE I WOULD RECOMMEND THAT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



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

3. BADE MAINTENANCE MAY HAVE TO MAKE SOME SLIGHT ALTERATIONS, TO THEIR NORMAL NEUTRALIZING PROB PROCEDURE TO ACCOMMADATE 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 PROMUMENTAL OBTAIN AN ACCURATE PH. HOW-EVER THESE PROBLEMS ARE SMALL WHEN ONE CONSIDERS THE THROUGH EXPENSE INVOLVED IN DISPOSING OF THE BARREL THREW A HAZARDOUS WASTE CONTRACT.

Elizabeth a Bety



23 June 86

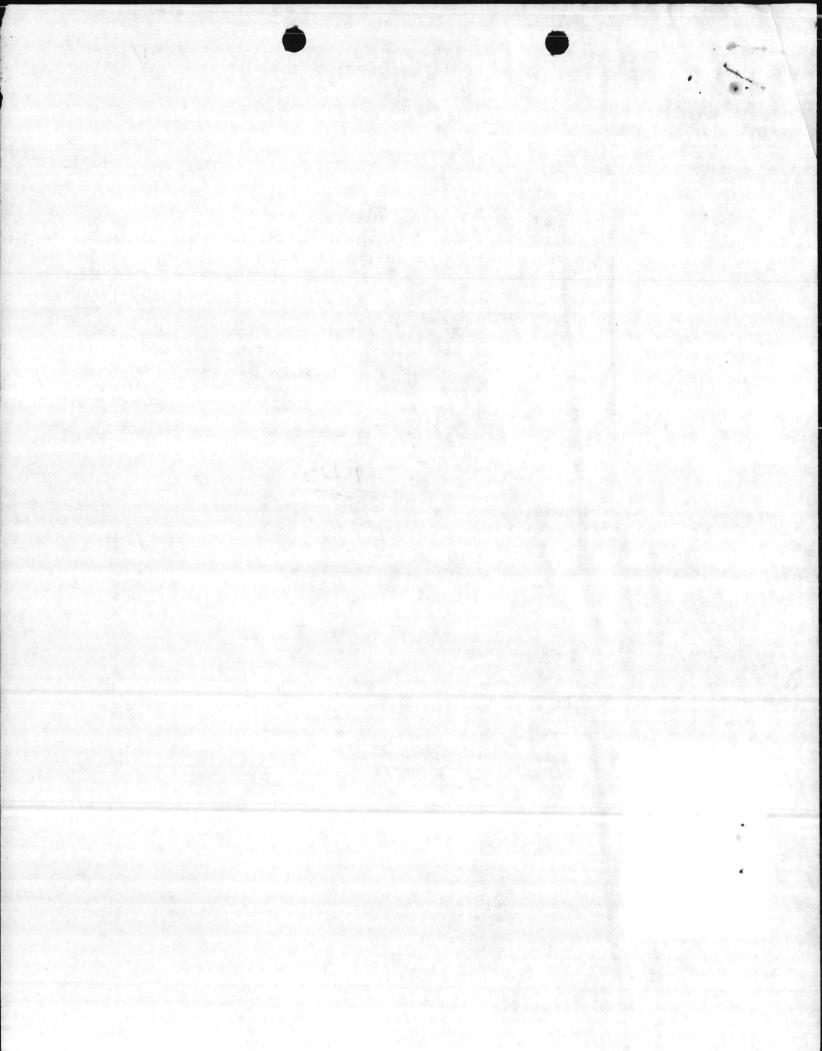
MEMO TO THE RECORD

ON THE 23th OF JONE 86, (Q) OBIS, I CONTACTED MGYSET KAUP, DIVISION HMOR AND INFORMED HIM OF THE CONTENTS OF THE BARREL Q 6th MARINES BICK POR. THE BARREL WAS SAMPLED ON GMAREG AND THE LAB RESULTS SHOWED THAT THE CONTENTS WERE A MIXTURE OF OF OUR WATER & electrolite AND THE CONTENTS DID NOT SHOW HW CHAPACTERISTICS. I ASKED TOP KAUP TO PASS ON THE INFORMATION TO CAPT. FITEGERALD (Q) GET WAR. I ARRANGED 11th 20ADS + GROWDS (MR. DAVIDSON) FOR THE CONTENTS TO BE PICKED UP INFO THE OIL PICKUP TRUCK.

DANNY BECKER

23JUNE 86

BARREL



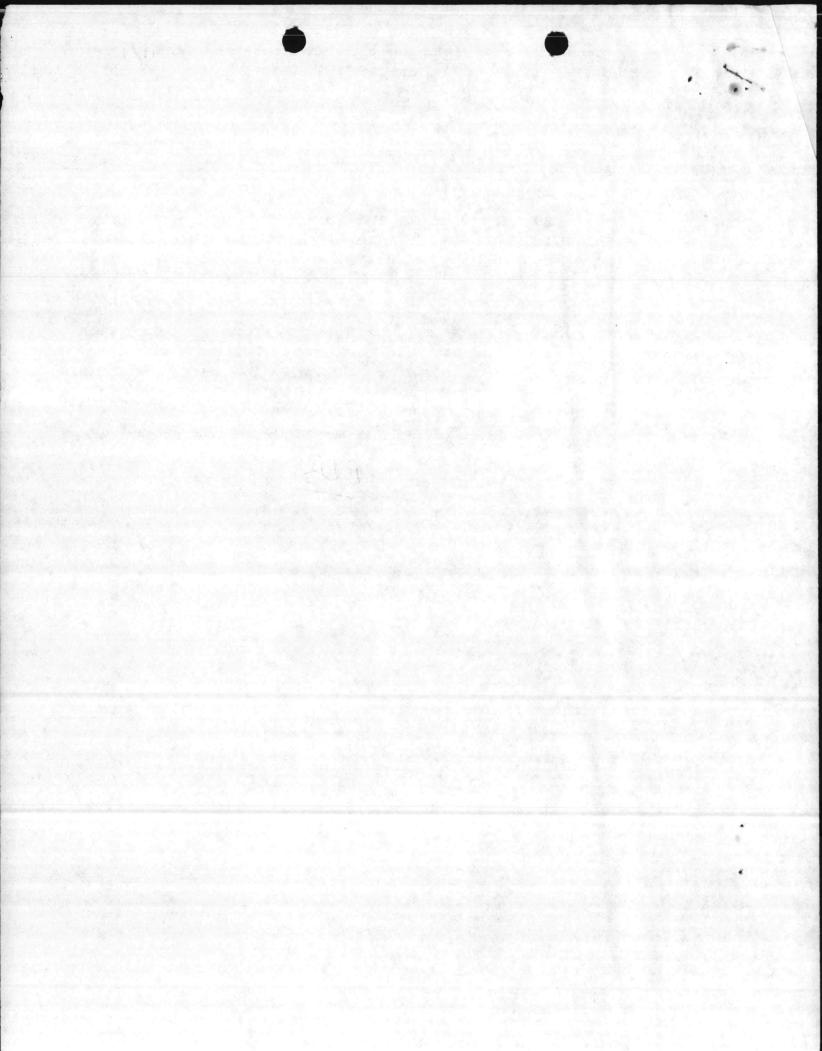
23 June 86

MEMO TO THE RECORD

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DANNY BECKER

23June 84



To have and Prease Advise these people waste out see Bets better Notify Home Bets after completels. Notify Home Bets after completels. Notify Home Bets after completels. The Both Home Bets after completels.

