

FILE FOLDER

DESCRIPTION ON TAB:

6241/1

Outside/inside of actual folder did not contain hand written information

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Confidential Records Management, Inc.

New Bern, NC

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SECNAVINST 5215.5B, Part 11, Chap
Par 11010(1)(b)
RETENTION - 2 YEARS



6241/1
NREAD
7 August 1985

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

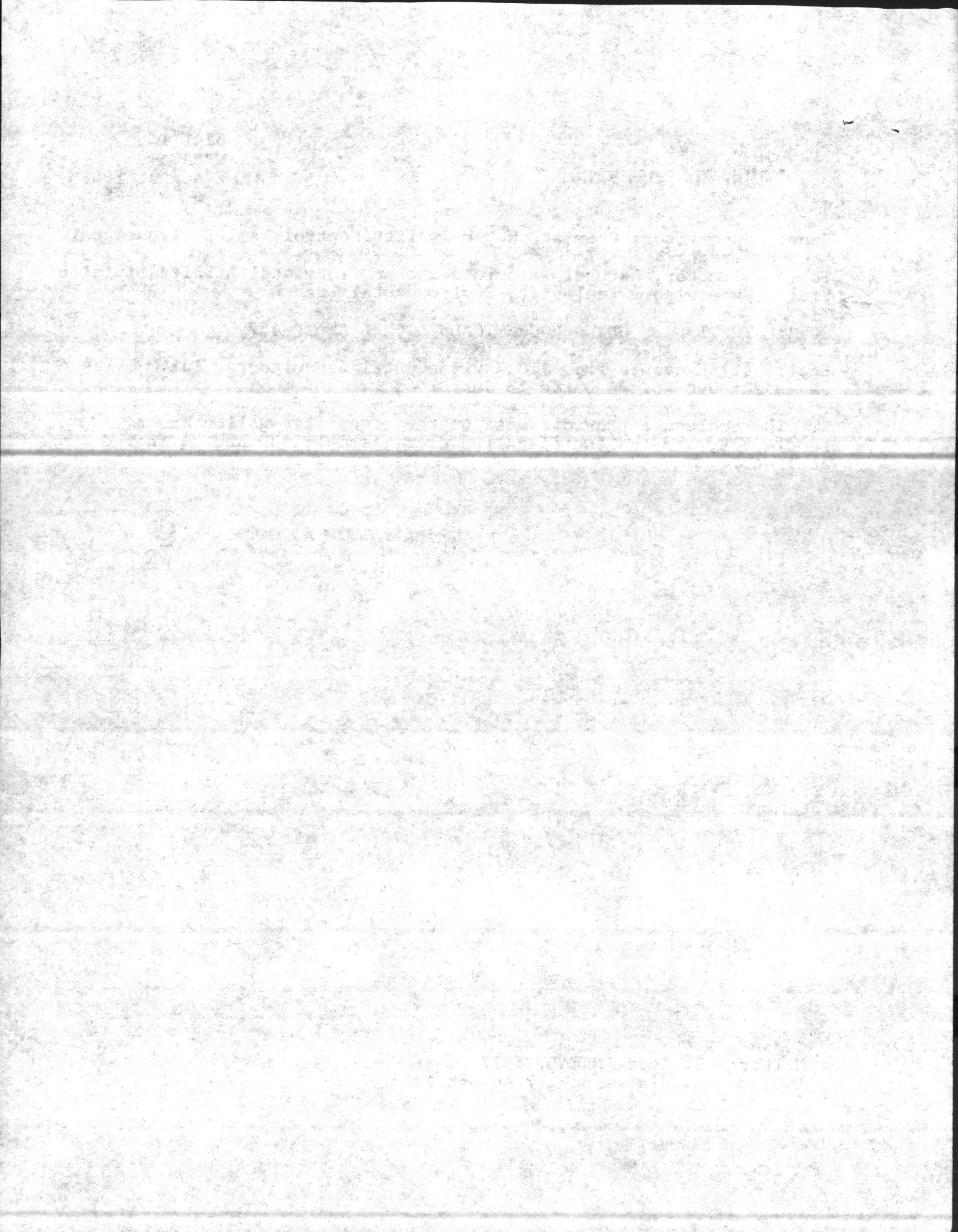
Subj: TESTING OF UNKNOWN CHEMICALS STORED AT TP-457

Encl: (1) Excerpts from JTC Environmental Consultants, Inc.
Report No. 54 Dated 28 June 1985

1. The enclosure provides data on the seven five-gallon drums, sample #29, and the two 55-gallon drums, sample #30 and 31, stored at TP-457.

ELIZABETH A. BETZ

Writer: E. Betz, NREAD, 5977
Typist: A. Blackstock, 7 August 1985



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 #29 is a composite of the seven five-gallon drums stored at TP-457. Each was labelled with the #29 when they were sampled.

b. Navy sample ID #30 and 31 are from the two 55-gallon drums stored at TP-457. The barrels were labelled with the sample numbers when they were sampled.

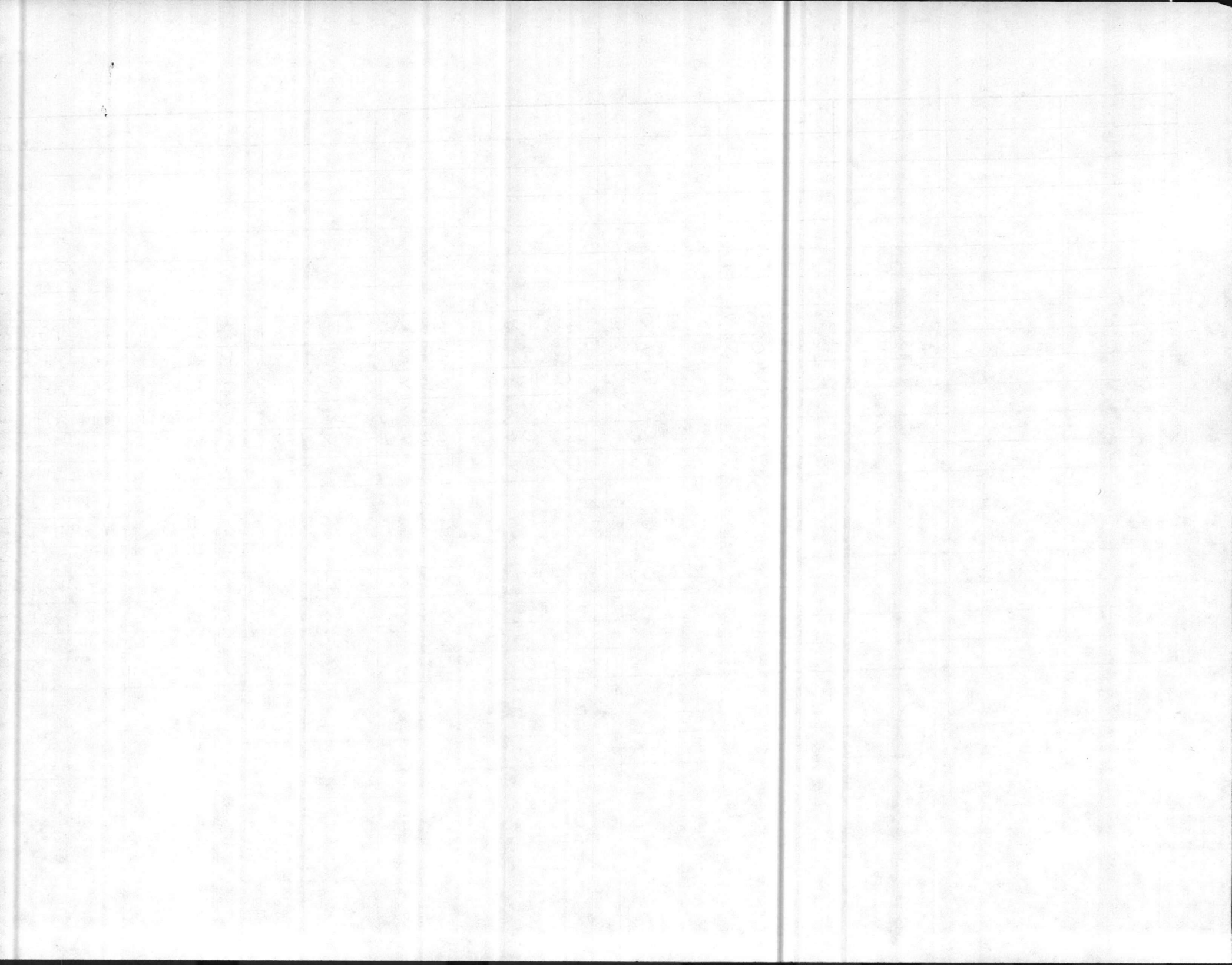
THE STATE OF CALIFORNIA
COUNTY OF [illegible]

[illegible text]

[illegible text]

[illegible text]

[illegible text]



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
#23A 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 mg/kg
#23B 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 mg/kg
#27H Bldg 251	12-0922	<50 ug/L	1170 ug/L	2440 ug/L	65 ug/L	9850 ug/L	<1.0 ug/L	141 ug/L	<50 ug/L
#27I Bldg 251	12-0923	290 ug/L	<1000 ug/L	680 ug/L	13,100 ug/L	3,120 ug/L	<1.0 ug/L	1960 ug/L	<50 ug/L
#28J 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 mg/kg
#28K Landfill	12-0925								
#28L Landfill	12-0926								
#29 Bldg TP457	12-0927	*	*	*	*	*	*	*	*
#30 Bldg TP457	12-0928	<50 ug/L	7800 ug/L	<25 ug/L	<50 ug/L	62.5 ug/L	22 ug/L	<20 ug/L	<50 ug/L
#31 Bldg TP457	12-0929	<50 ug/L	3130 ug/L	<25 ug/L	185 ug/L	21 ug/L	<1.0 ug/L	<20 ug/L	<50 ug/L
#320 Bldg TP451	12-0930	+	+	+	+	+	1925	+	+
#32P Bldg TP451	12-0931	<50 ug/L	1295 ug/L	<25 ug/L	63,600 ug/L	6250 ug/L	3.7 ug/L	<20 ug/L	<50 ug/L
#32Q Bldg TP451	12-0932	<50 ug/L	1535 ug/L	130 ug/L	93,900 ug/L	40,200 ug/L	7.9 ug/L	<20 ug/L	<50 ug/L

* sample depleted
 + sample requires redigestion prior to completion of analysis



6241/1
NREAD
7 August 1985

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

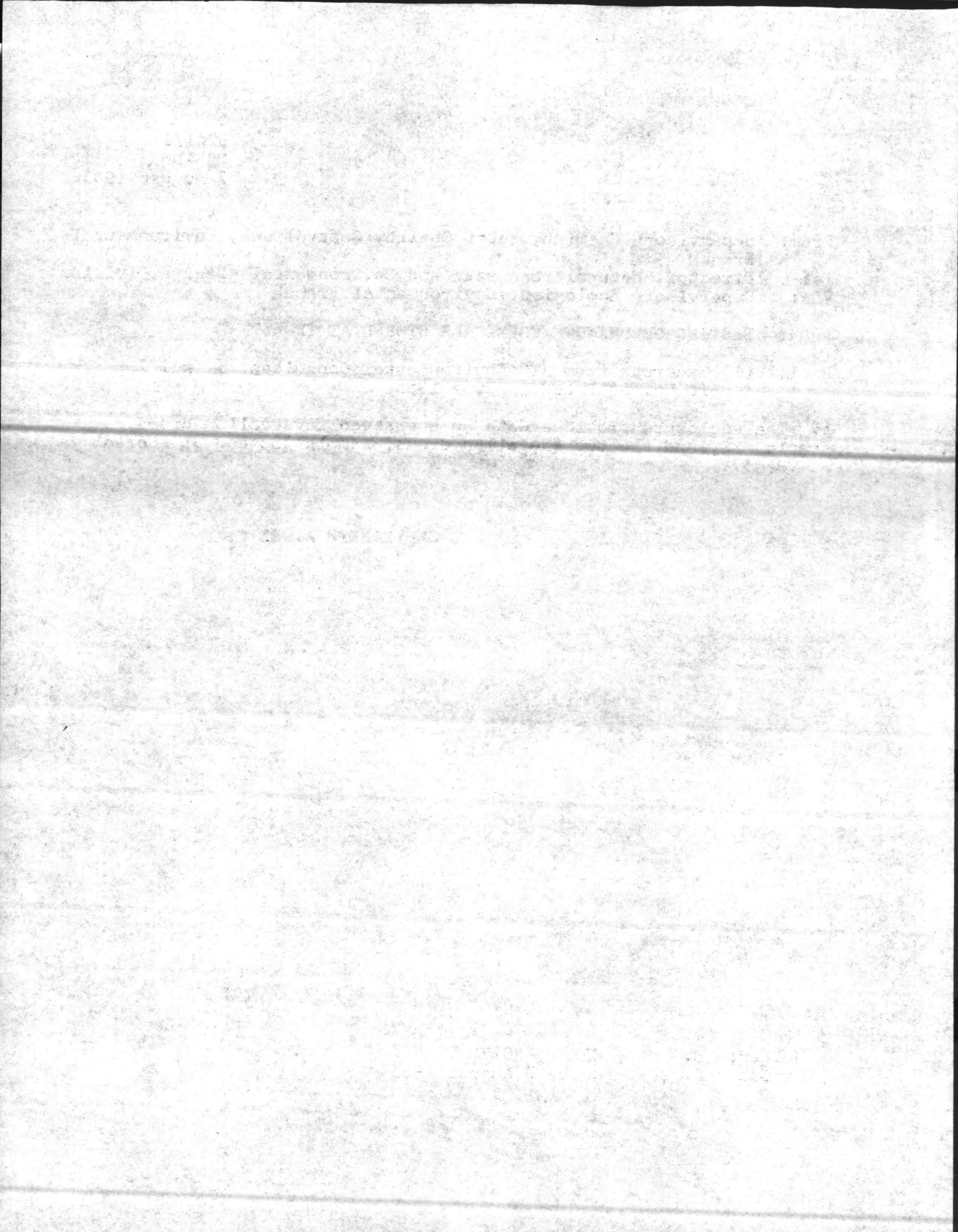
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Encl: (1) Excerpts from JTC Environmental Consultants, Inc.
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ELIZABETH A. BETZ

Writer: E. Betz, NREAD, 5977
Typist: A. Blackstock, 7 August 1985





UNITED STATES MARINE CORPS
Natural Resources and Environmental Affairs Division
Marine Corps Base
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO:
6241/1
NREAD
7 August 1985

From: Supervisory Chemist, Water Quality Control Lab, Environmental Branch
To: Director, Natural Resources and Environmental Affairs Division
Via: Supervisory Ecologist, Environmental Branch
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Elizabeth A. Betz
ELIZABETH A. BETZ

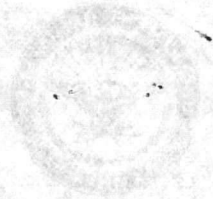


UNITED STATES MARINE CORPS

Headquarters, Marine Corps, Washington, D.C.

Marine Corps Order

Form 100 (Rev. 1-15-53)



1885

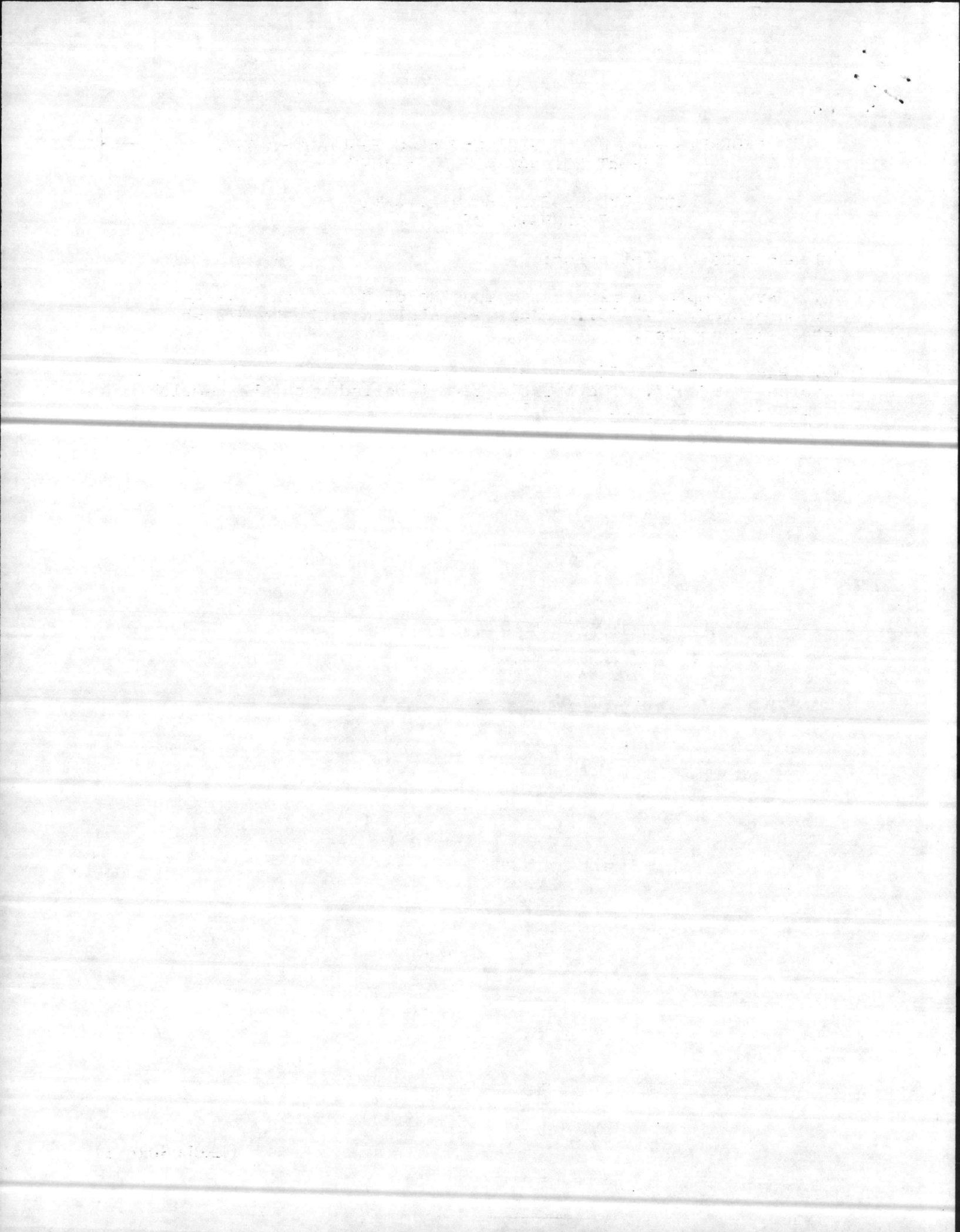
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REPORT NO. 54, DATED 28 JUNE 1985

