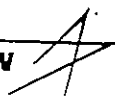


**PIT BURN PIT  
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**FINAL**

**LOCKHEED MARTIN BEAUMONT BURN PIT  
AREA REMEDIATION SYSTEM EVALUATION**

**Prepared for:**

Lockheed Martin Corporate Environment,  
Safety, and Health Program Office  
2550 N. Hollywood Way, 3<sup>rd</sup> Floor  
Burbank, California 91505-1055

**Prepared by:**

Radian International LLC  
16845 Von Karman, Suite 100  
Irvine, California 92606

24 September 1998

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modeling" to show that any residual contaminants will not to groundwater quality. Groundwater quality will not be E system shutdown as elevated total VOC levels in groundwater and groundwater extraction is still occurring.

water monitoring if contaminants exceeding target-screening in the vadose zone. Groundwater and soil vapor monitoring at a regular basis.

tinued vapor extraction is not thought necessary. Our ie SVE system and monitor soil vapors on a regular basis.

former Test Facility located  
(DC) levels in soil and  
groundwater extraction and

Basin (BPA) and the Rocket  
induced soil vapors and  
groundwater extraction (TPE)  
installed. At the RMPA,  
pumping method and air  
from the BPA toward the  
RMPA captures contaminated  
existing remediation systems

over the last four years, and  
objectives have been achieved. In  
wells with the highest  
concentrations since the initial soil vapor  
remediation system is  
shut down, Lockheed Martin  
TPE system was turned off and  
concentrations would rise

The argument that the overall  
risks and sources has been

*Hydrogeologic Study*

*Remediation System 6-*

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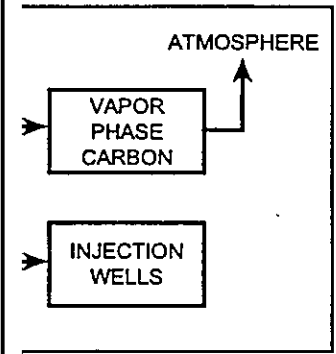
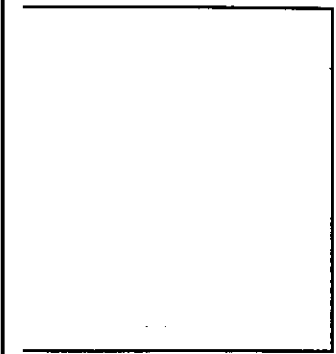
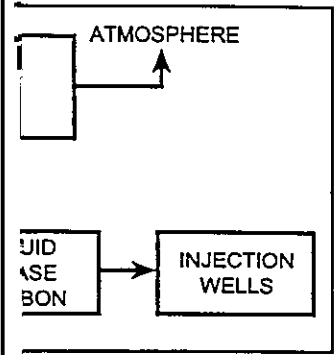
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**Figure 1-3. Burn Pit Area Site Map**

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The SVE system has reduced soil vapor concentrations  
levels. As a result, further continuous vapor extraction is not th

ly low, non-rebounding  
necessary.