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 BLOG 1206

REF. (a) CO, LOTH MAR REGT LTR 6240 5-4 OF 9 DEC 85

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

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

(3) DRAFT LETTER TO

1. ENCLOSURE (1) AND (2) SHOW THAT THE BARREL WEATER AT

BLOG 1206 IS A MIXTURE OF OIL, WATER AND ELECTROLYTE. THE

BARREL HAS TWO LAYERS, AN OILY ONE AND AN A WATER WAYER

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 IGNITIBLE.

ITS LEVELS OF CHANIDE AND SULFIDE ARE NOT HIGH ENOUGH TO

BE CONSIDERED REACTIVE. THE DAY WAYER HAD NO TOXIC

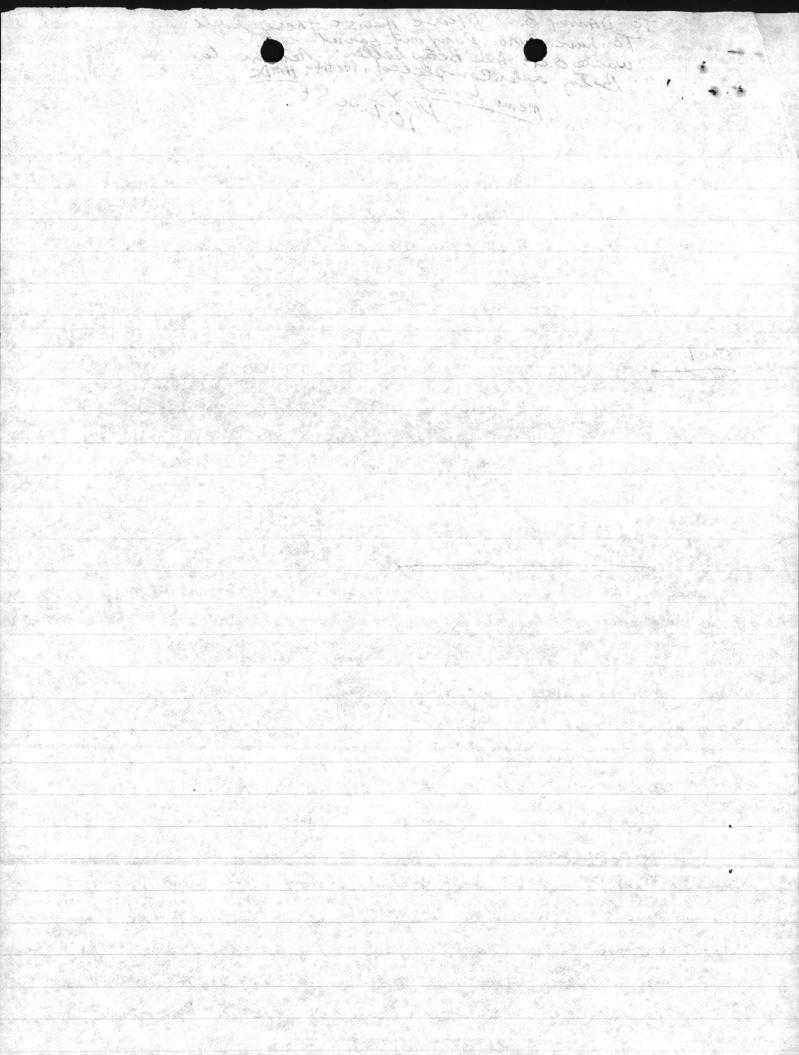
LEVELS OF METARS. THE TOTAL ORGANIC HASOI HALOGEN'S PRESENT

WAS ONLY 0.04%, WHICH IS APPROXIMATELY 400 PPM, AND

THEREFORE NOT ABOVE THE HALOGEN LIMIT FOR FUEL. THE OILY

LAYER HAS NO TOXIC LEVELS OF METALS. POWERS THE WATER

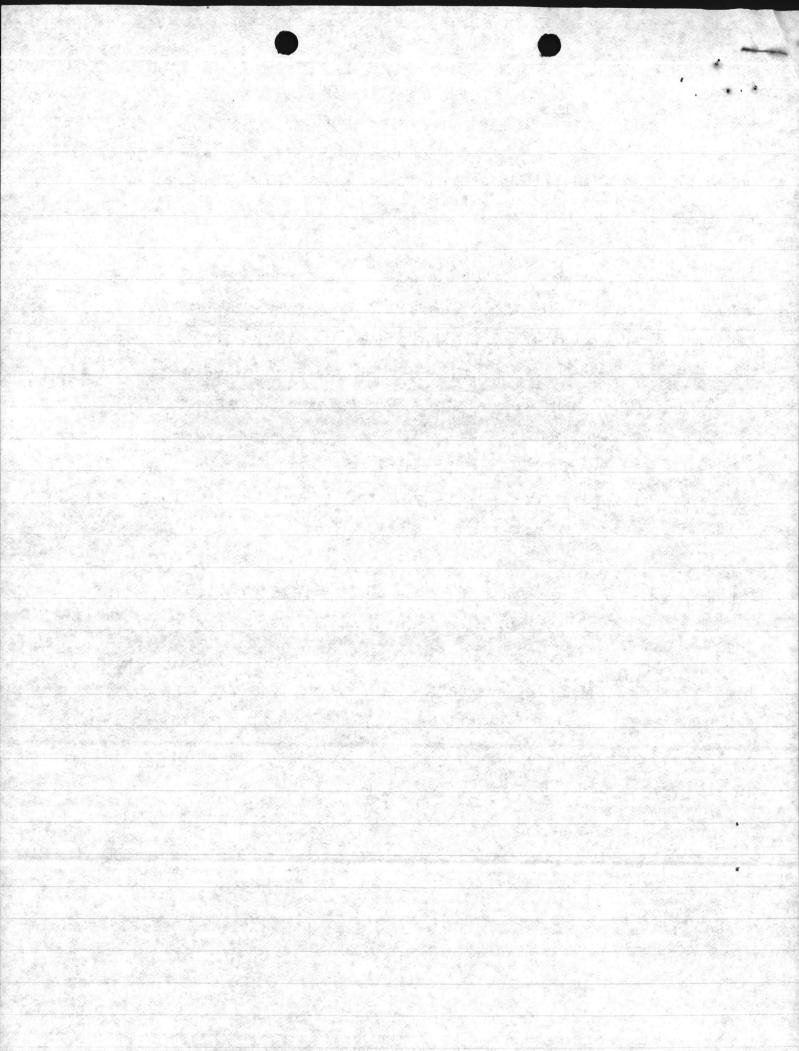
HAYER HAS IS TOXIC FOR CADMIUM (2.08 mg/L). THEREFORE



BUT AT A LOWER LEVEL THEN THAT FOUND AF 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 SHOTER WOULD BE DILUTED TO <5 Ppb.
- 3. HOWEVER, IF THE BASE IS SEGREGATING ITS WASTE OIL DISPOSING IN WOULD HAVE TO RECOMMEND DISPOSES OF THIS BARREL INTO THE OFF-SPECIFICATION USED OIL TANK OR HAZARDUS WASTE FUEL TANK. THE WATER CONTENT WOULD NOT BE NOTICED IF IT WERE MIXED WITH THE OIL FROM OIL AND WATER SEPARATORS;

Elizabeth a Boty.