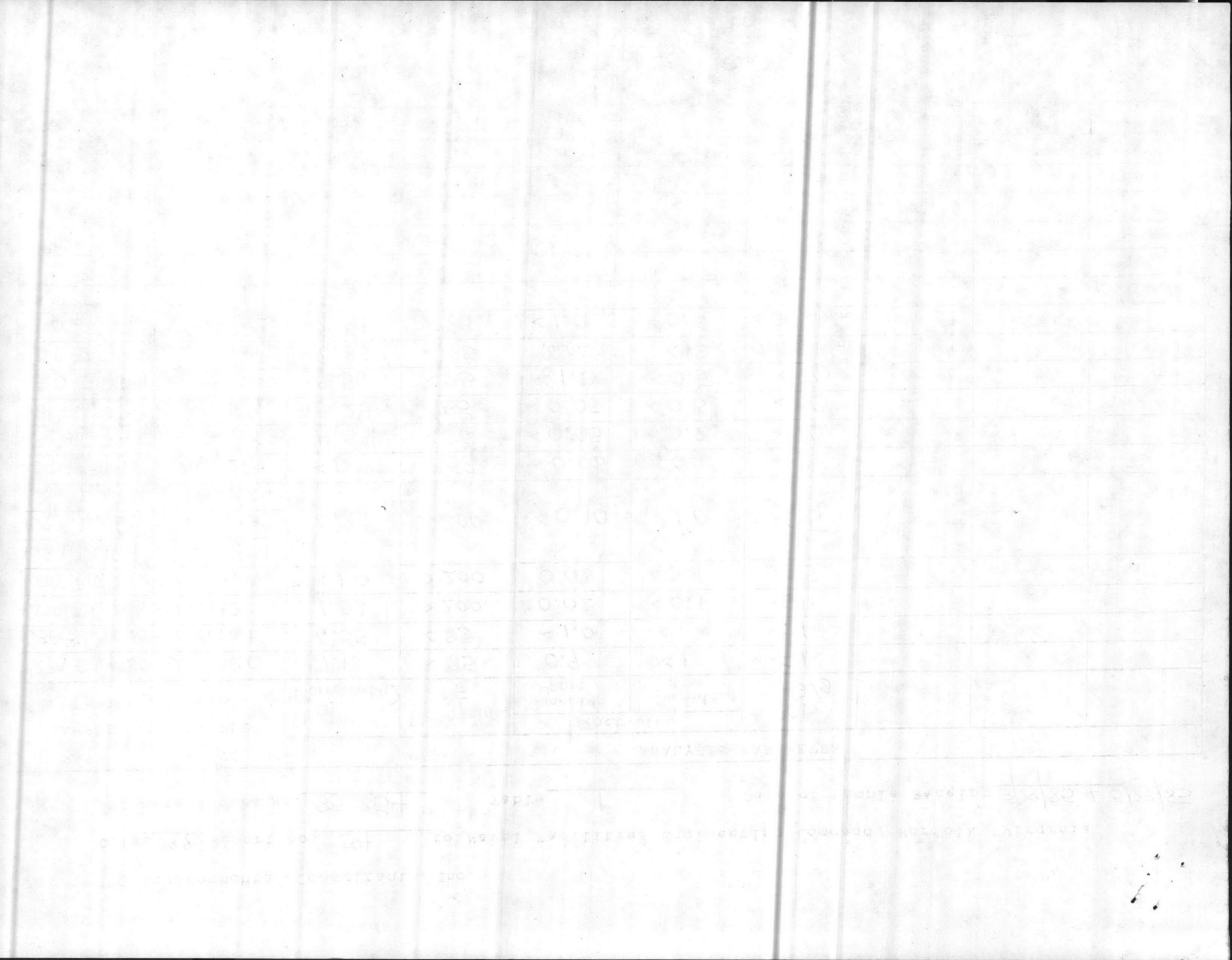
COMPILED BY ELIZABETH A. BETZ
7 AUGUST 1985

Please note the following:

a. Navy sample ID #29 is a composite of the seven five-gallon drums stored at TP-457. Each was labelled with the #29 when they were sampled.

b. Navy sample ID #30 and 31 are from the two 55-gallon drums stored at TP-457. The barrels were labelled with the sample numbers 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

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#27I Bldg 251	12-0923	290 ug/L	<1000 ug/L	680 ug/L	13,100 ug/L	3,120 ug/L	<1.0 ug/L	1960 ug/L	<50 ug/L
#28J 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 mg/kg
#28K Landfill	12-0925								
#28L Landfill	12-0926								
#29 Bldg TP457	12-0927	*	*	*	*	*	*	*	*
#30 Bldg TP457	12-0928	<50 ug/L	7800 ug/L	<25 ug/L	<50 ug/L	62.5 ug/L	22 ug/L	<20 ug/L	<50 ug/L
#31 Bldg TP457	12-0929	<50 ug/L	3130 ug/L	<25 ug/L	185 ug/L	21 ug/L	<1.0 ug/L	<20 ug/L	<50 ug/L
#320 Bldg TP451	12-0930	+	+	+	+	+	1925	+	+
#32P Bldg TP451	12-0931	<50 ug/L	1295 ug/L	<25 ug/L	63,600 ug/L	6250 ug/L	3.7 ug/L	<20 ug/L	<50 ug/L
#32Q Bldg TP451	12-0932	<50 ug/L	1535 ug/L	130 ug/L	93,900 ug/L	40,200 ug/L	7.9 ug/L	<20 ug/L	<50 ug/L

* sample depleted

+ sample requires redigestion prior to completion of analysis



6241/1
NREAD
7 August 1985

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

Subj: TESTING OF UNKNOWN CHEMICALS STORED AT TP-457

Encl: (1) Excerpts from JTC Environmental Consultants, Inc.
Report No. 54 Dated 28 June 1985

1. The enclosure provides data on the seven five-gallon drums, sample #29, and the two 55-gallon drums, sample #30 and 31, stored at TP-457.

ELIZABETH A. BETZ

SECRET

7 August 1953

From: Special Agent in Charge, Federal Bureau of Investigation, Washington, D.C.
 To: Director, National Security Agency, Washington, D.C.
 Subject: [Illegible]

Reference is made to the report of the [Illegible] dated [Illegible] and the [Illegible] dated [Illegible].

SECRET

6241/1
NREAD
7 August 1985

From: Supervisory Chemist, Water Quality Control Lab, Environmental
Branch
To: Director, Natural Resources and Environmental Affairs Division
→ Via: Supervisory Ecologist, Environmental Branch
Subj: ANALYSIS OF UNKNOWN SUBSTANCE LOCATED AT FC-251
Encl: (1) Excerpts from JTC Environmental Consultants, Inc.
Report No. 54 Dated 28 June 1985

1. The enclosure provides data on the 55-gallon drums located at
FC-251. The barrels are labelled H and I.

ELIZABETH A. BETZ

Writer: E. Betz, NREAD, 5977
Typist: A. Blackstock, 7 August 1985

1954

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
57 SOUTH EAST ASIAN AVENUE
CHICAGO, ILLINOIS 60607
U.S.A.

1954
UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
57 SOUTH EAST ASIAN AVENUE
CHICAGO, ILLINOIS 60607
U.S.A.

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)

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5800 S. UNIVERSITY AVE.
CHICAGO, ILL. 60637

PLEASE REFER TO THE FOLLOWING
FOR FURTHER INFORMATION
ON THE SUBJECT OF THIS
MEMORANDUM



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
#23A 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 mg/kg
#23B 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 mg/kg
#27H Bldg 251	12-0922	<50 ug/L	1170 ug/L	2440 ug/L	65 ug/L	9850 ug/L	<1.0 ug/L	141 ug/L	<50 ug/L
#27I Bldg 251	12-0923	290 ug/L	<1000 ug/L	680 ug/L	13,100 ug/L	3,120 ug/L	<1.0 ug/L	1960 ug/L	<50 ug/L
#28J 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 mg/kg
#28K Landfill	12-0925								
#28L Landfill	12-0926								
#29 Bldg TP 457	12-0927	*	*	*	*	*	*	*	*
#30 Bldg TP 457	12-0928	<50 ug/L	7800 ug/L	<25 ug/L	<50 ug/L	62.5 ug/L	22 ug/L	<20 ug/L	<50 ug/L
#31 Bldg TP 457	12-0929	<50 ug/L	3130 ug/L	<25 ug/L	185 ug/L	21 ug/L	<1.0 ug/L	<20 ug/L	<50 ug/L
#32O Bldg TP 451	12-0930	+	+	+	+	+	1925	+	+
#32P Bldg TP 451	12-0931	<50 ug/L	1295 ug/L	<25 ug/L	63,600 ug/L	6250 ug/L	3.7 ug/L	<20 ug/L	<50 ug/L
#32Q Bldg TP 451	12-0932	<50 ug/L	1535 ug/L	130 ug/L	93,900 ug/L	40,200 ug/L	7.9 ug/L	<20 ug/L	<50 ug/L

* sample depleted

+ sample requires redigestion prior to completion of analysis



6241/1
NREAD
7 August 1985

From: Supervisory Chemist, Water Quality Control Lab, Environmental Branch
To: Director, Natural Resources and Environmental Affairs Division
Via: Supervisory Ecologist, Environmental Branch
Subj: ANALYSIS OF UNKNOWN SUBSTANCE LOCATED AT FC-251
Encl: (1) Excerpts from JTC Environmental Consultants, Inc.
Report No. 54 Dated 28 June 1985

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ELIZABETH A. BETZ

Writer: E. Betz, NREAD, 5977
Typist: A. Blackstock, 7 August 1985

1948
The following information was obtained from the records of the
Department of the Interior, Bureau of Land Management, and
the Department of the Interior, Bureau of Reclamation, and
the Department of the Interior, Bureau of Indian Affairs.

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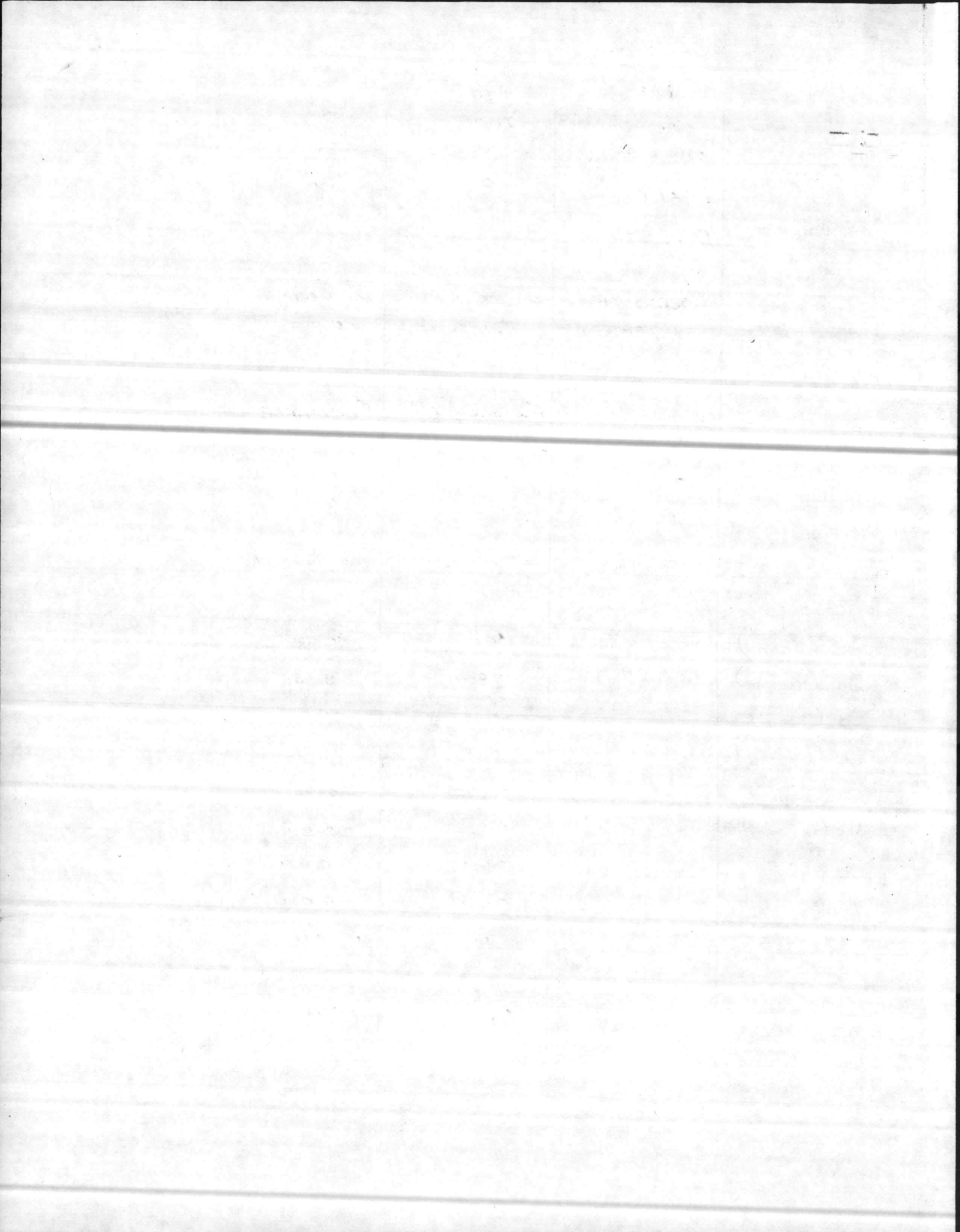
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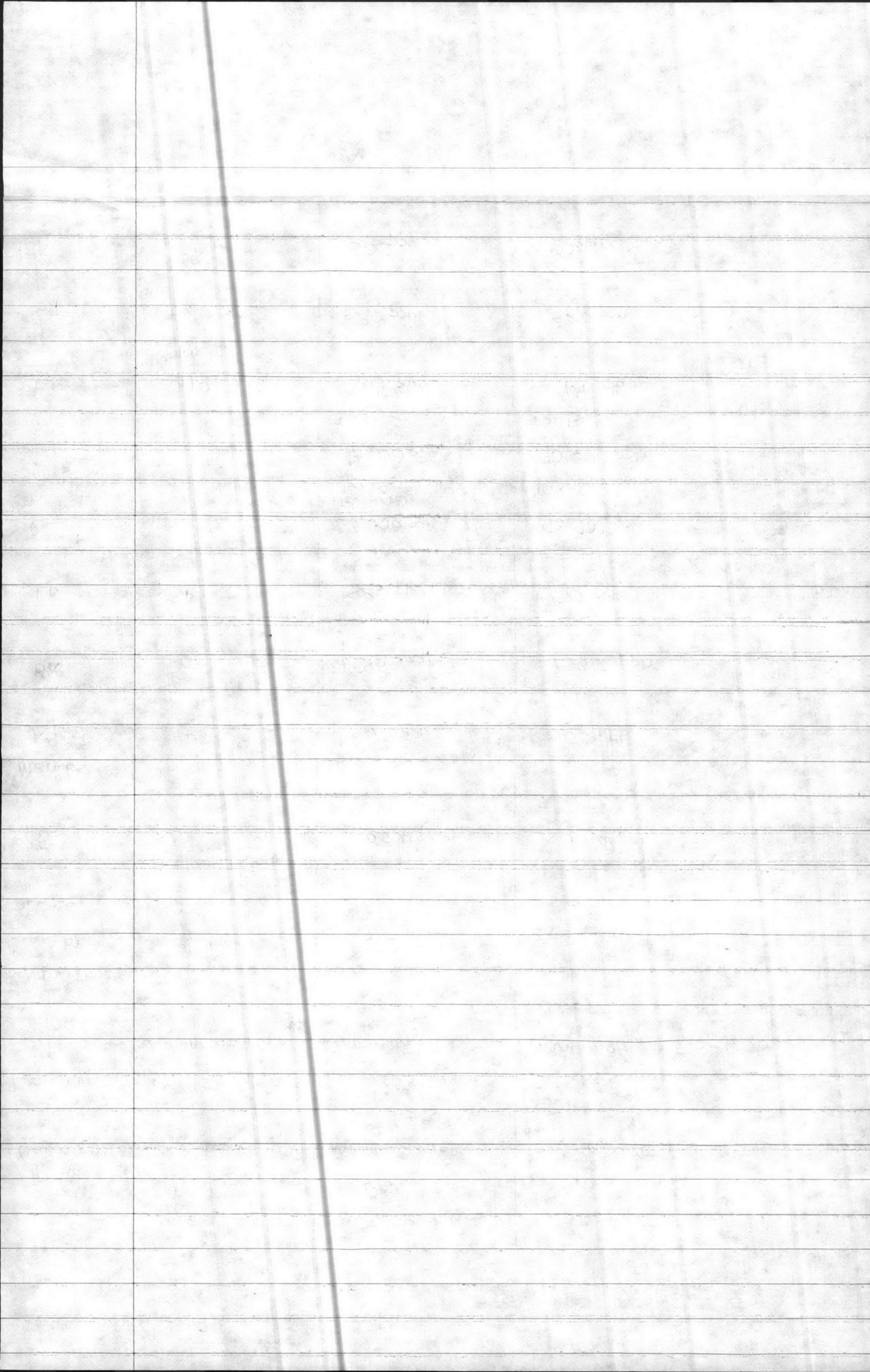
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6. The following information was obtained from the records of the
Department of the Interior, Bureau of Land Management, and
the Department of the Interior, Bureau of Reclamation, and
the Department of the Interior, Bureau of Indian Affairs.