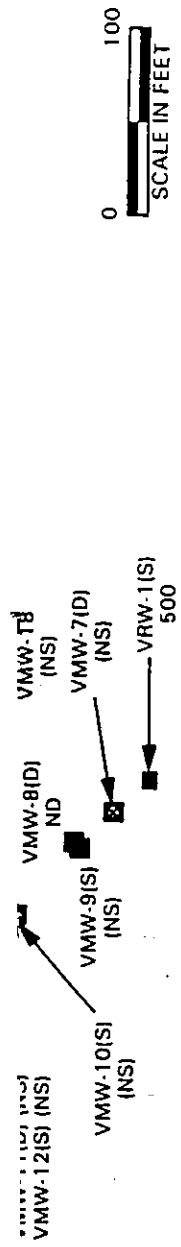


Figure 2-2. Soil Vapor Concentrations Beneath the BPA, June 1996

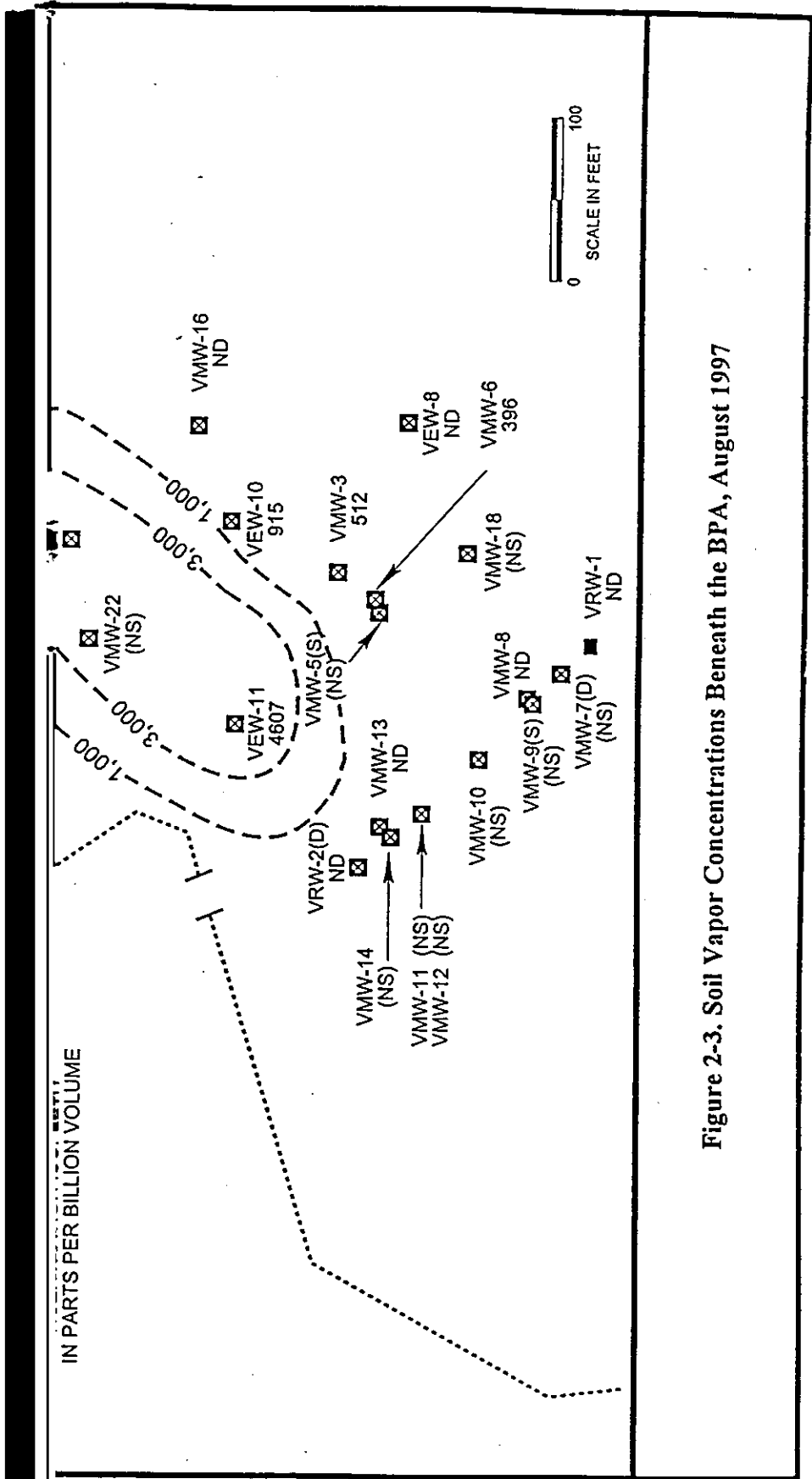


Figure 2-3. Soil Vapor Concentrations Beneath the BPA, August 1997

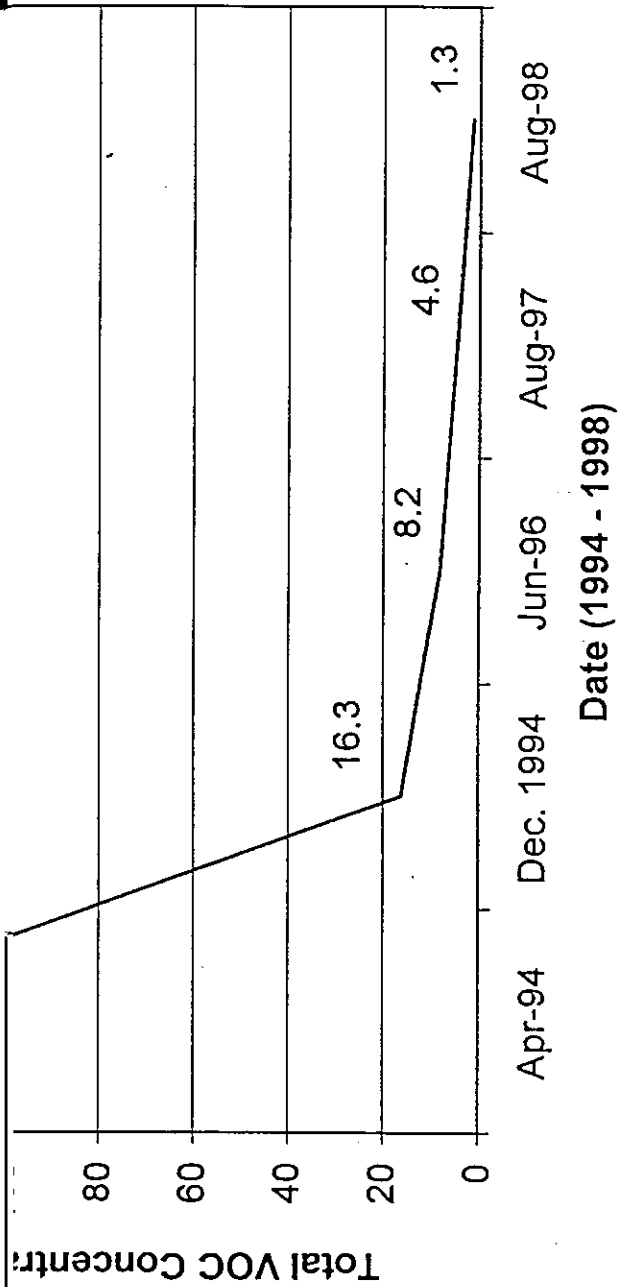


Figure 2-4. Reduction of Total VOCs at BPA Over Time

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Date (1997 - 1998)

Figure 2-5. Rebound Data for Wells VEW-6 and VEW-11

7 Observed  
 Spring Wells

Percent Vapor Reduction Result (by)	Percent Reduction
July 98)	83
Aug 97)	>99
July 98)	96
July 98)	96
Aug 97)	>99
Aug 97)	>99
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**Appendix A**

**Laboratory Analyses Results and Field Monitoring Results**

Field OVM (ppm)	<1*	<1	<1	<1	1.1	0.6	0.8	0.4	<1	2.1
-----------------	-----	----	----	----	-----	-----	-----	-----	----	-----

\* - OVM reading of 0 is interpreted as <1 because OVM rounds down (e.g., .6 is displayed as 0).