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:

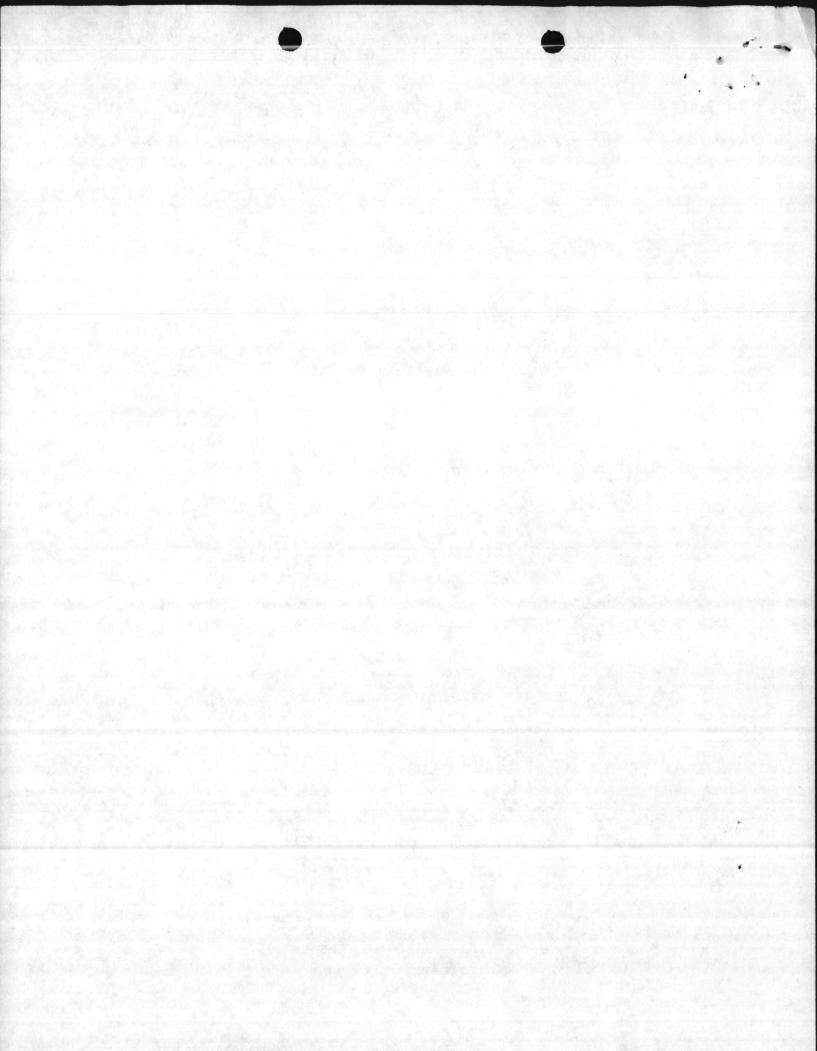
JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

APRIL 23, 1986

Ann E. Rosecrance Laboratory Director



JTC Environmental Consultants, Inc.

Location: Comp Lejeure	Date of Receipt: 3/18/86 Turnaround: Noutine	
Date: 4-23-86 Report No. 252	_ to Naval Facilities Engineering Command, Norfolk, V	
JTC Data Report No. 86-209 Table_		

NAVY SAMPLE ID	JTC	ANALYSIS PARAMETER							
	SAMPLE	PH	Cyanide mg/kg	Sulfide mg/L	Flash point	TOX *			
86-01	12-2318	1.93	<0.5	120	Hame at	<0.01			
86-02	12-2319	5.50	<0.5	310	42	5.77	1		
86-03	12-2320	3.58	1.7	460	>100	0.04			

<sup>\*</sup> Test according to ASTM D808

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## JTC Environmental Consultants, Inc.

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

JTC Data Report No. 86-209 Table 2

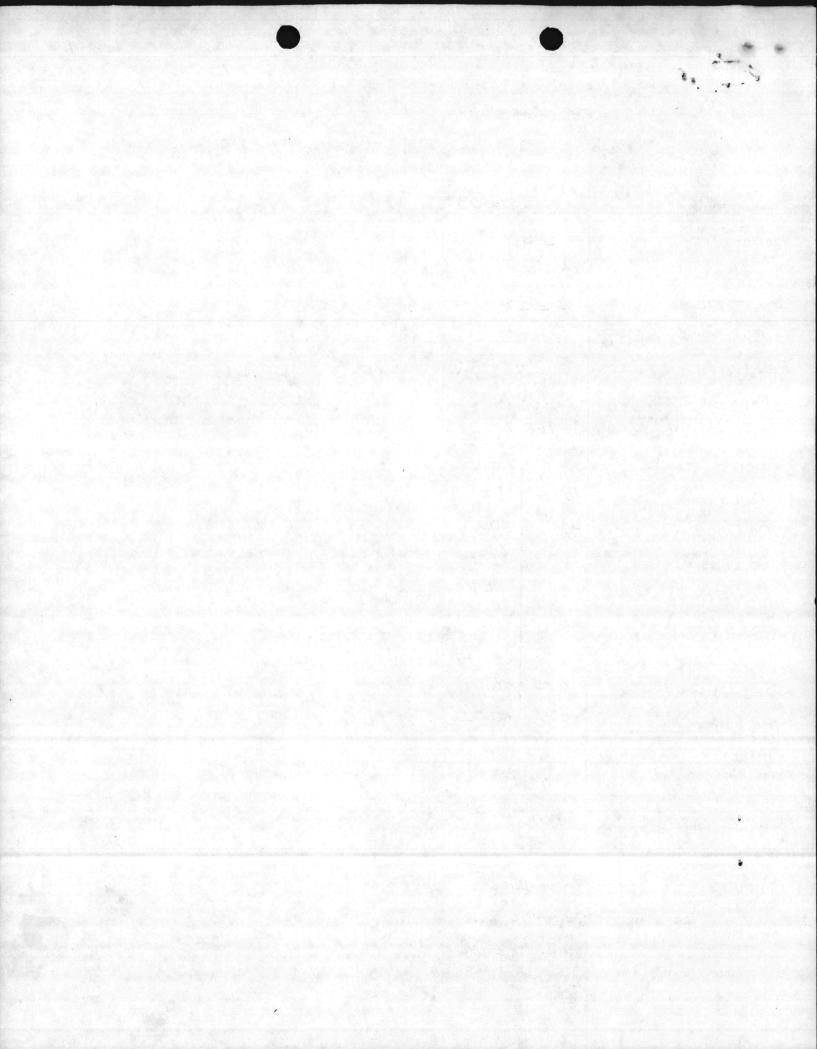
NAVY	JTC				ANALYSIS	PARAMETER	TER				
SAMPLE	SAMPLE	As	ва	Cd	Cr	Pb .	Hg	Se	Ag		
86-01	12-2318	1 mg/kg	<10 mg/kg	12 mg/kg	<0.5 mg/kg	98 mg/kg	<0.1 mg/kg	0.35 mg/kg	<0.5 mg,		
86-02	12-2319	<0.1 mg/	<4 mg/kg	< 0.1 mg/kg	<0.2 mg/kg	<2 mg/kg	<0.1 mg/kg	<0.1 mg/kg	0.4 mg/kg		
86-03 oil layer	12-2320	< 0.25 mg/kg	<10 mg/kg	0.3 mg/kg	<0.5 mg/kg	45 mg/kg	<0.1 mg/kg	<0.25 mg	<0.5 mg/kg		
86-03 water layer	12-2320	1200 49/2	<200 ug/L	2080 "9/2	1690 49/2	<100 ug/L	0.29 49/2	<10 mg/L	<20 mg/2		
					e kom Min						