CHARACTERISTIC	#29 DRUMS SEVEN 5-GALLON	#30 DRUM 55-GALLON	#31 DRUM 55-GALLON
CORROSIVITY PH	<1.0 <u>VERY HIGHLY</u> <u>ACIDIC</u> CORROSIVE	4.89 NOT CORROSIVE	5.25 NOT CORROSIVE
IGNITABILITY FLASH POINT	153°F NOT FLAMMABLE	<85°F FLAMMABLE	<85°F FLAMMABLE
REACTIVITY CYANIDE (ppm) SULFIDE (ppm)	<0.05 <0.1 NOT REACTIVE	<0.05 <0.2 NOT REACTIVE	<0.05 <0.05 NOT REACTIVE
TOXICITY 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)	NO RESULTS - REQUIRES MORE SAMPLES	<0.050 7.800 <0.025 <0.05 0.0625 0.022 <0.020 <0.050 NOT TOXIC	<0.050 3.130 <0.025 0.185 0.021 <0.010 <0.020 <0.050 NOT TOXIC
PCB	<1	<10	<10



	32-0	32-P	32-Q
pH	9.56	6.85	6.91
(CORROSIVITY)	NOT CORROSIVE	NOT CORROSIVE	NOT CORROSIVE
FLASH POINT	< 85	< 85	< 85
°F	FLAMMABLE	FLAMMABLE	FLAMMABLE
REACTIVITY			
CYANIDE	< 1.0	6.2	< 1.0
SULFIDE	< 0.5	< 1	< 0.5
PCB	< 10	0.05 ^(PPM) mg/ml	< 0.1 ^(PPM) mg/ml
METALS			
AS	+	< 50 ppb	< 50 ppb
BA	+	1295 ppb 1.295 ppm	1535 ppb
CD	+	< 25 ppb	130 ppb
CR	+	63,600 ppb 48.6 ppm TOXIC	93,900 ppb TOXIC
PB	+	6,250 ppb TOXIC	40,200 ppb TOXIC
HG	1925 ppb TOXIC	3.7 ppb	7.9 ppb
SE	< 20 +	< 20 ppb	< 20 ppb
AG	+	< 50 ppb	< 50 ppb



23A Flam

23B Flam

#27H Cov.

27I Cov

28J, K, L —

29 Cov. , Combustible

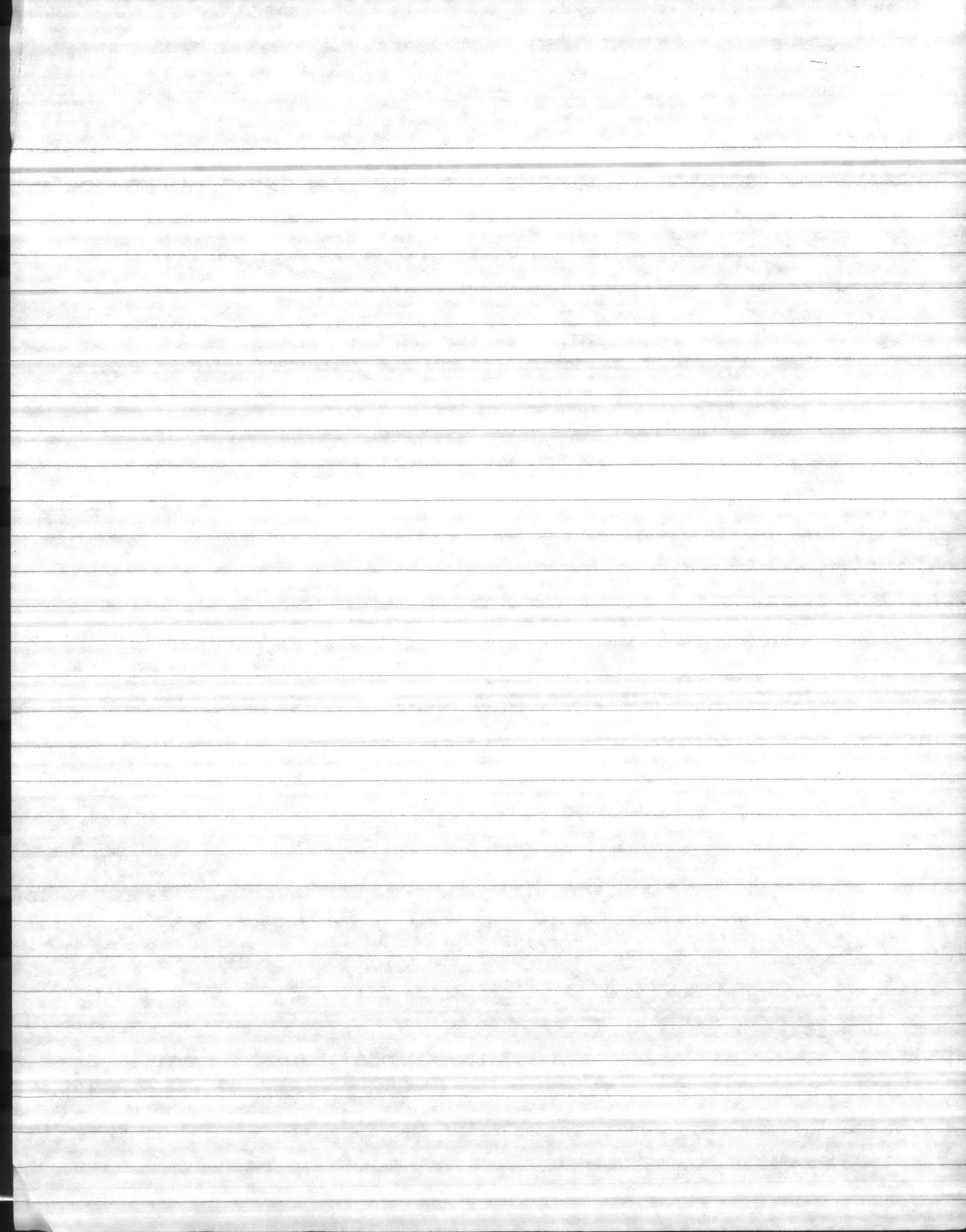
30 Flam.

31 Flam.

32O Flam

32P Flam.

32Q Flam.



6241/1
NREAD
6 August 1985

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

Subj: THREE UNKNOWN BARRELS STORED AT TP-451; ANALYSIS OF

Encl: (1) Excerpts for JTC Environmental Consultants, Inc.
Report #54 Dated 28 June 1985

1. The enclosure provides data on the three barrels received by
DRMO from MCAS-NR presently stored at TP-451. The barrels are
labelled 32-O, 32-P and 32-Q.

ELIZABETH A. BETZ

Writer: E. Betz, NREAD, 5977
Typist: A. Blackstock, 6 August 1985

1943

1943

1943

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

PH.D. THESIS

BY

ROBERT H. COOPER

PH.D. THESIS

IN

CHEMISTRY

1943

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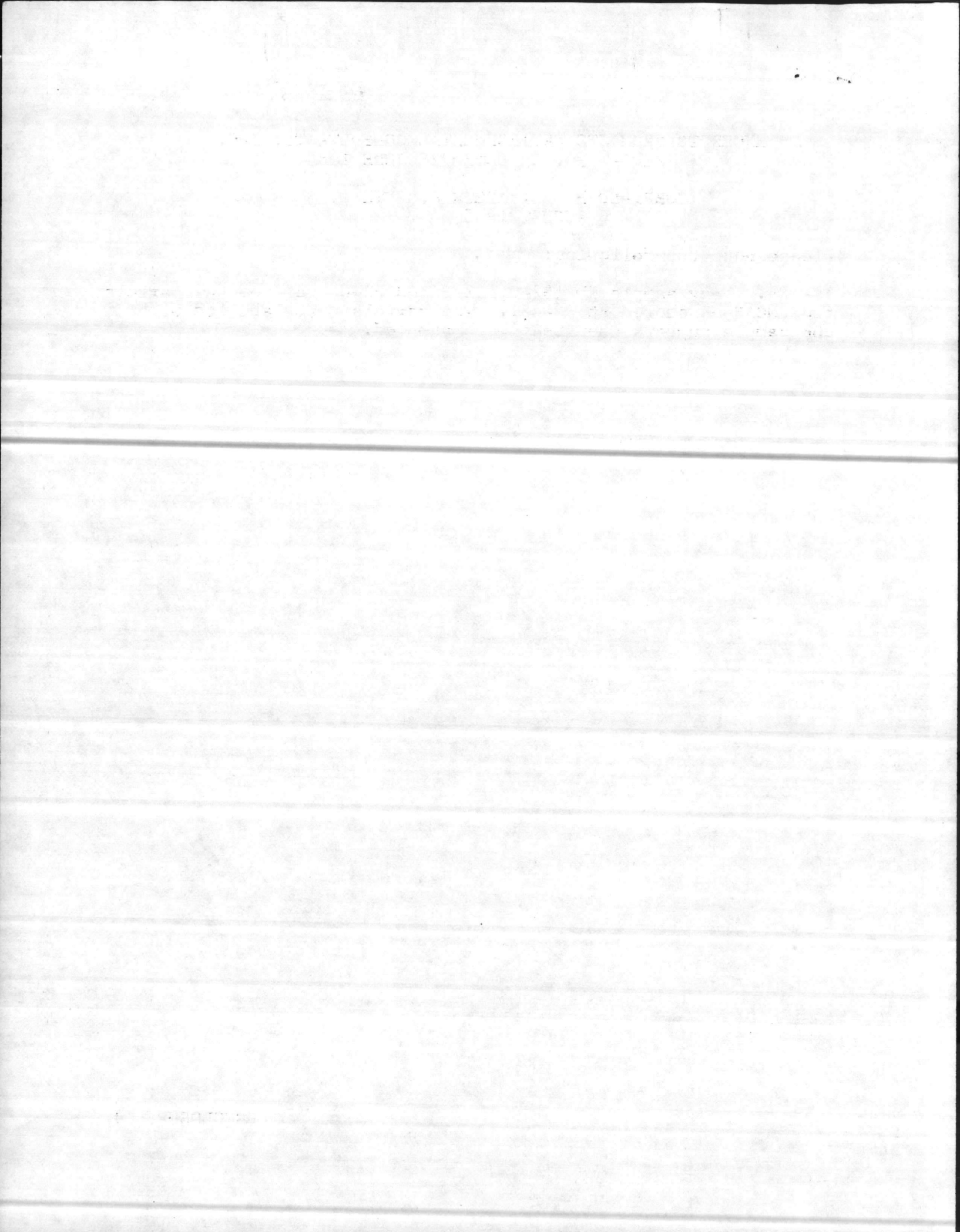
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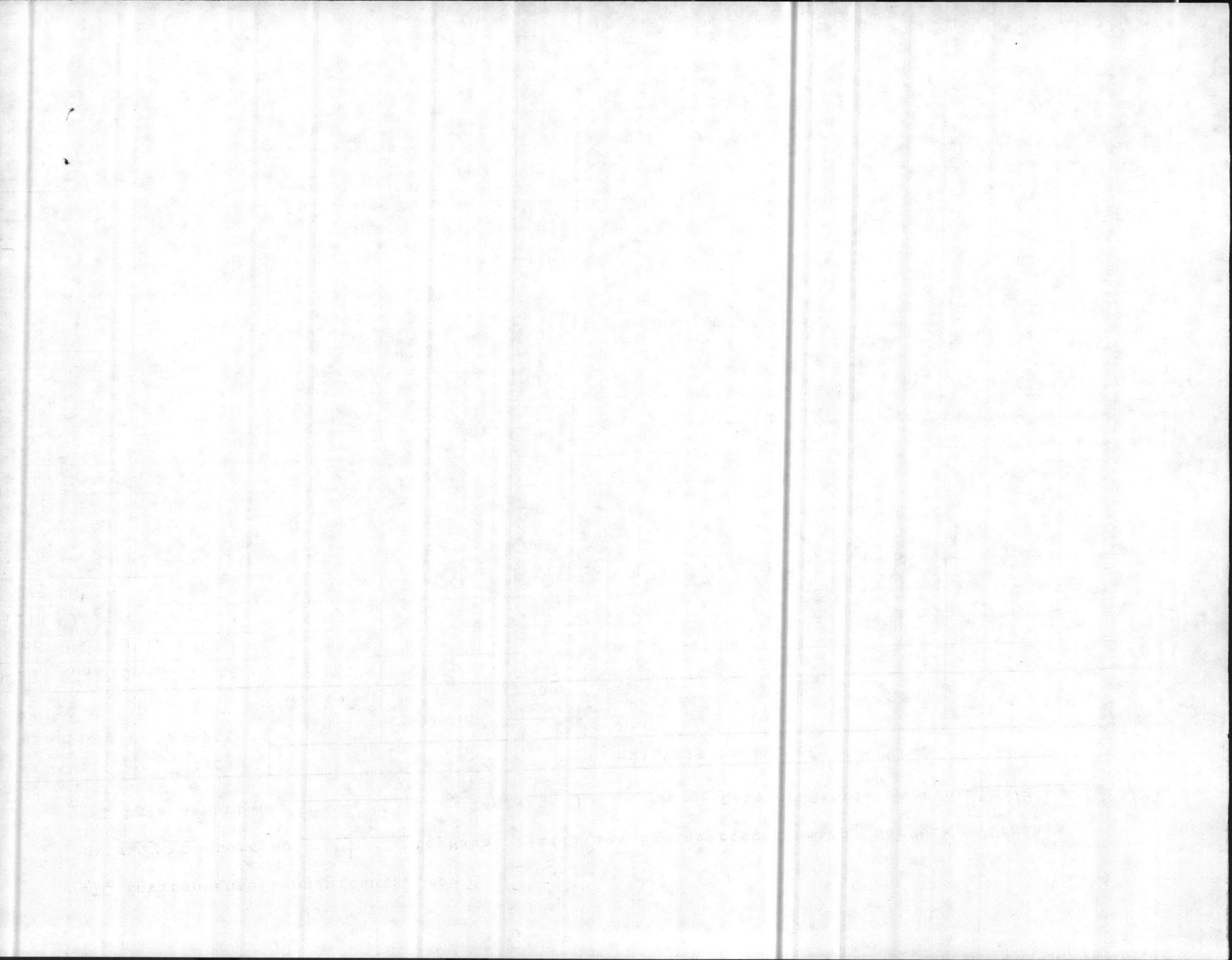
COMPILED BY ELIZABETH A. BETZ
6 AUGUST 1985

Please note the following:

a. Navy sample ID #32-0, 32-P and 32-Q are from the barrels from MCAS-NR stored at TP-451. The barrels were labelled with the sample numbers when they were sampled.

(ENCLOSURE 1)





JTC Environmental Consultants, Inc.

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

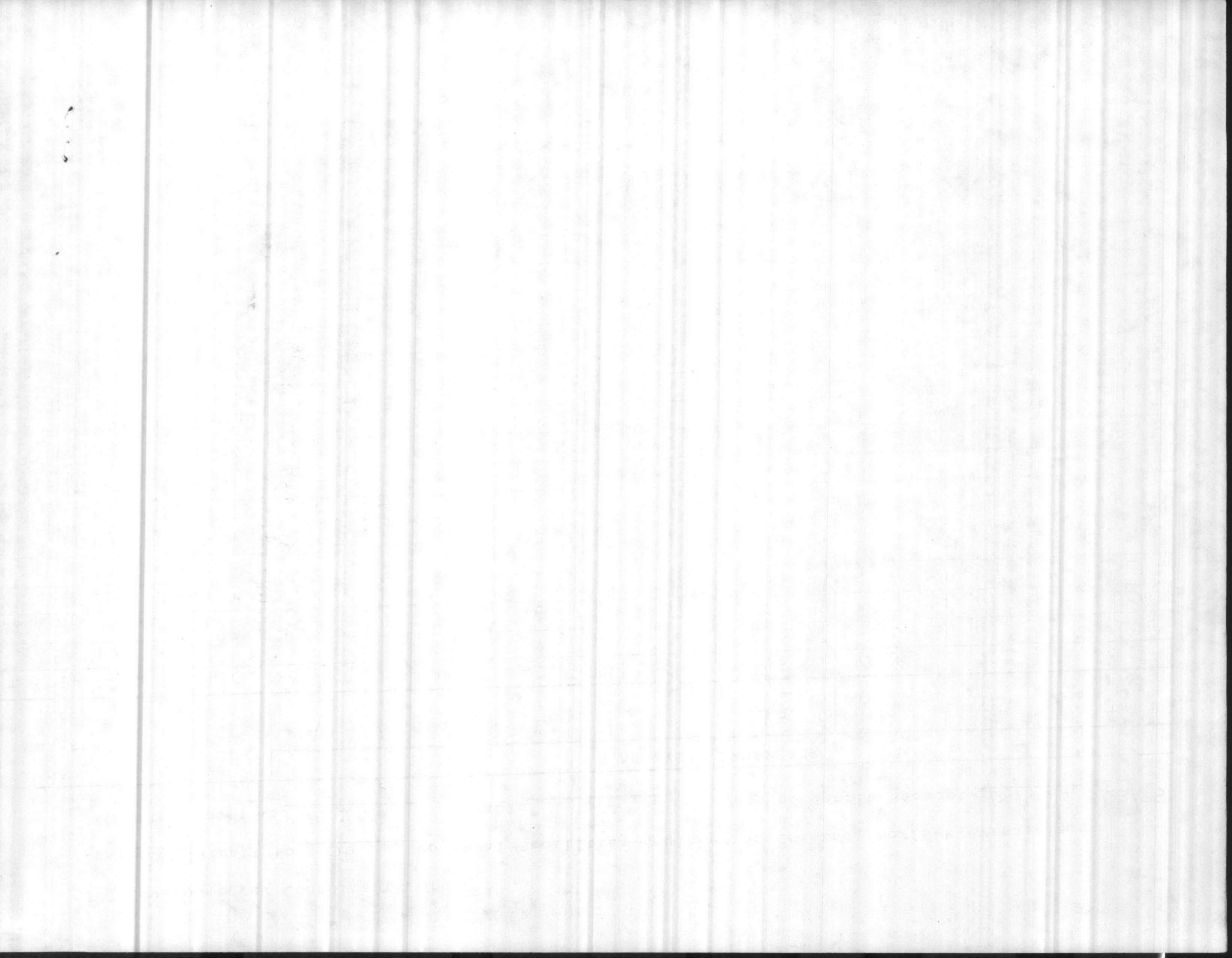
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6241/1
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6 August 1985

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

Subj: THREE UNKNOWN BARRELS STORED AT TP-451; ANALYSIS OF

Encl: (1) Excerpts for JTC Environmental Consultants, Inc.
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ELIZABETH A. BETZ

1950

1950

1950

Department of Health, Education and Welfare, Bureau of Health Services

Division of Health Services, Bureau of Health Services

Division of Health Services, Bureau of Health Services

Division of Health Services, Bureau of Health Services

Division of Health Services, Bureau of Health Services

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STIS

6241/1
NREAD
6 August 1985

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

Subj: THREE UNKNOWN BARRELS STORED AT TP-451; ANALYSIS OF

Encl: (1) Excerpts for JTC Environmental Consultants, Inc.
Report #54 Dated 28 June 1985

1. The enclosure provides data on the three barrels received by
DRMO from MCAS-NR presently stored at TP-451. The barrels are
labelled 32-O, 32-P and 32-Q.