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# HAZARDOUS WASTES CHARACTERISTIC ANALYSIS OF BARREL AT BLDG 1206

PREMICES BY: EUZABETH A. BER

DATE: 19JUNE 1986 SAMPLE # CHARACTERISTIC SAMPLE # 86-03 CORROSIVITY: 3,58 ACIDIC 7/00°C IGNITABILITY >ZIZ°F FLASH POINT (140°F) REACTIVITY 1. M mg/kg CHANIDE (250 mg/kg) SULFIDE (500 mg/kg) 012 LAYER WATER LAYER Toxicity (Limits) TOXIC As (5 ppm). 1,2 10.25 Ba (100 ppm) 20,2 <10 Cd (Ippm) 0.3 2.08 1.69 Cr (5ppm) <0.5 Pb (5 ppm) 20,1 <5 Hg (O, Zppn) <0.1 0.00029 SEC1.0 ppm) 40.25 20.01 <0,02 Ag (5ppm) <0.5 TOTAL ORGANIC 0.04 HALOGEN 5/6 Dool RECOMMENDED EPA HAZARDAUS WASTE IN# COMMENTS: THE OIL LAYER is NOT TOXIC ONLY THE WATER LAYER





2d Marine Division, Fleet Marine Force Camp Lejeune, North Carolina 28542-5500



G-4 ENGR 12 Dec 85

FIRST ENDORSEMENT on CO, 6th Mar Regt 1tr 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.

By direction

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

From: Companding Central, 2 Jacino Hiviston, File aoccespondence. 2. Points of contact at this holdquarters are brook Marapoti or 10ySgt Kaup. Slivision Engineers at extensions 2302/2755.



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

By direction

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(b) Phoneon prod Capt Wilderskin (others) and Todge King (Divenge)

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a. l. bet a ramo By direction

6240 S-4 9 Dec 85

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Via: Commanding General, 2d Marine Division, FMF (Attn: G-4/Engr)

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R. J. FITZGERALD By direction

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## 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 instral instruments

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

Hazardous Waste Characteristics Parameters Requested:

Volatile Organic Chemicals

Methyl Ethyl Ketone

Navy Contract Cover Under:

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

Turnaround: Two Weeks

PRINCE STATIST

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From: Commanding General, Marine Corps Base, Camp Lejeune

To: Defense Reutilization and Marketing Officer, Camp Lejeune,

North Carolina

Subj: LABORATORY ANALYSIS OF HAZARDOUS NATERIAL; 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 Nay 1986

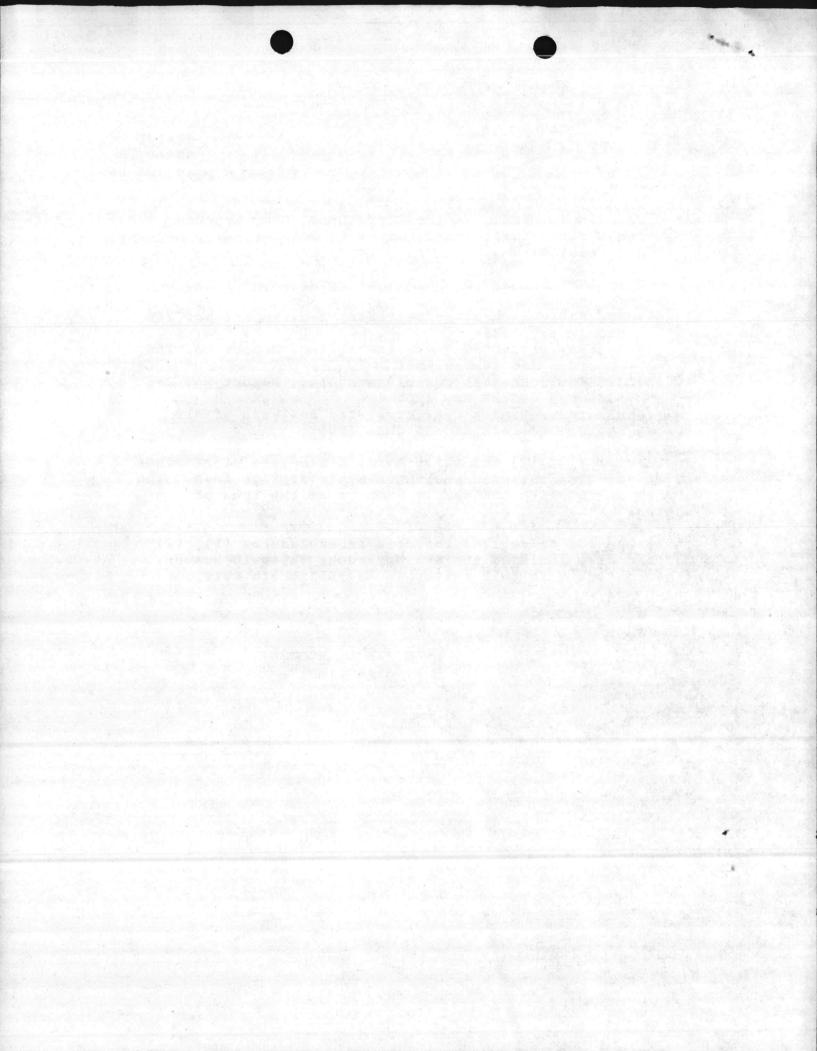
(3) JTC Environmental Consultants, Inc. Report No. 266 addendum dtd 29 May 1986

(4) Hazardous Wastes Characteristic Analysis of Air Station Barrels dtd 18 June 1986

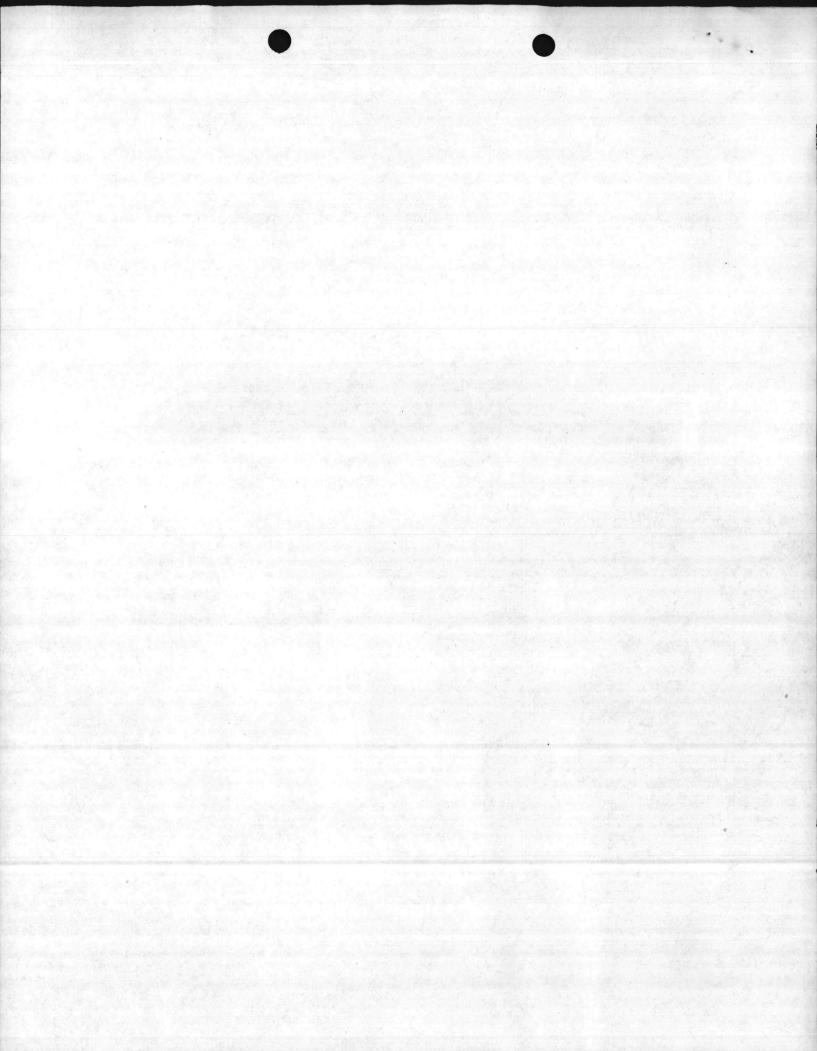
- 1. Enclosures (1), (2) and (3) provide dta on the eight drums stored at the Air Station's Hazardous Waste Storage Area. The drums were marked with the sample numbers at the time of collection.
- 2. Enclosure (4) summarizes the data in enclosures (1), (2) and (3) and also includes the EPA Hazardous Waste ID Number. Foint of contact with this matter is Ms. Elizabeth Betz, extension 5977.