ELIZABETH A. BETZ

Writer: E. Betz, NREAD, 5977
Typist: A. Blackstock, 6 August 1985

1941

1941

TO: Mr. Tolson, Mr. E. A. Tamm, Mr. Clegg, Mr. Glavin, Mr. Ladd, Mr. Nichols, Mr. Rosen, Mr. Tracy, Mr. Carson, Mr. Egan, Mr. Gurnea, Mr. Hendon, Mr. Pennington, Mr. Quinn, Mr. Nease, Mr. Gandy

FROM: Mr. [Name], [Title]

SUBJECT: [Subject]

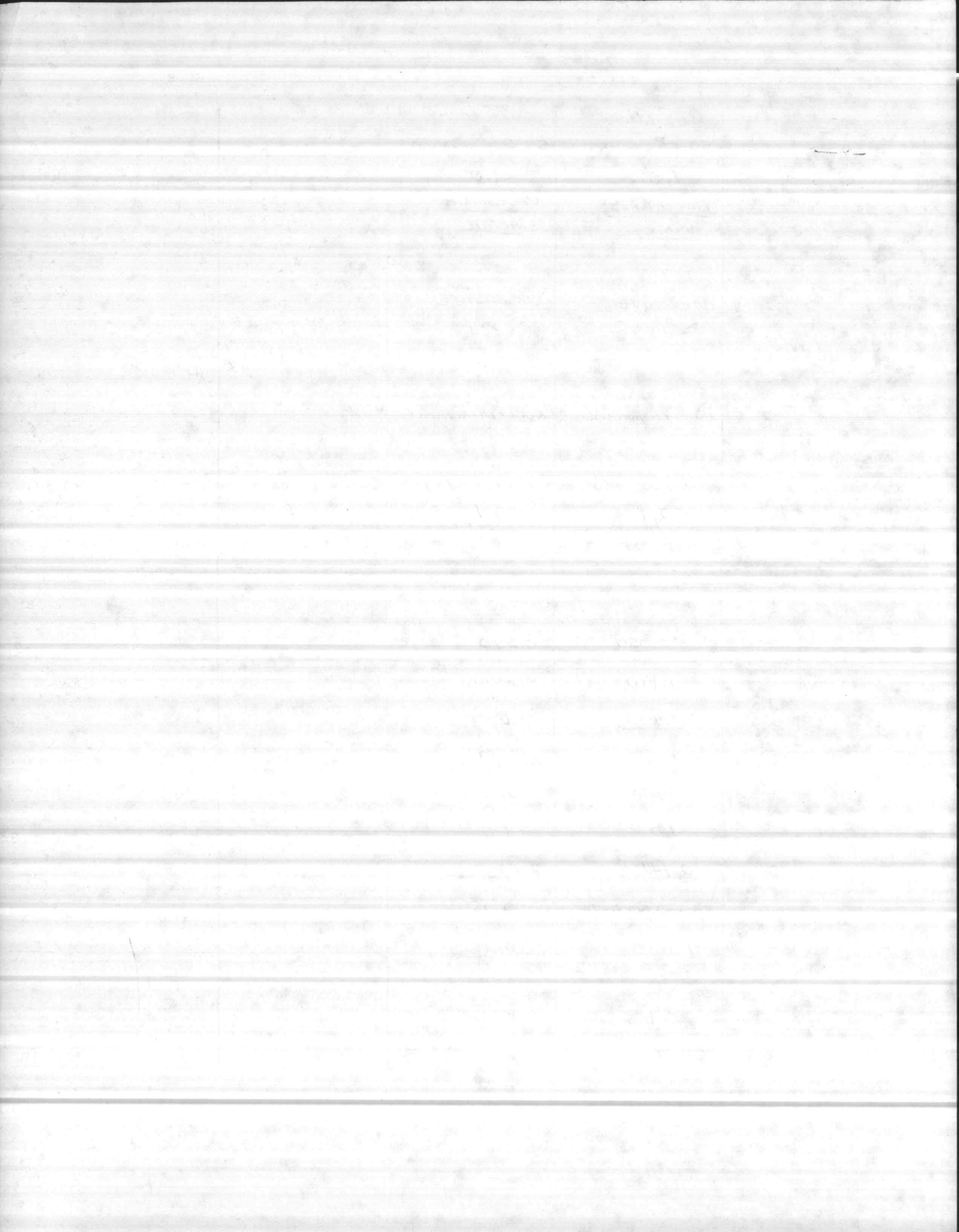
[Text]

[Text]

Very truly yours,

[Text]

	27H	27I		
CHARACTERISTIC	55-GALLON DRUM	55 GALLON DRUM		
CORROSIVITY pH	1.52 <u>VERY HIGHLY</u> <u>ACIDIC</u> CORROSIVE	<1.0 <u>VERY HIGHLY</u> <u>ACIDIC</u> CORROSIVE		
IGNITABILITY FLASH POINT	>200 °F NOT FLAMMABLE	>200°F NOT FLAMMABLE		
REACTIVITY CYANIDE (ppm) SULFIDE (ppm)	0.02 (?) <0.1	0.03 (?) <0.1		
TOXICITY				
As (5 ppm)	<0.050	0.290		
Ba (100ppm)	1.170	<1.000		
Cd (1ppm)	<u>2.440</u>	0.680		
Ce (5ppm)	0.065	<u>13,100</u>		
Pb (5 ppm)	<u>9.850</u> 8.775	3,120		
Hg (0.2ppm)	<1.0	<1.0		
Se (1.0ppm)	0.141	<u>1.960</u>		
Ag (5ppm)	50 <0.050	<0.050		
	TOXIC	TOXIC		
PCB	<1	<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:

6280

48

21 Feb 1985

SECOND ENDORSEMENT on OIC, SMU ltr 11000 SMU/JJH/sb of 11 Feb 85

From: Commanding General
To: Commanding General, Marine Corps Base, Camp Lejeune NC
(Attn: Director, Natural Resources and Environmental Affairs)

Subj: TESTING OF UNKNOWN CHEMICALS STORED AT TP-457

1. Forwarded for action.

D. A. Cerveny
D. A. CERVENY
By direction

Copy to:
CO, 2d SupplyBn
OIC, SMU, 2d SupplyBn

Sampled 3/29/85
Sample numbers are #29 (55gal drum)
#30 (55gal drum)
#31 (55gal drum)

MAR 21 1985 Received

0280
11 Feb 1953

1

11 Feb 1953

11 Feb 1953

11 Feb 1953



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

IN REPLY REFER TO

11000
 SMU/JJH/sb
 11 FEB 1985

From: Officer In Charge, SASSY Management Unit
 To: Commanding General, 2D FSSG (ATTN: Safety)
 Via: Commanding Officer, 2D Supply Battalion (ATTN: S-4)

Subj: TESTING OF UNKNOWN CHEMICALS STORED AT TP-457

1. It is requested contents of the following containers be tested to determine applicability to operations at the Flammable Storage Warehouse (TP-457):

- 2 - 55 Gallon Drums
- 5 - 5 Gallon Plastic Containers

2. Due to the unknown nature of the contents of these containers, safe/proper storage is a problem.

3. For further information, contact 2D LT HOBBY ext 1468/2121/.

J. W. Rattigan
 J. W. RATTIGAN

Date FEB 20 1985

FIRST Endorsement

From: S-4 Officer, Supply Battalion

To: CG, 2d FSSG (ATTN: Safety Off)

Via:

- 1. () Forwarded
- (X) Forwarded For Action
- () Recommended and Forwarded

(X) 55 gallon drums are believed to be POL. 5 gallon containers are believed to be ACID.

T. J. Greer
 T. J. GREER

1000
1000/1000
1000/1000

1000

1000

1000

110
DPS
28 Feb 85



UNITED STATES MARINE CORPS
2d Force Service Support Group (Rein)
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542-5701

IN REPLY REFER TO:

6280

48

19 Feb 1985

FIRST ENDORSEMENT on CO, 2d ANGLICO ltr 4400 S-4 of 14 Feb 1985

From: Commanding General
To: Commanding General, Marine Corps Base, Camp Lejeune NC
(Attn: Director, Natural Resources and Environmental Affairs)

Subj: REQUEST FOR ANALYSIS

- 1. Forwarded for action.

D.A. Cerveny
D. A. CERVENY
By direction

Copy to:
CO, 2d ANGLICO

*Sampled 28 MAR 85, by H, B.
Sample number 27H and 27I.*

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20250

0880

19 Feb 1985

8801 11-11-85

Department of the Interior
Bureau of Land Management
Washington, D.C. 20250



UNITED STATES MARINE CORPS
2d Air and Naval Gunfire Liaison Company
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542-7311

IN REPLY REFER TO:

4400
S-4
14 Feb 1985

From: Commanding Officer, 2d Air and Naval Gunfire Liaison Company
To: Commanding General, 2d Force Service Support Group (ENGR SPT)

Subj: REQUEST ANALYSIS OF UNKNOWN SUBSTANCE

1. It is requested an analysis check be run on 55 gallons of a unknown substance located at FC-251. POC this HQ, Sgt LONDON ext. 5212.
2. Cleaning solvent, battery acid and motor oil are used frequently.

G.A. Mattes
G.A. MATTES
By direction

6-11

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES

DEPARTMENT OF CHEMISTRY
5780 SOUTH CAMPUS DRIVE
CHICAGO, ILLINOIS 60637

RECEIVED

DATE

BY

NAME

ADDRESS

CITY

STATE

COUNTRY

TELEPHONE

FACSIMILE

TELETYPE

TELEFAX

TELEVISION

POSTAL CODE

Work sheets
for Callows

6240/3
NREAD
29 May 1985

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

Subj: TRANSFORMER DISPOSAL; POLYCHLORINATED BIPHENYL (PCB) ANALYSIS RESULTS

Ref: (a) BO 6240.5

Encl: (1) Grainger Laboratories, Inc. Report #0853202 dated 24 April 1985

1. The enclosure is provided for use in turn-in of used transformers to DPDO. The results indicate that none of the transformers tested met the 500 Part Per Million (PPM) PCB limit for "PCB Transformers". However, 12 transformers had 50 to 499 PPM of PCB, which require management as "PCB Contaminated Transformers". These 12 should be turned in to DPDO per the reference and stored at the TP-451 DPDO facility.

2. The sample from Westinghouse transformer 15KVA, 10 gallon capacity, Serial #61113602 was broken. This transformer should be retained for resampling. The Supervisory Chemist, NREAD, will be contacting Base Maintenance Officer representative shortly to resample this transformer. Point of contact in this matter is Mr. D. Sharpe, extension 2083.

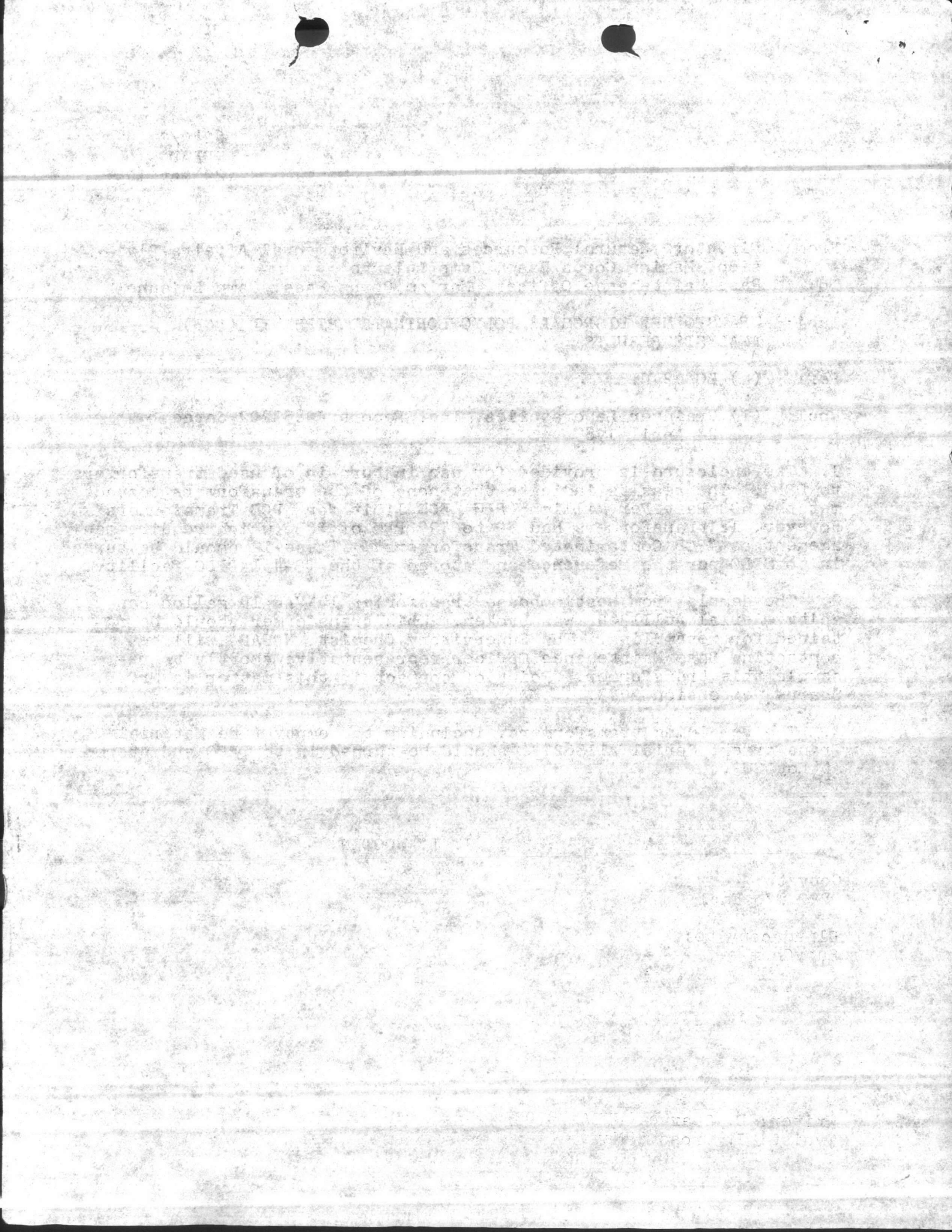
3. The remaining transformers, including the empty Line Material Transformer, Serial #1156224, should be turned in to DPDO and stored at Lot 203.

J. I. WOOTEN

Copy to:
DPDO w/o Encl

Blind copy to:
SupvChem

Writer: D. Sharpe, NREAD 5003
Typist: J. Cross 29May85





Grainger Laboratories Incorporated

Analytical and Consulting Chemists

DATE 4/24/85
CLI# 0853202

PAGE 1

Quality Control Lab, USMCB
Att: Elizabeth Betz, Supvsr
NREAD, Building 1103
Camp Lejeune, NC 28542

SUBJECT: ANALYSIS OF SAMPLES RECEIVED 4/03/85.

REFERENCE: PO NUMBER M67001-85-M-0610

RESULTS

SAMPLE NUMBER: 0853202-001
IDENTIFIER: TRANSFORMER OIL #1284

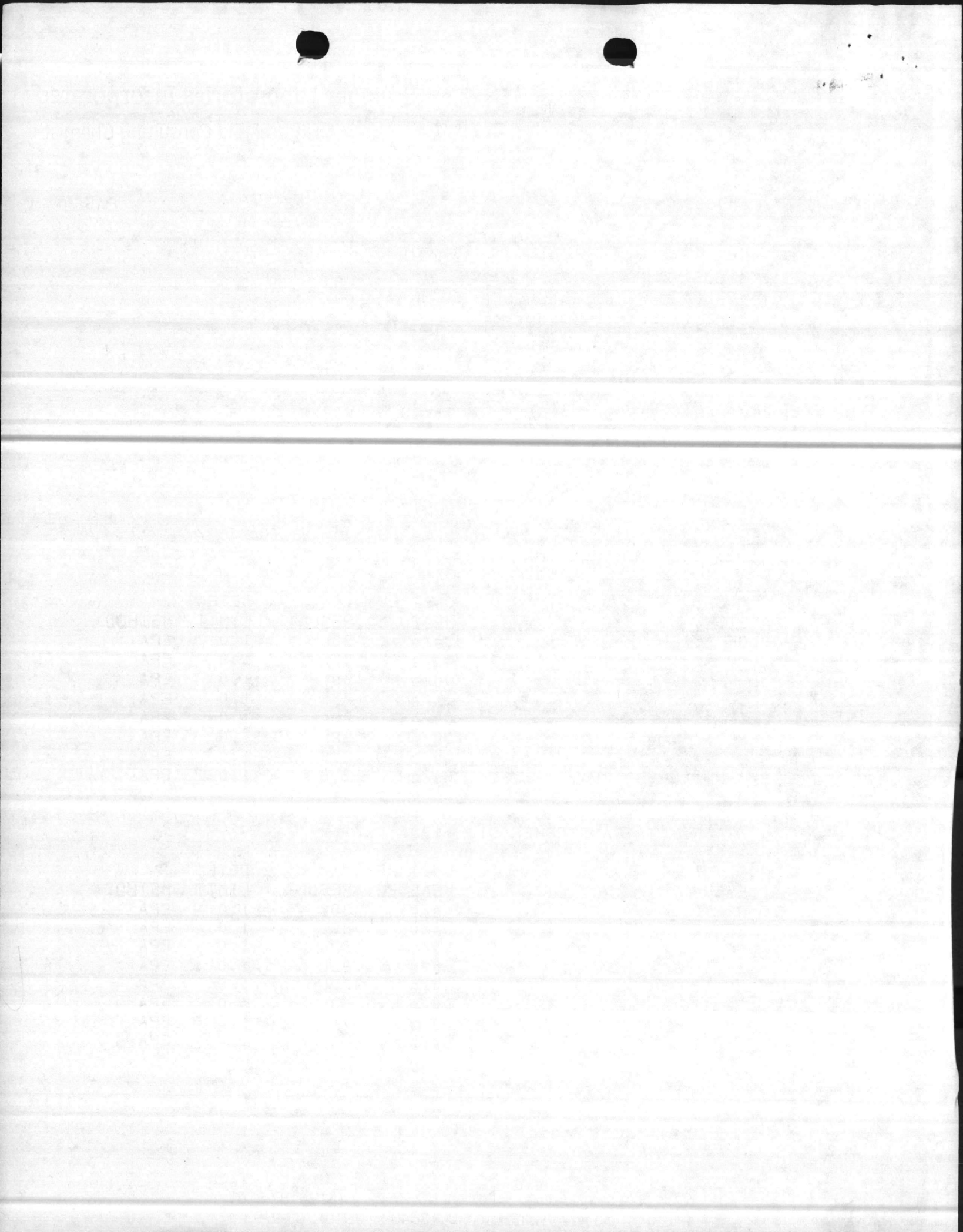
*Westinghouse, 3KVA, 5gallon
SERIAL # 6424542*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	2.8	1.0	EPA
TOTAL AROCLORS	ug/g	2.8	1.0	EPA