JULIAN I. WOOTEN By direction

CO, NCAS NR



TO COMMAND AND AND AND AND AND AND AND AND AND	OPNAV 5216/158 (Rev. 7-78)	NDOW ENVELOPE MAY BE USED Formerly NAVEXOS 3789	detached from enclosures, unless otherwise indicated)
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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:

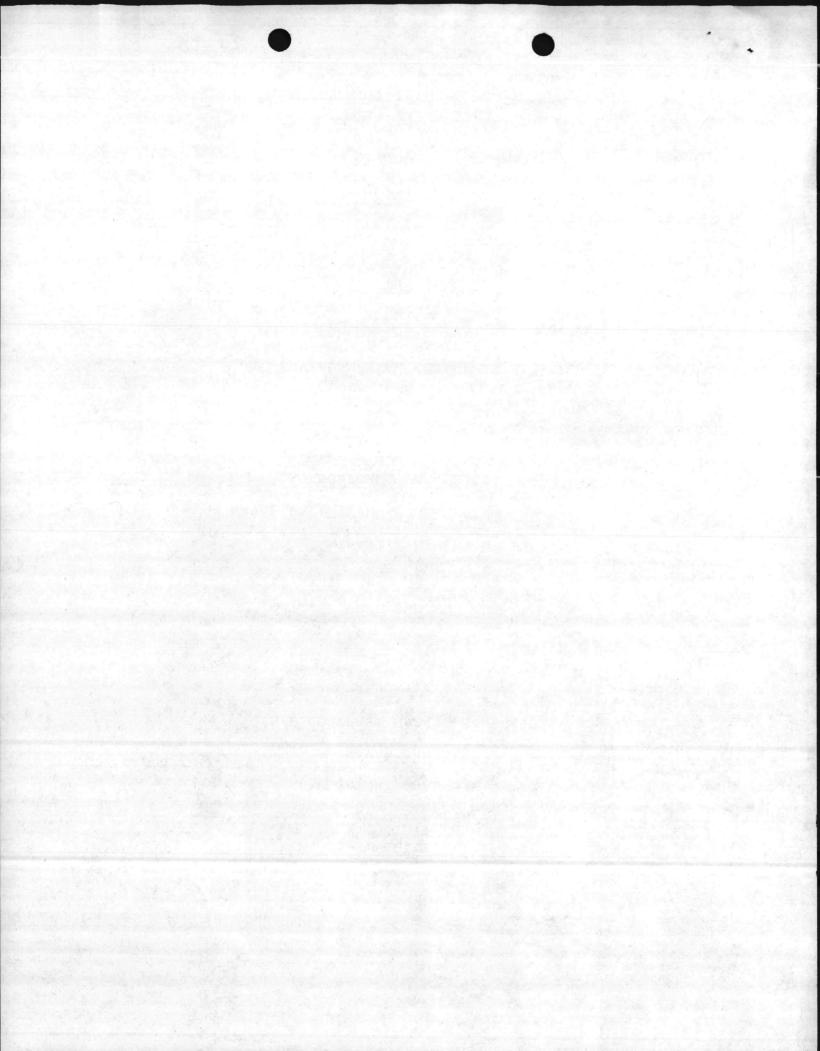
JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

May 14, 1986

Ann E. Rosecrance Laboratory Director

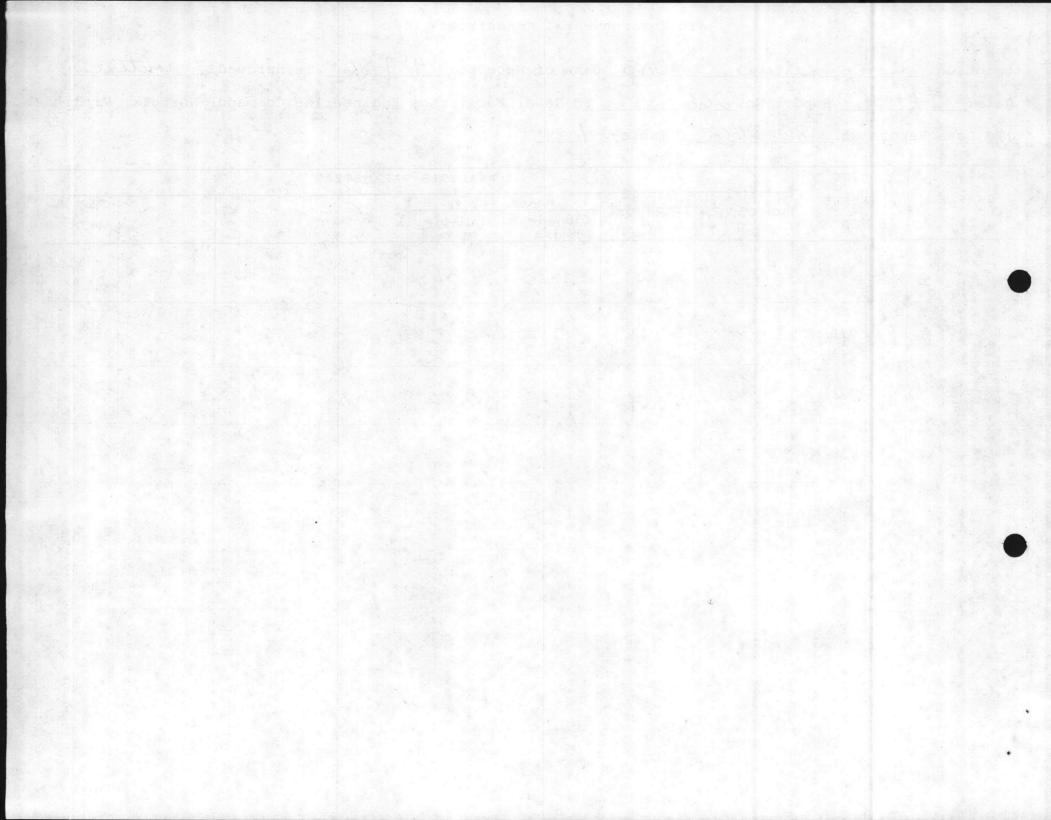


Location: Camp Legime, -MCAS Date of Receipt: 4-9-86 Turnaround: routine

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

JTC Data Report No. 86-260 Table /

NAVY	JTC		ANALYSIS PARAMETER								
SAMPLE	SAMPLE	Corrosivity p H	Flashpoint	React Cyanide mg/Kg	sulfide mg/kg						
86-5	12-2444	8,6	~70	<1.25	0,31						
86-6	1.2-2445	8.5	>100	<1,25	<0.02						
86-7	12-2446	8.8	>100	<1.25	40.02						
86-8	12-2447	8.7	>100	<1.25	<0.02			•			
86-9	12-2448	8.7	>100	41.25	<0.02						
86-10	12-2449	6.8	N 45	41.25	<0.02						
86-11	12-2450	8.9	>100	<1.25	40.02						
86-12	12-2451	7.9	28	<1.25	<0.02						