SAMPLE NUMBER: 0853202-002
IDENTIFIER: TRANSFORMER OIL #1285

*GE, 10 KVA, 5gallon
SERIAL # 8486164*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	96	1.0	EPA
TOTAL AROCLORS	ug/g	(96)	1.0	EPA





Grainger Laboratories Incorporated

Analytical and Consulting Chemists

DATE 4/24/85
GLI# 0853202

PAGE 2

SAMPLE NUMBER: 0853202-003
IDENTIFIER: TRANSFORMER OIL #1286

Allis Chalmers, 10 KVA, 5 gallon
SERIAL # 741063 08974

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	1.4	1.0	EPA
TOTAL AROCLORS	ug/g	1.4	1.0	EPA

SAMPLE NUMBER: 0853202-004
IDENTIFIER: TRANSFORMER OIL #1287

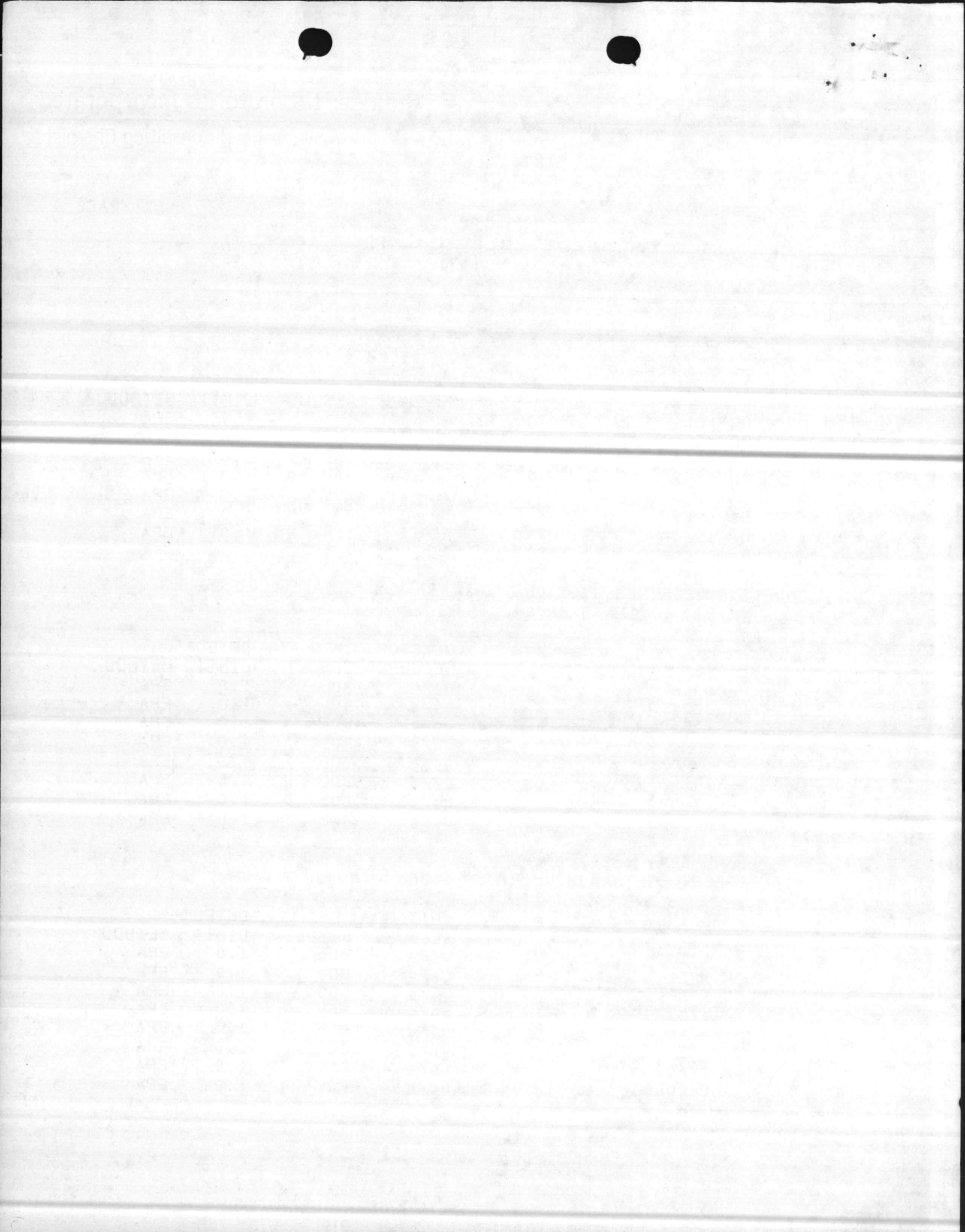
Allis Chalmers 10KVA 5gallon
SERIAL # 5200110

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-005
IDENTIFIER: TRANSFORMER OIL #1288

GE 15 KVA, 5 gallon
SERIAL # H6676-48468

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA





Grainger Laboratories Incorporated
Analytical and Consulting Chemists

DATE 4/24/85
GLI# 0853202

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SAMPLE NUMBER: 0853202-006
IDENTIFIER: TRANSFORMER OIL #1289

Westinghouse, 3 KVA
Serial # 35 33213

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	17	1.0	EPA
TOTAL AROCLORS	ug/g	17	1.0	EPA

SAMPLE NUMBER: 0853202-007
IDENTIFIER: TRANSFORMER OIL #1290

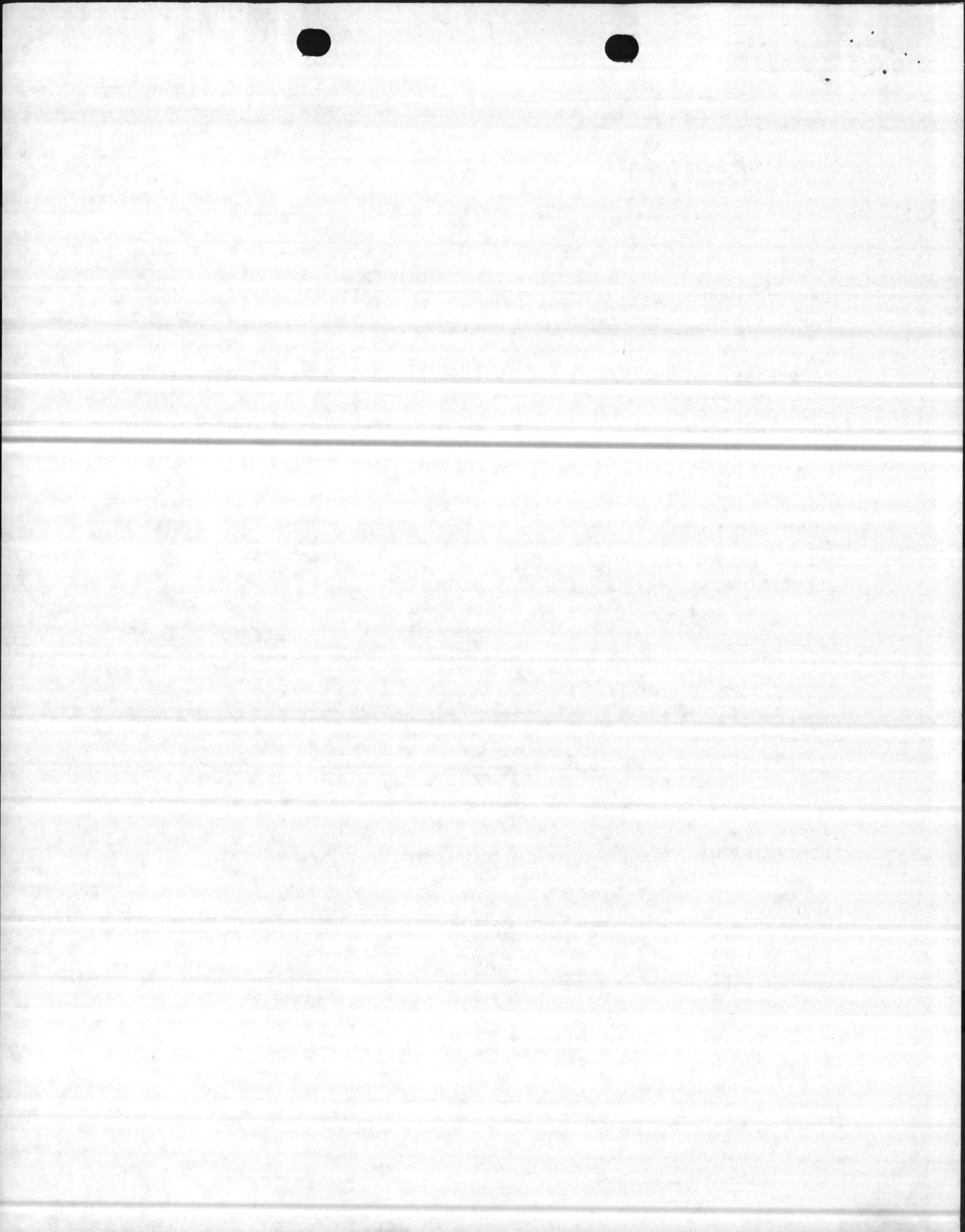
Westinghouse, 10 KVA, 56
Serial # 3142056

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	6.3	1.0	EPA
TOTAL AROCLORS	ug/g	6.3	1.0	EPA

SAMPLE NUMBER: 0853202-008
IDENTIFIER: TRANSFORMER OIL #1291

Westinghouse, 25 KVA
Ser. # 55516756

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	340	1.0	EPA
TOTAL AROCLORS	ug/g	340	1.0	EPA



DATE 4/24/85
GLI# 0853202

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SAMPLE NUMBER: 0853202-009
IDENTIFIER: TRANSFORMER OIL #1292

GE, 25 KVA, 25 G
Ser. # B546992

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	99	1.0	EPA
TOTAL AROCLORS	ug/g	99	1.0	EPA

SAMPLE NUMBER: 0853202-010
IDENTIFIER: TRANSFORMER OIL #1293

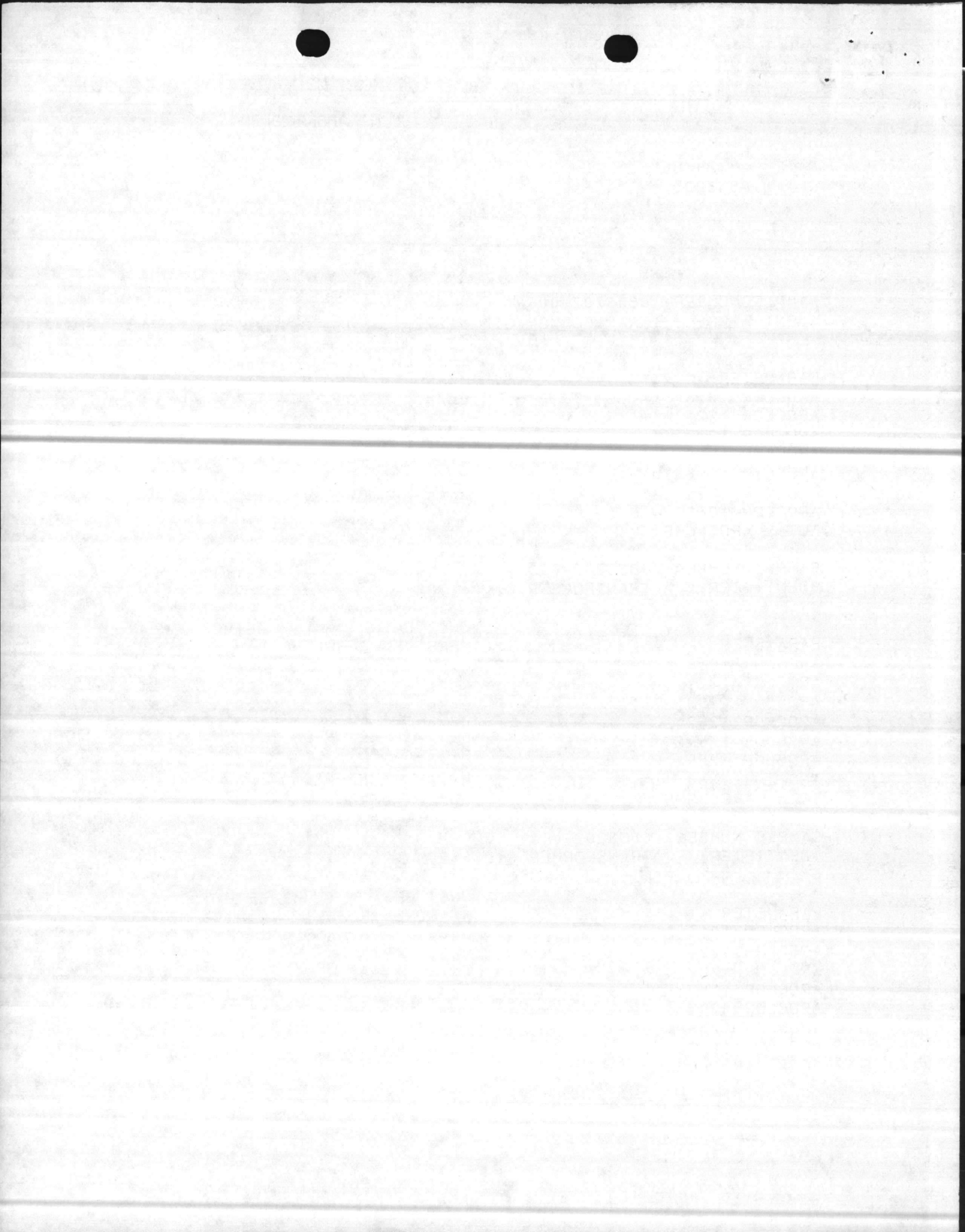
Delta Star, 25 KVA, 25
Ser. # T500524

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-011
IDENTIFIER: TRANSFORMER OIL #1294

Westinghouse, 25 KV
Ser. # 57J.6035

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	310	1.0	EPA
TOTAL AROCLORS	ug/g	310	1.0	EPA



DATE 4/24/85
GLI# 0853202

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SAMPLE NUMBER: 0853202-012
IDENTIFIER: TRANSFORMER OIL #1295

GE 75 KVA 40 Gal
Ser. # L367037Y

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	2.2	1.0	EPA
TOTAL AROCLORS	ug/g	2.2	1.0	EPA

SAMPLE NUMBER: 0853202-013
IDENTIFIER: TRANSFORMER OIL #1296

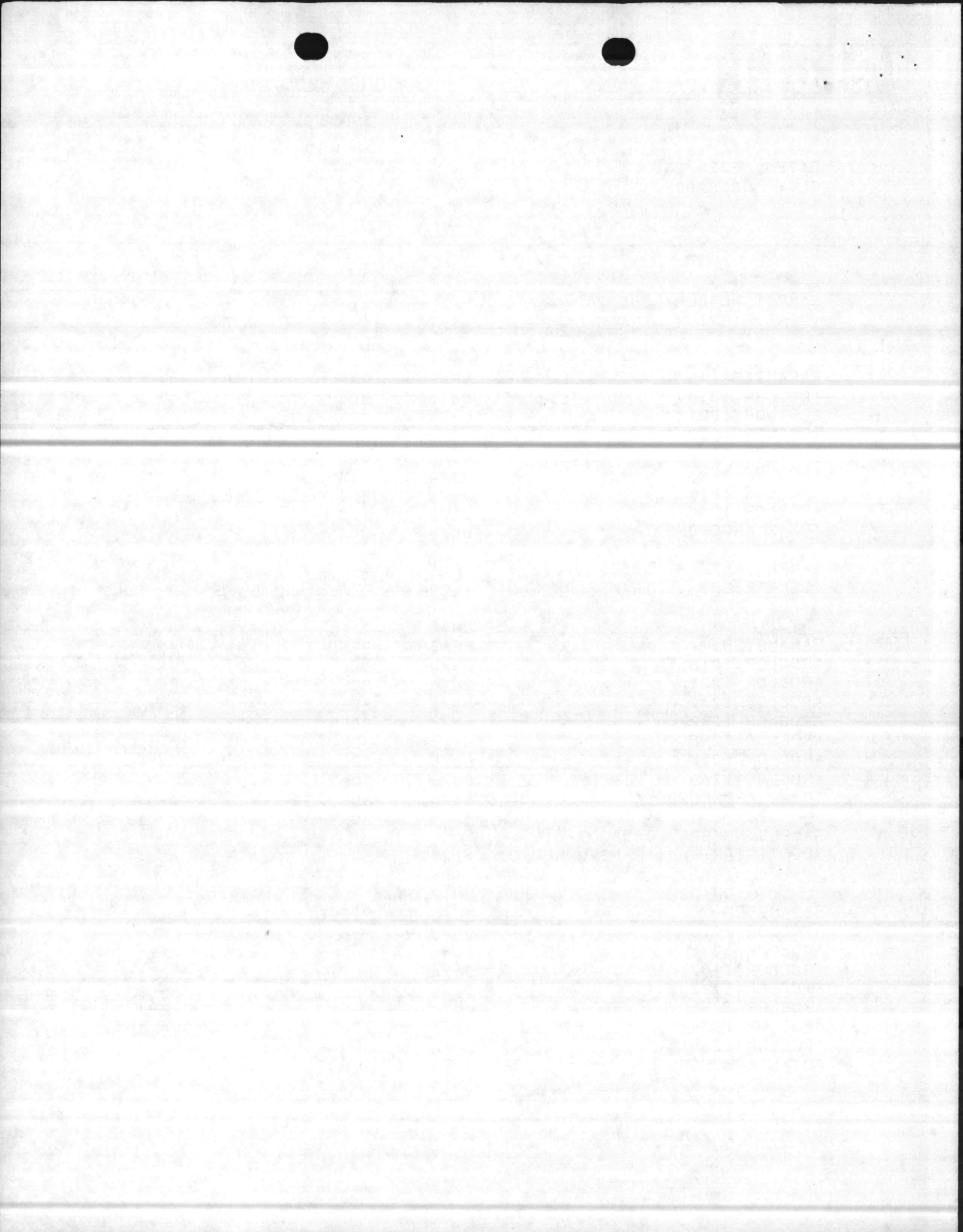
GE 75 KVA 40 Gal
Ser. # L828467Y D

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-014
IDENTIFIER: TRANSFORMER OIL #1297

Line Material 15 KVA
Ser. # 1268424 10

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA





Grainger Laboratories Incorporated
Analytical and Consulting Chemists

DATE 4/24/85
GLI# 0853202

PAGE

SAMPLE NUMBER: 0853202-015
IDENTIFIER: TRANSFORMER OIL #1298

Westinghouse 5 KVA
Ser. # 3532454

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	6.2	1.0	EPA
TOTAL AROCLORS	ug/g	6.2	1.0	EPA