Location: Camp Legime, - MCAS Date of Receipt: 4-9-86 Turnaround: Noutine

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

JTC Data Report No. 86-260 Table 2-

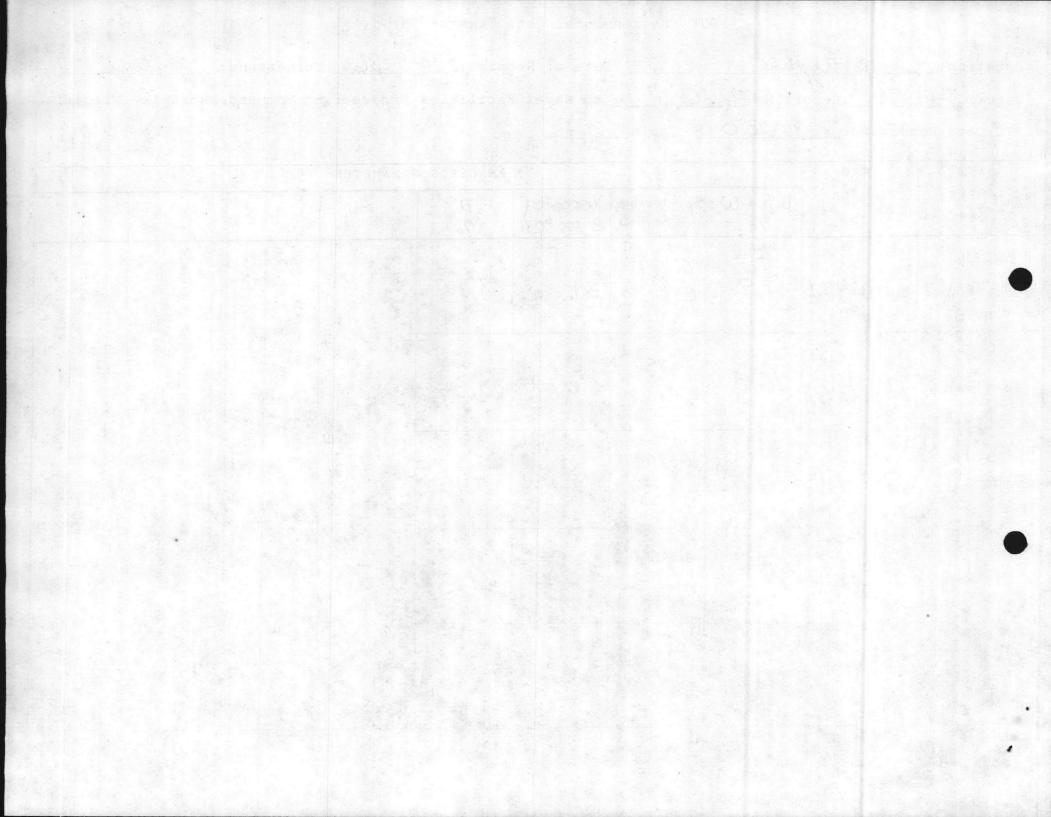
NAVY	JTC	ANALYSIS PARAMETER									
SAMPLE	SAMPLE	As mg 1 kg	Bamalka	Cd mg/kg	Cr mg/kg	Pb mg/kq	Hg	Se	Ag		
86-5	12-2444	<0.5	45	<0.12	9360	<0.12	mg /kg <0.1	<0.25	mg (k)		
86-6	12-2445	₹0.5	<b>&lt;</b> 5	<0.12	16,700	<0.12	<0.1	<0.25	<0.25		
86-7	12-2446	< 0.5	<5	<0.12	14,000	<0.12.	<0.1	≺0.25	<0.25		
86-8	12-2447	<0.5	<b>&lt;</b> 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	<b>&lt;</b> 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	<b>&lt;</b> 5	5.3	2720	1.2	0.79	40.25	<0.25		

	[17] [25] [26] [26] [26] [26] [26] [26] [26] [26	
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Date: 5-14-86 Report No. 266 to Naval Facilities Engineering Command, Norfolk, Virginia

JTC Data Report No. 86-260 Table 3

NAVY	JTC	ANALYSIS PARAMETER									
SAMPLE ID	SAMPLE ID	8.5.+W %	Sp. Gravity	Viscosity @ 100°C	70×						
86-16 OT Tank STI 61	12-2452	7.8	0.879 e 21.6°C	3.1 cst	0.13						
86-17 TT Tank STT 62	12-2453	16.5	0.887 @ 21.8°C	6.0 cst	0.34						
86-18 TT Tank STI 63	12-2454	30.0	0.909 e 22.1°C	6,8 cst	0.15						
●86-19 TT Tank 5TT 64	12-2455	15.0	0.891 e 22.2°C	5.2 cst	0.13						
86-20 TI Tank . STI 65	12-2456	8.5	0.860 e 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:

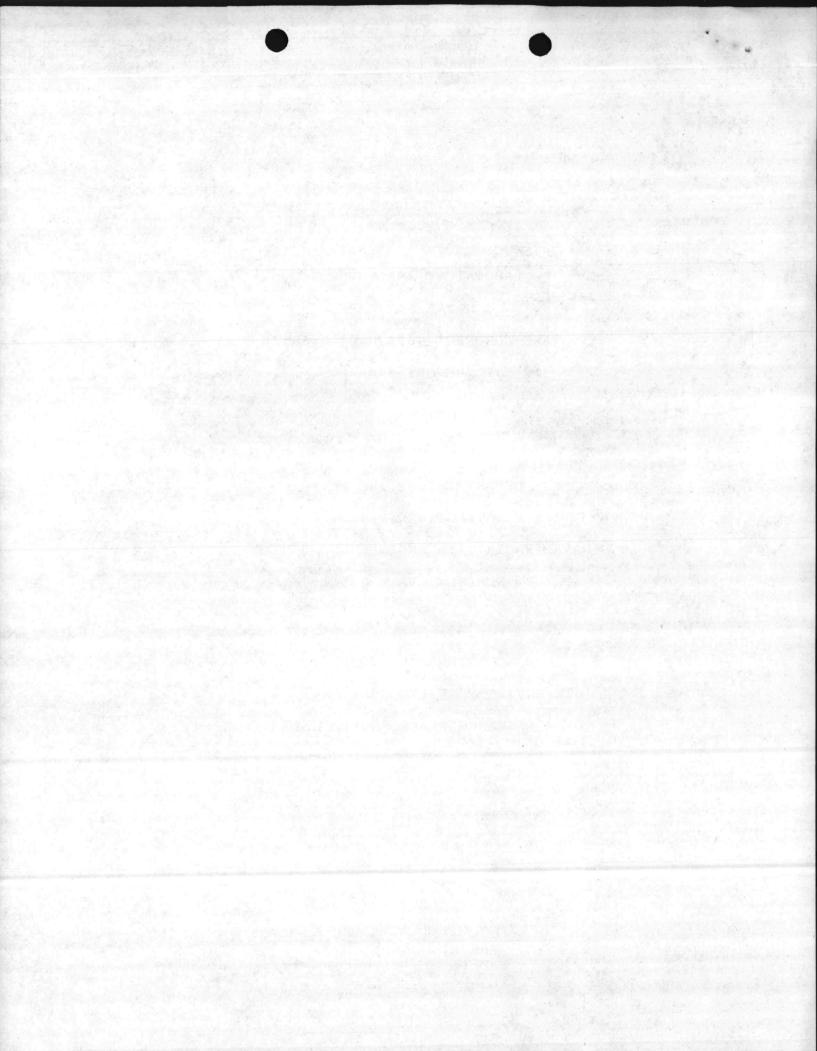
JTC ENVIRONMENTAL CONSULTANTS, INC.

4 RESEARCH PLACE, SUITE L-10

ROCKVILLE, MARYLAND 20850

MAY 16; 1986

Ann E. Rosecrance Laboratory Director



JTC Environmental Consultants, Inc.

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

JTC Data Report No. 86-260 Table |

NAVY	JTC		ANZ	ALYSIS PARAMETER	
SAMPLE	SAMPLE ID	PCB Mg/g			
86-5	12-2444				•
86-6	12-2445	<b>&lt;</b> 5			
86-7	12-2446	<b>&lt;</b> 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			

TOX only

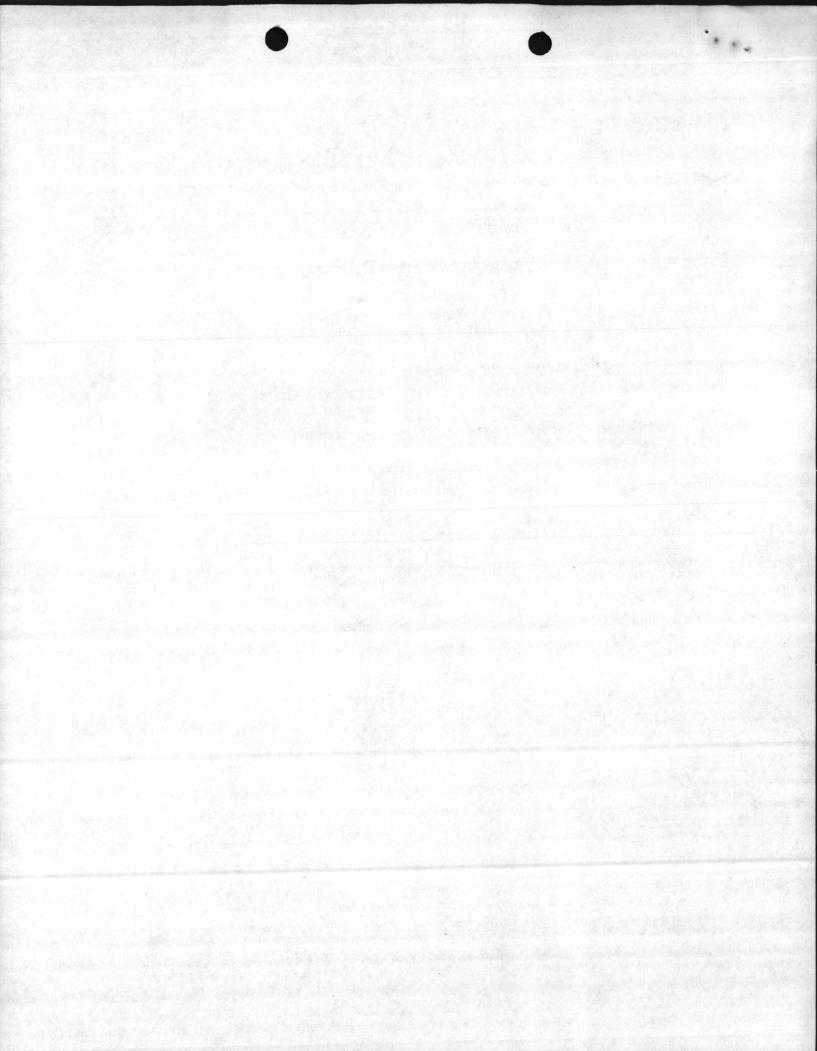
REPORT #266 Addendum A LABORATORY ANALYSIS ON NAVAL SAMPLES (A/E CONTRACT N62470-84-B-6932) JTC REPORT # 86-260