SAMPLE NUMBER: 0853202-016
IDENTIFIER: TRANSFORMER OIL #1299

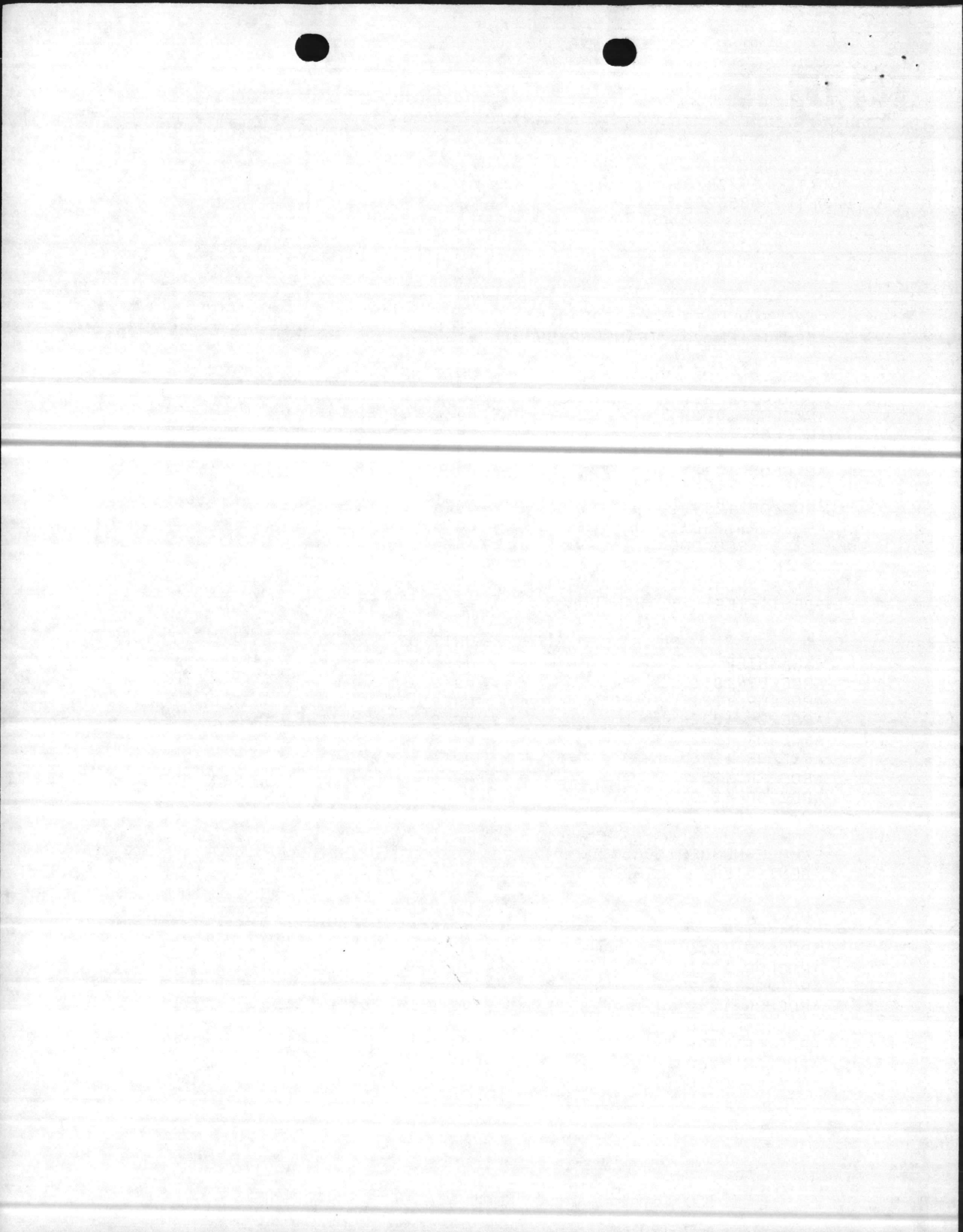
Eisler Engineering 37.5
Ser. # 541035-C

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-017
IDENTIFIER: TRANSFORMER OIL #1300

GE 100 KVA 40 E
Ser. # 8671240

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	220	1.0	EPA
TOTAL AROCLORS	ug/g	(220)	1.0	EPA



DATE 4/24/85
GLI# 0853202

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SAMPLE NUMBER: 0853202-018
IDENTIFIER: TRANSFORMER OIL #1301*Eisler Engineering 87.5
Ser. # 6344/2 4*

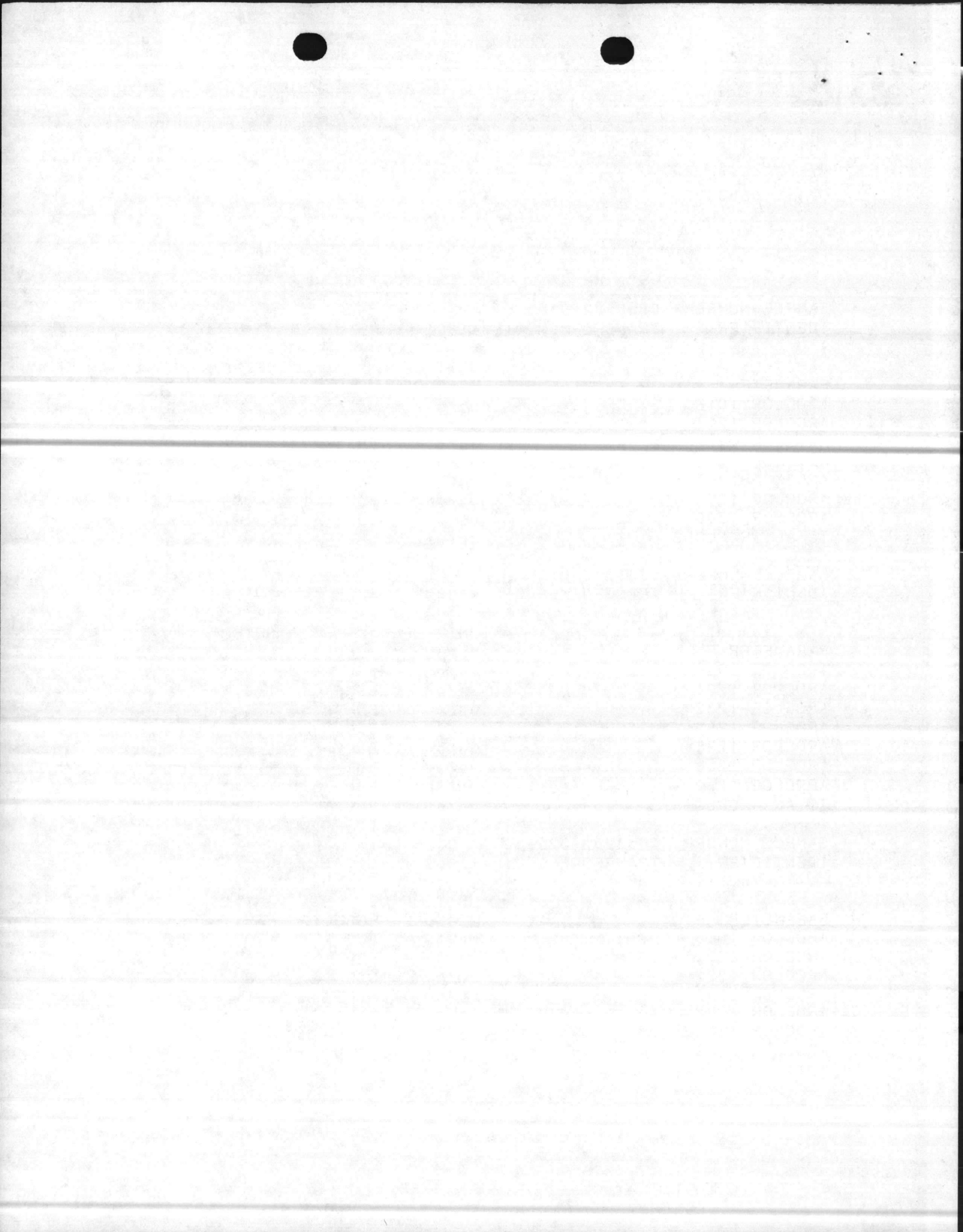
PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-019
IDENTIFIER: TRANSFORMER OIL #1302*Westinghouse 25 KVA 25
Ser. 4811364*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-020
IDENTIFIER: TRANSFORMER OIL #1303*GE 5 KVA 30 Gal
Ser. # D305901*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	130	1.0	EPA
TOTAL AROCLORS	ug/g	130	1.0	EPA





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SAMPLE NUMBER: 0853202-021
IDENTIFIER: TRANSFORMER OIL #1304

*Line Material 37.5 Kv
Ser. # E 5184204*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	10	1.0	EPA
TOTAL AROCLORS	ug/g	10	1.0	EPA

SAMPLE NUMBER: 0853202-022
IDENTIFIER: TRANSFORMER OIL #1305

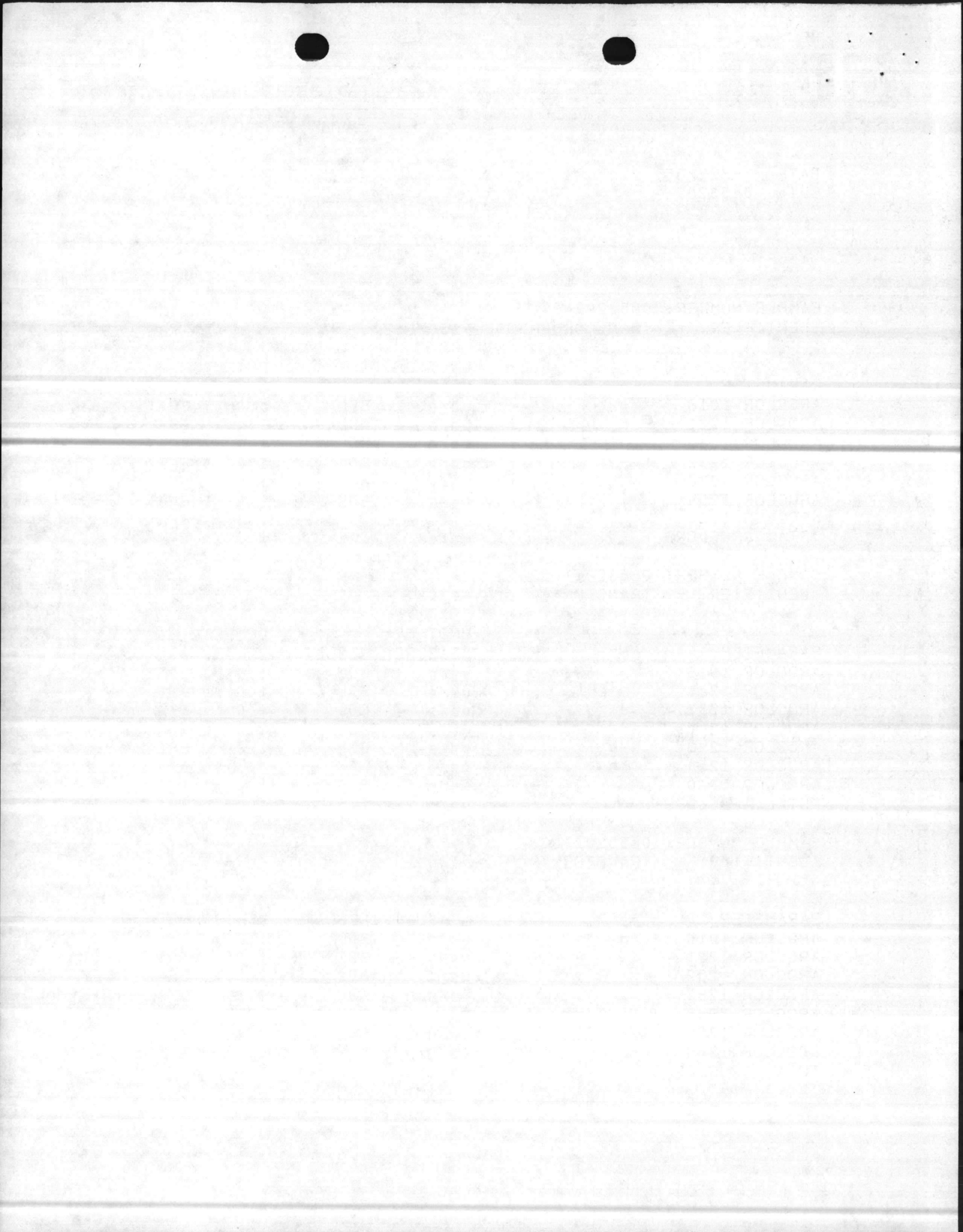
*Westinghouse 37.5 Kv
Ser. # 55K4876*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	5.5	1.0	EPA
TOTAL AROCLORS	ug/g	5.5	1.0	EPA

SAMPLE NUMBER: 0853202-023
IDENTIFIER: TRANSFORMER OIL #1306

*Westinghouse 37.5 Kv
Ser. # 155K4786*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	5.2	1.0	EPA
TOTAL AROCLORS	ug/g	5.2	1.0	EPA



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SAMPLE NUMBER: 0853202-024
IDENTIFIER: TRANSFORMER OIL #1307*Westinghouse 37.5 KVA 20
Ser. # 5554760*

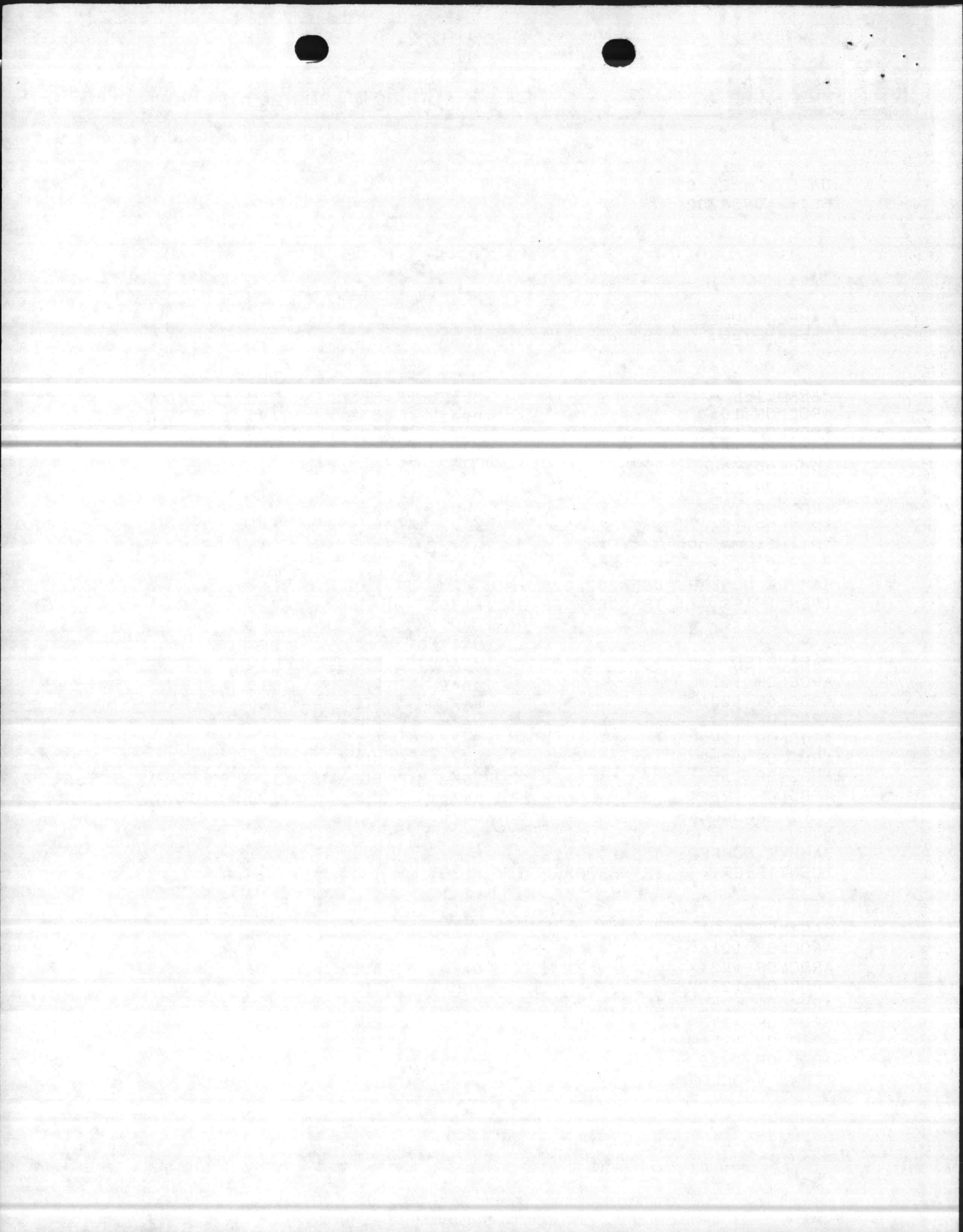
PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	5.3	1.0	EPA
TOTAL AROCLORS	ug/g	5.3	1.0	EPA

SAMPLE NUMBER: 0853202-025
IDENTIFIER: TRANSFORMER OIL #1308*Allis-Chalmers 75 KVA
Ser. # 1789913*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	3.8	1.0	EPA
TOTAL AROCLORS	ug/g	3.8	1.0	EPA

SAMPLE NUMBER: 0853202-026
IDENTIFIER: TRANSFORMER OIL #1309*Allis-Chalmers 75 KVA 30
Ser. # 3440362*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	6.7	1.0	EPA
TOTAL AROCLORS	ug/g	6.7	1.0	EPA



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SAMPLE NUMBER: 0853202-027
IDENTIFIER: TRANSFORMER OIL #1310GE 37.5 KVA 406
Ser. # D97856859

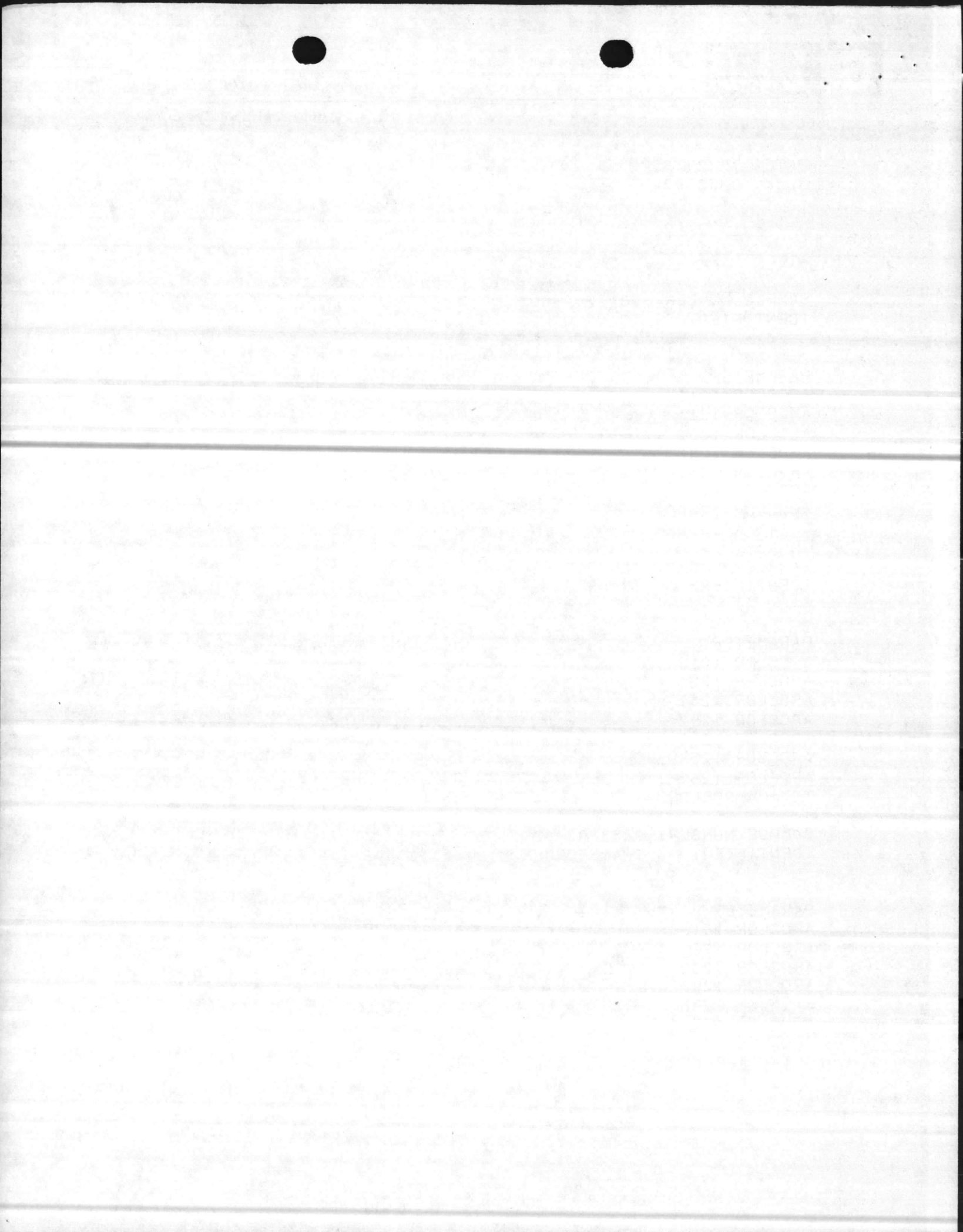
PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-028
IDENTIFIER: TRANSFORMER OIL #1311Wagner 37.5 KVA 306
Ser. # F5H1833

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	1.4	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	1.4	1.0	EPA

SAMPLE NUMBER: 0853202-029
IDENTIFIER: TRANSFORMER OIL #1312GE 37.5 KVA 306
Ser. # D97593359Y

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA



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SAMPLE NUMBER: 0853202-030
IDENTIFIER: TRANSFORMER OIL #1313

Wagner 37.5 KVA 34
Ser. # F5H1828

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	2.0	1.0	EPA
TOTAL AROCLORS	ug/g	2.0	1.0	EPA

SAMPLE NUMBER: 0853202-031
IDENTIFIER: TRANSFORMER OIL #1314

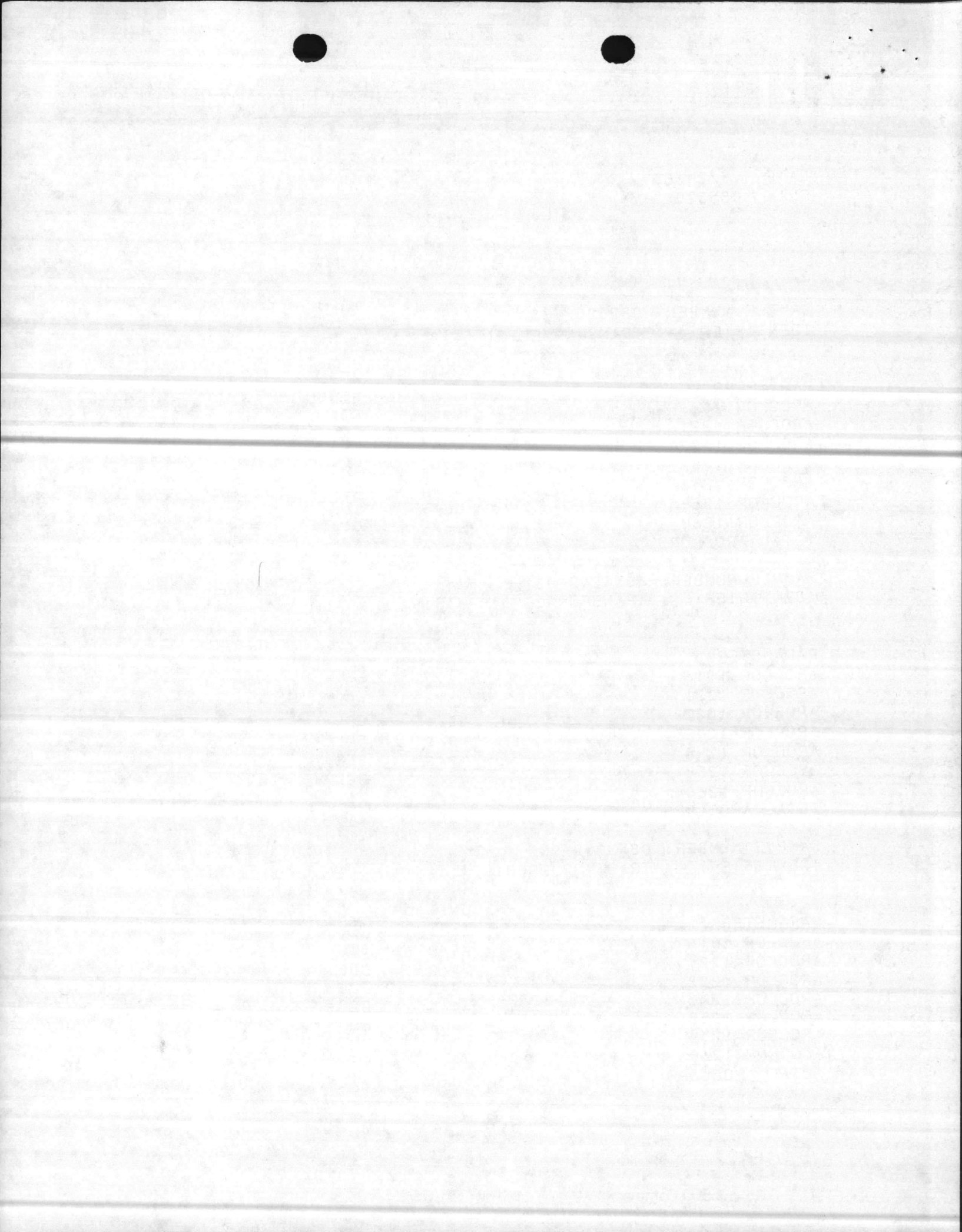
GE 75 KVA 50621
Ser. # C119617

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	71	1.0	EPA
TOTAL AROCLORS	ug/g	71	1.0	EPA

SAMPLE NUMBER: 0853202-032
IDENTIFIER: TRANSFORMER OIL #1315

GE 100 KVA 50601
Ser. # B974341

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	99	1.0	EPA
TOTAL AROCLORS	ug/g	99	1.0	EPA



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SAMPLE NUMBER: 0853202-033
IDENTIFIER: TRANSFORMER OIL #1316

IGE 75 KVA 506a
Ser.# C12274

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	52	1.0	EPA
TOTAL AROCLORS	ug/g	(52)	1.0	EPA

SAMPLE NUMBER: 0853202-034
IDENTIFIER: TRANSFORMER OIL #1317

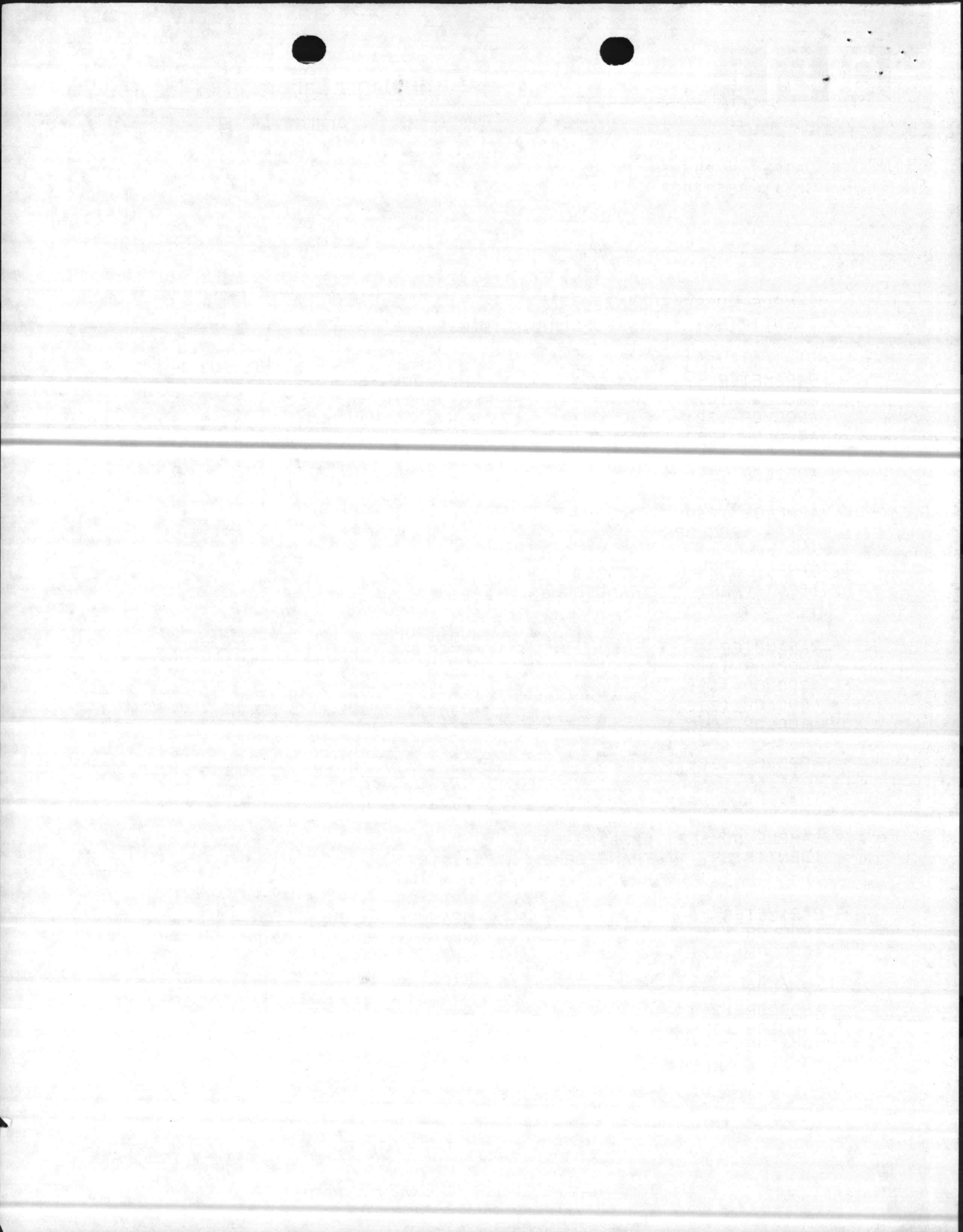
Line Material 100 KV
Ser.# 1162334

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-035
IDENTIFIER: TRANSFORMER OIL #1318

Wagner 25 KVA 256
Ser.# F-961480

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	20	1.0	EPA
TOTAL AROCLORS	ug/g	20	1.0	EPA



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SAMPLE NUMBER: 0853202-036
IDENTIFIER: TRANSFORMER OIL #1319*GE 15KVA 560
Ser. # E125204-60*

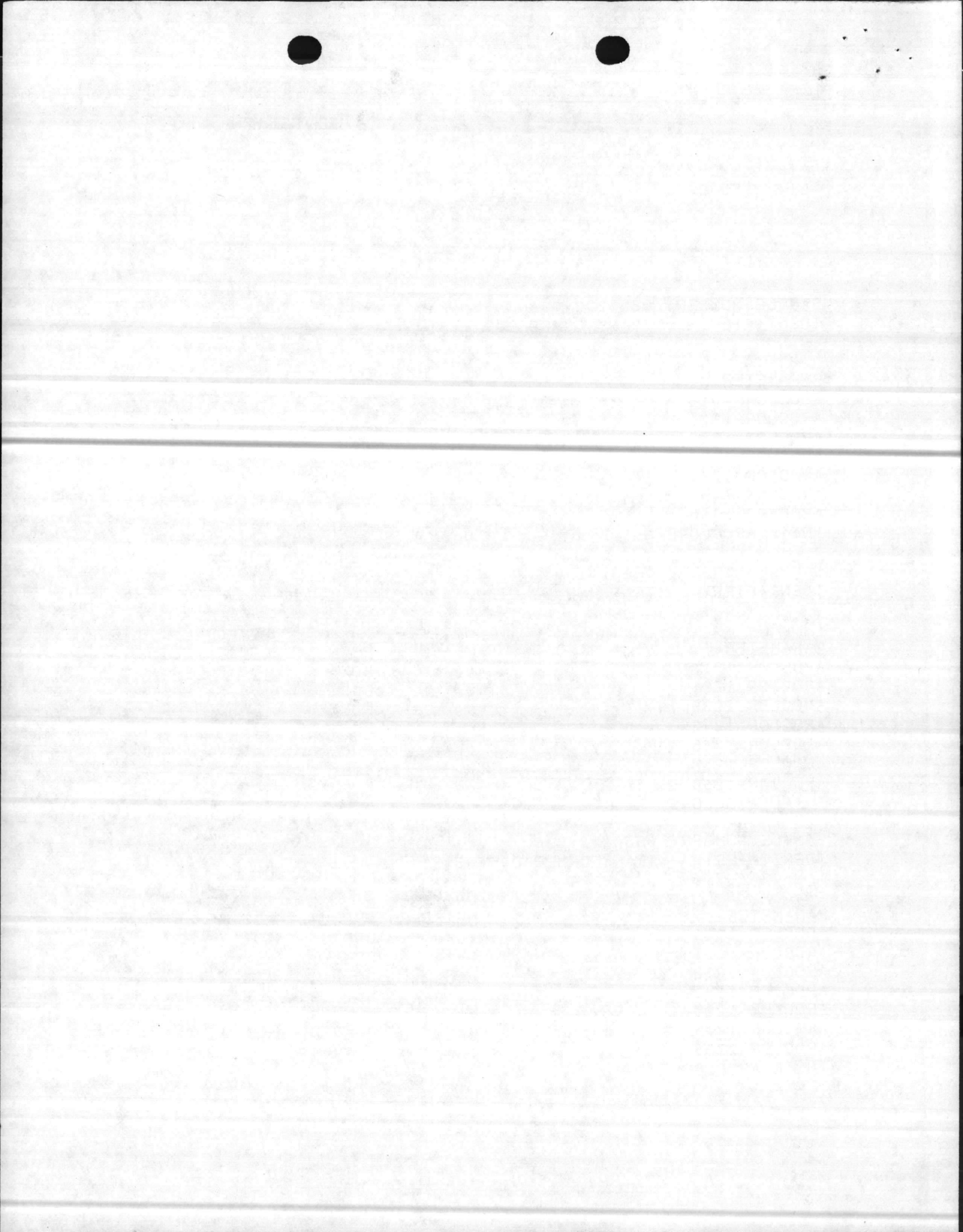
PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	2.6	1.0	EPA
TOTAL AROCLORS	ug/g	2.6	1.0	EPA

SAMPLE NUMBER: 0853202-037
IDENTIFIER: TRANSFORMER OIL #1320*Westinghouse 10KVA 5
Ser. # 65AD1336*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	4.4	1.0	EPA
TOTAL AROCLORS	ug/g	4.4	1.0	EPA

SAMPLE NUMBER: 0853202-038
IDENTIFIER: TRANSFORMER OIL #1321*Allis-Chalmers 50KVA
Ser. # 1810179*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	11	1.0	EPA
TOTAL AROCLORS	ug/g	11	1.0	EPA



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SAMPLE NUMBER: 0853202-039
IDENTIFIER: TRANSFORMER OIL #1322

GE 75 KVA 406
Ser. # C127301

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	52	1.0	EPA
TOTAL AROCLORS	ug/g	52	1.0	EPA