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

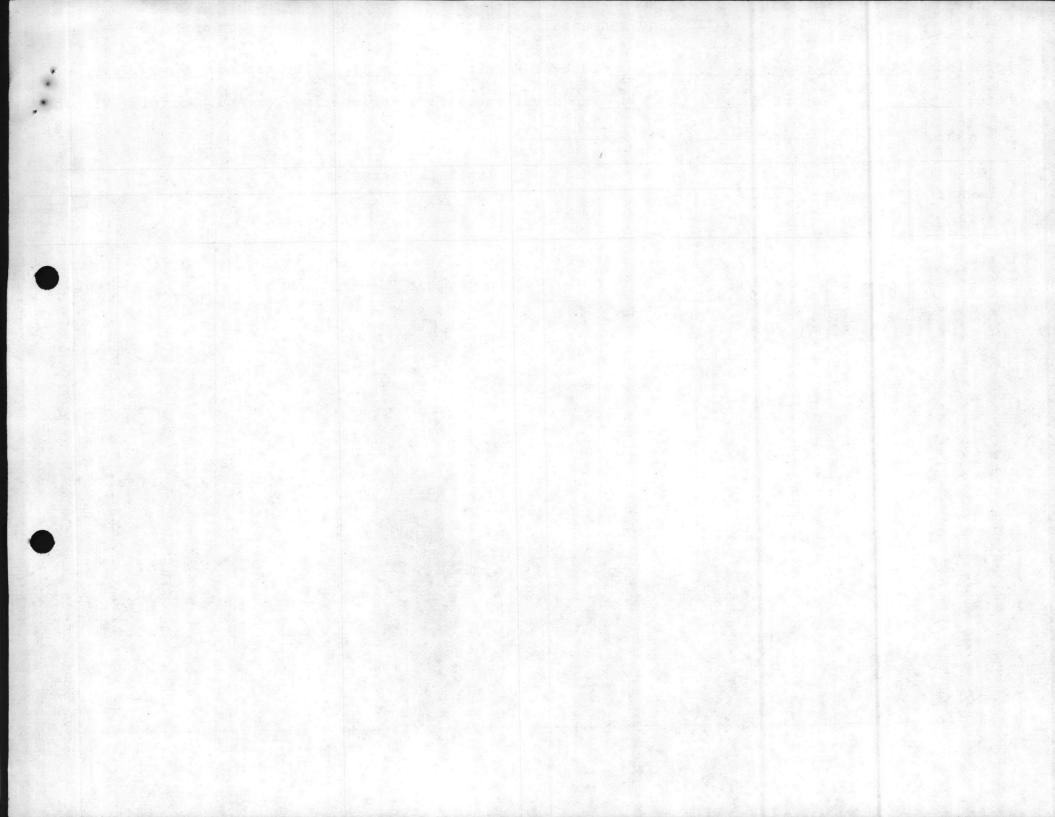
Laboratory Director



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

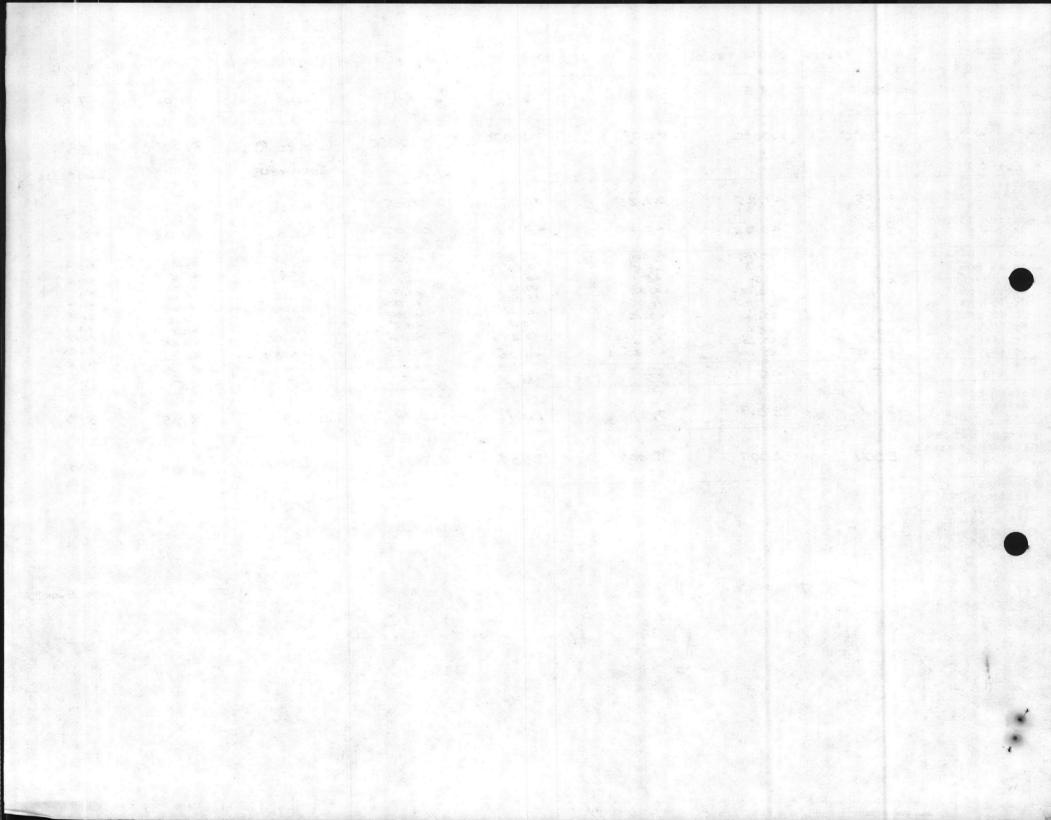
JTC Data Report No. 86-260 Table /

NAVY	JTC	ANALYSIS PARAMETER							
SAMPLE ID	SAMPLE ID	70X							
<b>%</b> -5	12-2444	0.17							•
86-6	12-2445	80.9	-						
86-7	12-24-46	0.21			T				
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	tati						



CHARACTERISTICS	SAMPLE #86-05	SAMPLE #86-06	SAMPLE #86-07	SAMPLE #86-08	SAMPLE #86-09	SAMPLE #86-10	SAMPLE #86-11	#86-12
Corrosivity:	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 °€ TGNITABLE	>100°C	28°C
Reactivity Cyanide (250mg	<1.25	<1.25	41.25	<1.25				IGNITABLE
/kg) Sulfide (500mg		23	21,23	71.20	<1.25	41.25	<1.25	<1.25
/kg)	0.31	40.02	40.02	<0.02	<0.02	<0.0Z	<0.02	<0.02
Toxcity-Limits (5 ppm) 100 ppm) (1 ppm) (5 ppm) (5 ppm) (6 ppm) (1 (0.2 ppm) (1 (0.2 ppm) (1 (0.2 ppm) (2 (1 (0.2 ppm)) (3 (5 ppm) (4 (5 ppm)) (5 ppm) (5 ppm)	MS/K9 40.5 45 40.12 9360 40.12 40.1 40.25 40.25	mg/kg <05 <5 <0.12 16,700 <0.12 <0.1 <0.25 <0.25	mg/kq <0.5 <5 <0.12 14,000 <0.12 <0.1 <0.25  1 <0.25	10.12 14,000 20.12 14,000 20.12 40.13 40.25	ms/kg 20.5 26 20.12 12,200 20.12 20.1 20.25 20.25	M5/k9 <0.5 <5 <0.68 6320, 0.48 <0,1 <0.25 <0.25	mg/kg <0.5 <5.012 7360 <0.12 <0.1 <0.25	mg/kg 40.5 46 40.12 2720 1.12 0.79 40.25 40.25
	<5	<5	<5	<5	45	<5	<5	25
Total Organic Halogen %	0.17	80.9	0.21	7.07	0.17	(3.)	8.95	3.90
Recommended EPA Hazardous Waste ID#	D007 ·	D007	D007	D007	D007	D001	D007	D001
Comments: Secondary EPA Ha\zardous Waste ID #'s which should be shown						D007		
						l E	Prepared by:	Date:18 <b>Jun 8</b>

Elizabeth Betz ENCLOSURE (2



# Analysis Request

Samples: 86-5 86-6 86-7 86-8 86-9 86-10 86-11 86-12

Parameters Requested: Hazardous Waste Characteristics

Ignitibilty Corrosivity Reactivity

Toxicity (EP Metals Only)

PCB Total Halogen

Samples Takkn By: Water Quality Control Laboratory, NREAD, MCB, Camp

Le jeune, 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 011) 3

2. Samples #86-22-25 (HBWaste Oil) 4

3. Samples #86-5-12 (MCAS Barrels) &

4. Samples #86-16-20 (TT Waste 0il) 5

MASSING START BUTTELLE STATE

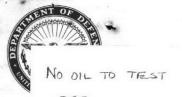
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### UNITED STATES MARINE CORPS

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

IN REPLY REFER TO: 5100

CO OrdMaint CO 1tr 5100 6/001 of 27 Jan 86

To:

Commanding General, Marine Corps Base, Camp Lejeune, NC

(Attn: AC/S Facilities/Director National Resources & Envviron-

mental Affairs Division)

Subj: REQUEST FOR PCB CERTIFICATION

1. Forwarded.

r. J. ROMANETZ

By direction

24 FEB 1986

From: AC/s Facilities To: NREAD

1. Forwarded,

sulh

From: NREAD

To: Water Quality Central LAB

24 Feb 86

1. Please collect these SAMPLES NLT 15 MAY86.

D. Starpe



POP-THE BUILD OF BUE 1887 DE AVELON COM

on CO General to select the CO 4th selection of 25 Jan 25

THE CHEST SHOP WAS BUILDING TO SHOW THE



# 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

FIRST ENDORSEMENT on CO OrdMaint CO 1tr 5100 6/001 of 27 Jan 86

From: To:

Commanding General, 2d Force Service Support Group (Rein)

Commanding General, Marine Corps Base, Camp Lejeune, NC

(Attn: AC/S Facilities/Director National Resources & Envviron-

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(mental office to Division)

SALT TO BE OUT OF THE PRESENCE OF THE POLICE

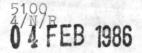
COLUMBER SOL



### **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:



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 & Environ-

mental 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.

By direction

Copy to: CO. OrdMaint Co PRINCIPLIANCE CONTROL OF THE CONTROL OF T

# 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 Environmental Affairs Division)

Via: Commanding Officer, 2d Maintenance Battalion (Attn: S-4)

Subj: REQUEST FOR POLYCHLORINATED BIPHENYLS (PCB) CERTIFICATION

Ref: Defense Environmental 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