SAMPLE NUMBER: 0853202-040
IDENTIFIER: TRANSFORMER OIL #1324

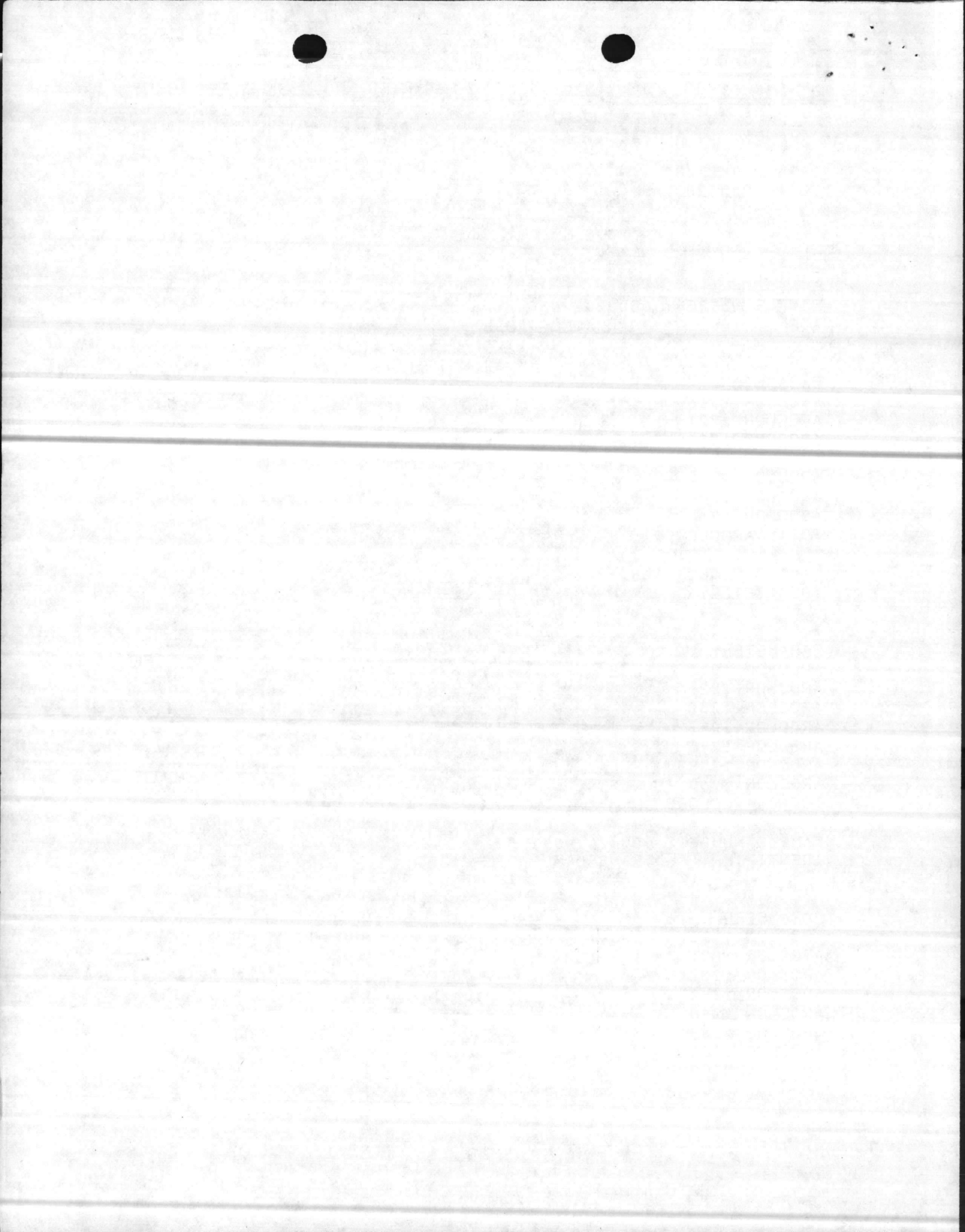
GE 25 KVA 206a1
Ser. # D645594-58

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	2.0	1.0	EPA
TOTAL AROCLORS	ug/g	2.0	1.0	EPA

SAMPLE NUMBER: 0853202-041
IDENTIFIER: TRANSFORMER OIL #1325

Allis-Chalmers 50K V
Ser. # 3476930

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	6.8	1.0	EPA
TOTAL AROCLORS	ug/g	6.8	1.0	EPA



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SAMPLE NUMBER: 0853202-042
IDENTIFIER: TRANSFORMER OIL #1326

*Westinghouse 5KVA
Ser. # 66 AB 2254*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	1.7	1.0	EPA
TOTAL AROCLORS	ug/g	1.7	1.0	EPA

SAMPLE NUMBER: 0853202-043
IDENTIFIER: TRANSFORMER OIL #1328

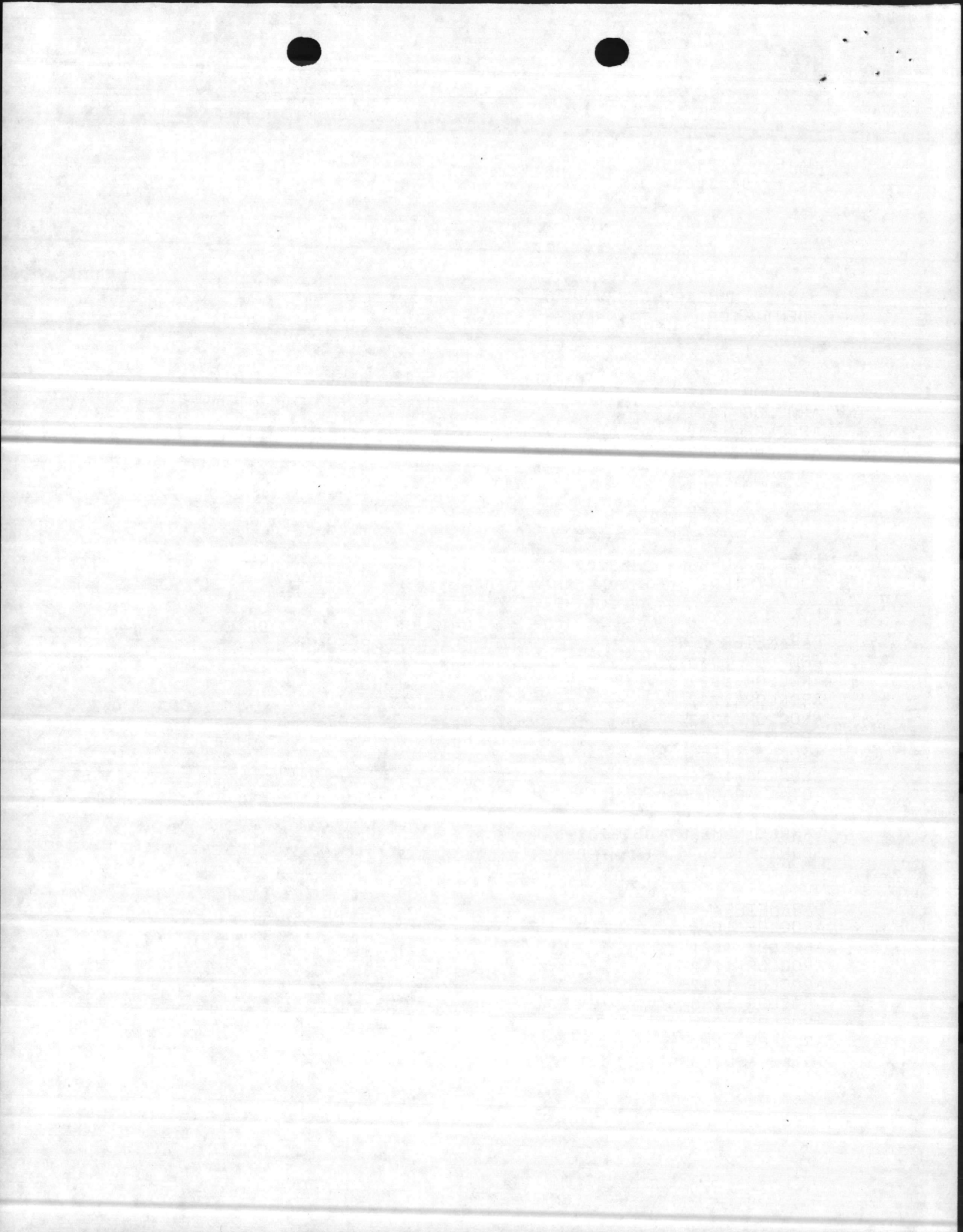
*Westinghouse 50KVA 25
Ser. # 6155400*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	3.4	1.0	EPA
TOTAL AROCLORS	ug/g	3.4	1.0	EPA

SAMPLE NUMBER: 0853202-044
IDENTIFIER: TRANSFORMER OIL #1329

*Allis-Chalmers 50 KVA
Ser. # 1817713*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	2.9	1.0	EPA
TOTAL AROCLORS	ug/g	2.9	1.0	EPA



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SAMPLE NUMBER: 0853202-045
 IDENTIFIER: TRANSFORMER OIL #1330

*Kuhlman 25 KVA
 Ser.# 150845*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	BDL	1.0	EPA
TOTAL AROCLORS	ug/g	BDL	1.0	EPA

SAMPLE NUMBER: 0853202-046
 IDENTIFIER: TRANSFORMER OIL #1331

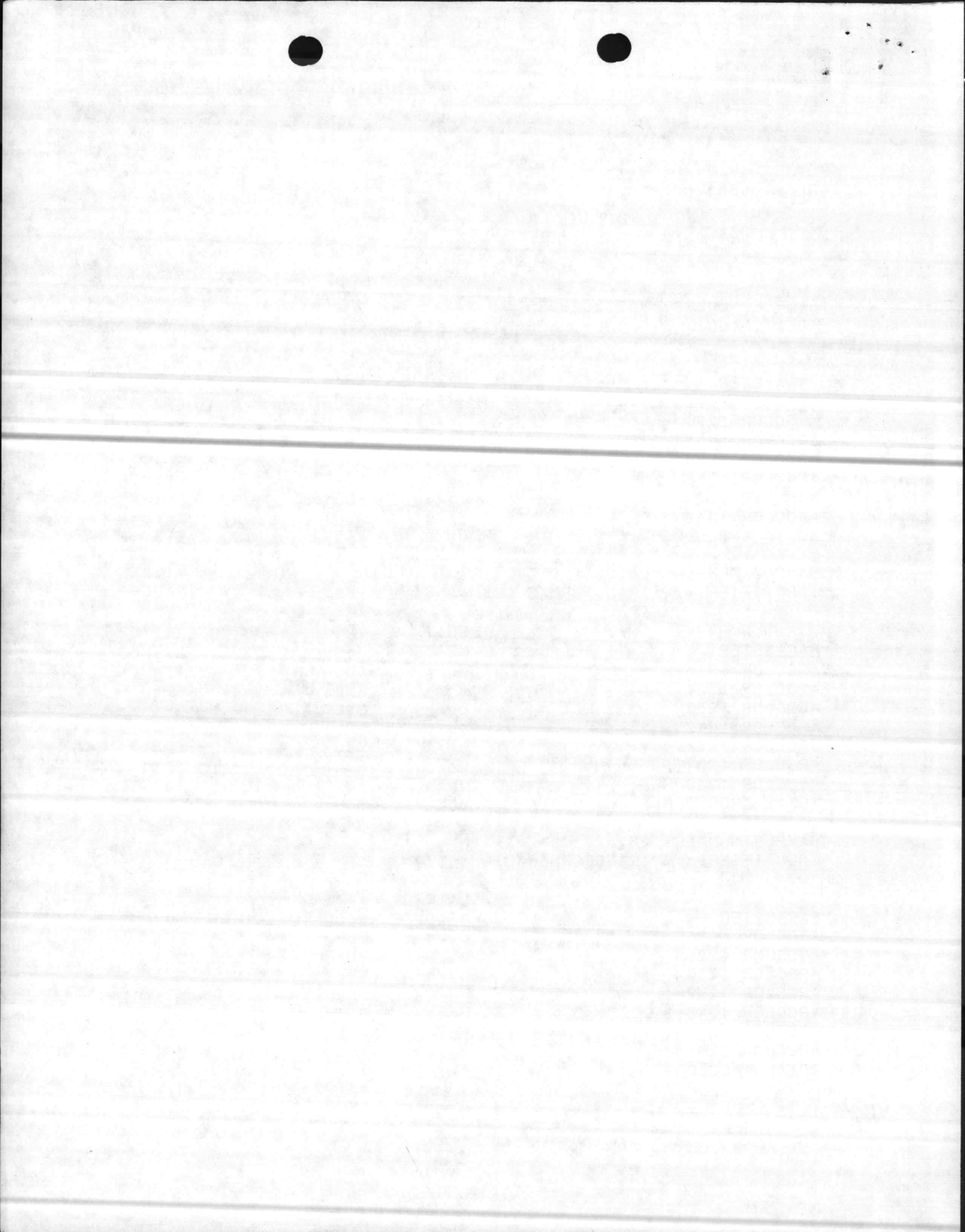
*Allis-Chalmers 37.5 KVA
 Ser.# 1833648*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	18	1.0	EPA
TOTAL AROCLORS	ug/g	18	1.0	EPA

SAMPLE NUMBER: 0853202-047
 IDENTIFIER: TRANSFORMER OIL #1332

*GE 50KVA 6262
 Ser.# B-9010211*

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	120	1.0	EPA
TOTAL AROCLORS	ug/g	(120)	1.0	EPA





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SAMPLE NUMBER: 0853202-048
IDENTIFIER: TRANSFORMER OIL #1333

GE 50KVA 6260
Ser # B-901022

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	BDL	1.0	EPA
AROCLOR 1260	ug/g	110	1.0	EPA
TOTAL AROCLORS	ug/g	(110)	1.0	EPA

SAMPLE NUMBER: 0853202-049
IDENTIFIER: TRANSFORMER OIL #1334

Westinghouse 50KVA 931
Ser # 60410832

PARAMETER	UNIT OF MEASURE	RESULT	DETECT LIMIT	METHOD
AROCLOR 1016	ug/g	BDL	1.0	EPA
AROCLOR 1221	ug/g	BDL	1.0	EPA
AROCLOR 1232	ug/g	BDL	1.0	EPA
AROCLOR 1242	ug/g	BDL	1.0	EPA
AROCLOR 1248	ug/g	BDL	1.0	EPA
AROCLOR 1254	ug/g	4.3	1.0	EPA
AROCLOR 1260	ug/g	4.2	1.0	EPA
TOTAL AROCLORS	ug/g	8.5	1.0	EPA

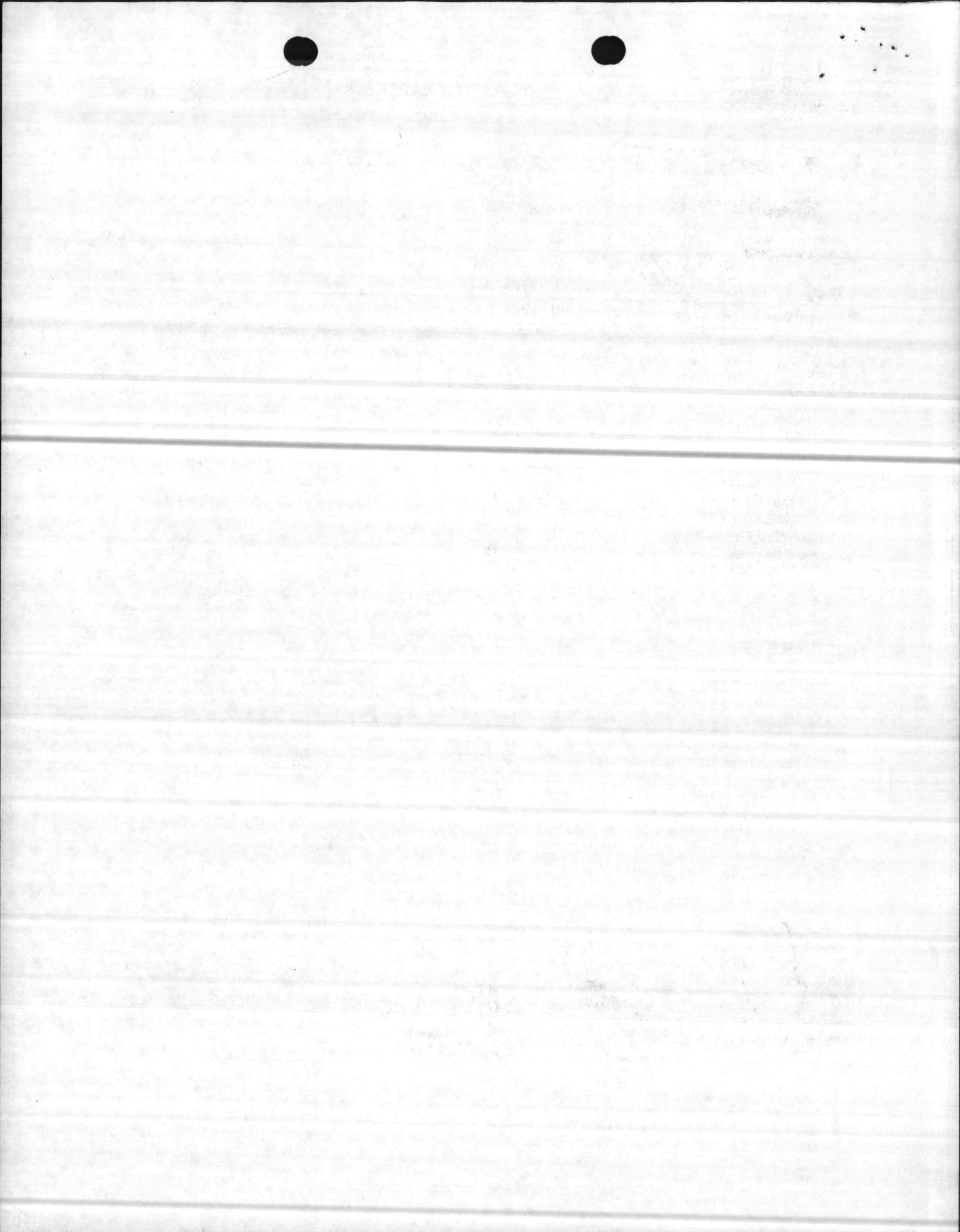
BDL: BELOW DETECTION LIMIT

APPROVED BY

Edgar E. Folk II
LABORATORY SUPERVISOR

William Paul Bufford
GENERAL LABORATORY MANAGER

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT OUR CUSTOMER SERVICE REPRESENTATIVE, ANITA STUTTS.



FOR WATER QUALITY CONTROL LABORATORY, MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA:

V. 5. Analytical Quality Assurance Procedures

BOD (Biochemical Oxygen Demand)

Normally the BOD samples received by this laboratory are unchlorinated. The samples are screened for chlorine before processing. Seeding is, therefore, not usually required. The dissolved oxygen meter is calibrated against a Winkler Titration with each batch of samples. Dilution water blanks are set up with each batch of dilution water. When blanks have depletions greater than 0.2 mg/l, the corresponding batch of samples is discarded. A set of glucose-glumatic acid standards, with seeding, is set up weekly. Duplication is done daily on one set of samples.

Coliform, Total & Fecal, MF & MPN

Incubator temperatures are read daily. Negative (Pre and Post) and positive controls are run with each set of samples. Any samples but potable water are run with at least two dilutions. Duplicates are also run daily. The laboratory maintains N.C. Microbiology certification for drinking water and all applicable quality control on media, sterilization of equipment, etc.

Oil and Grease

A standard and blank are run with each batch of samples

pH

Meters are standardized using low and high buffers daily. Monthly, meters are checked against certified buffers.

Residue, Solids

Oven temperatures are recorded on Laboratory Worksheets. A duplicate is analyzed daily.

General

All balances are zeroed daily. Analytical balance is checked against a set of standard weights monthly. All chemicals are analytical reagent grade. All reagents are dated when prepared. Copies of the 1979 EPA Methods and 15th Edition of Standard Methods are maintained in the Laboratory.