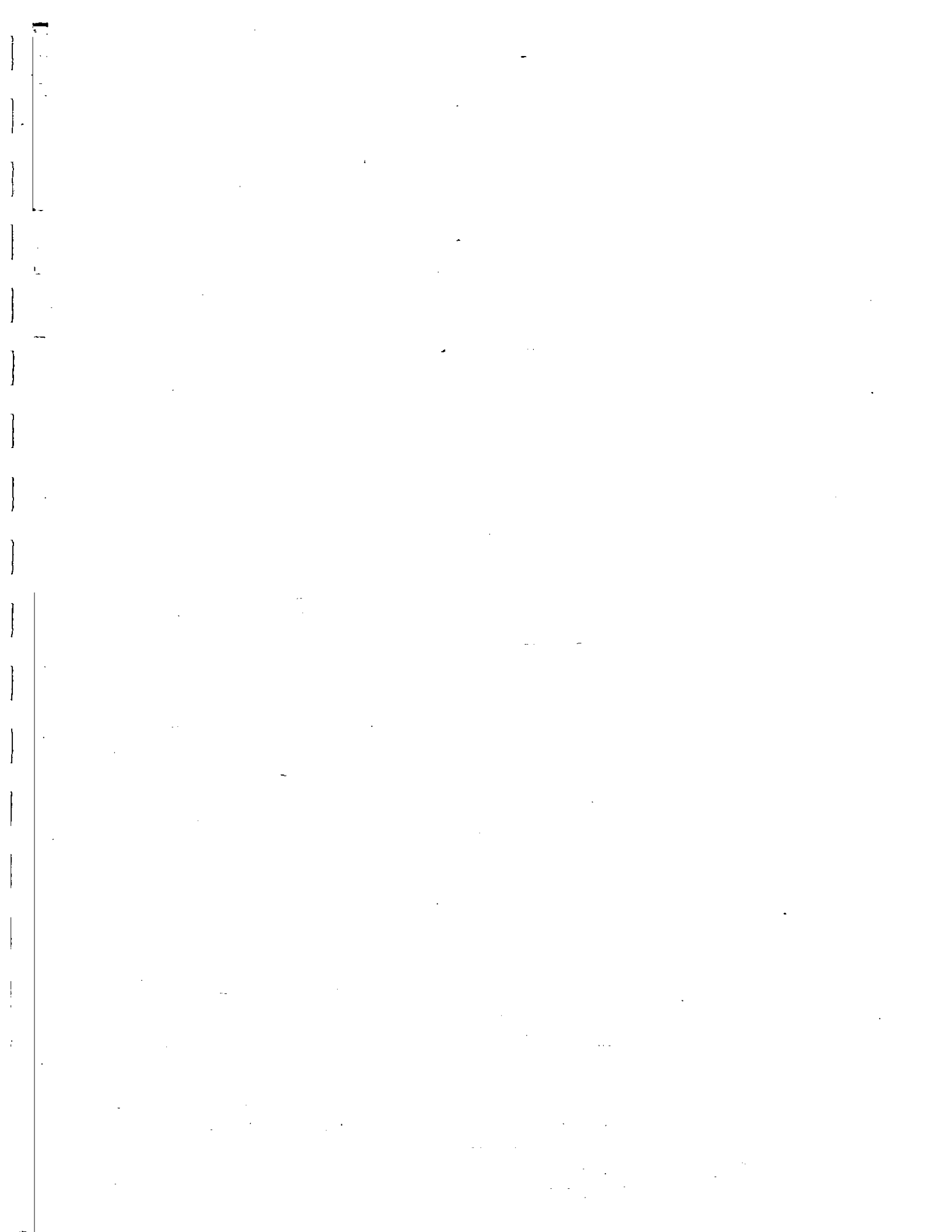
Note: OVA Cleaned after 27 May sampling event. OVM readings between 27-May and 15-July are considered representative. Readings for 15 July are not considered representative because OVM lamp may be dirty.

Field OVA (ppm)	0.0	0.0	0.6	0.6	0.6	1.0	0.2	NA <sup>b</sup>	0.0	0.0
Field OVM (ppm)	<1 <sup>a</sup>	<1	<1	<1	<1	0.0	0.0	0.0	0.0	0.0

<sup>a</sup> - OVM reading of 0 is interpreted as <1 because OVM rounds down (e.g., .6 is displayed as 0).

<sup>b</sup> - Instrument went down.

Lab contaminin: 0.0



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DISPOSAL UNIT NUMBER	DATE	TIME	TRAINING VEHICLE NUMBER	DATE	TIME
	/ /	:		/ /	:

WHITE - DATA MANAGEMENT / GOLDENROD - SAMPLE CONTROL / PINK - CUSTODY RECORD / YELLOW - LABORATORY

LABS TIGHT

RELEASED BY: *[Signature]* DATE: 7/16/98 TIME: 10:00

RECEIVED BY: *[Signature]* DATE: 7/16/98 TIME: 10:00

DISPOSAL CONFIRMED BY: DATE: / / TIME: :

CHAIN-OF-CUSTODY RETURNED BY: DATE: / / TIME: :



DISPOSAL CONFIRMED BY	DATE	TIME	CHAIN-OF-CUSTODY RETURNED BY	DATE	TIME
<i>John W. Smith</i>	6/1/98	09:25	<i>John W. Smith</i>	6/1/98	09:25

CEL - D429



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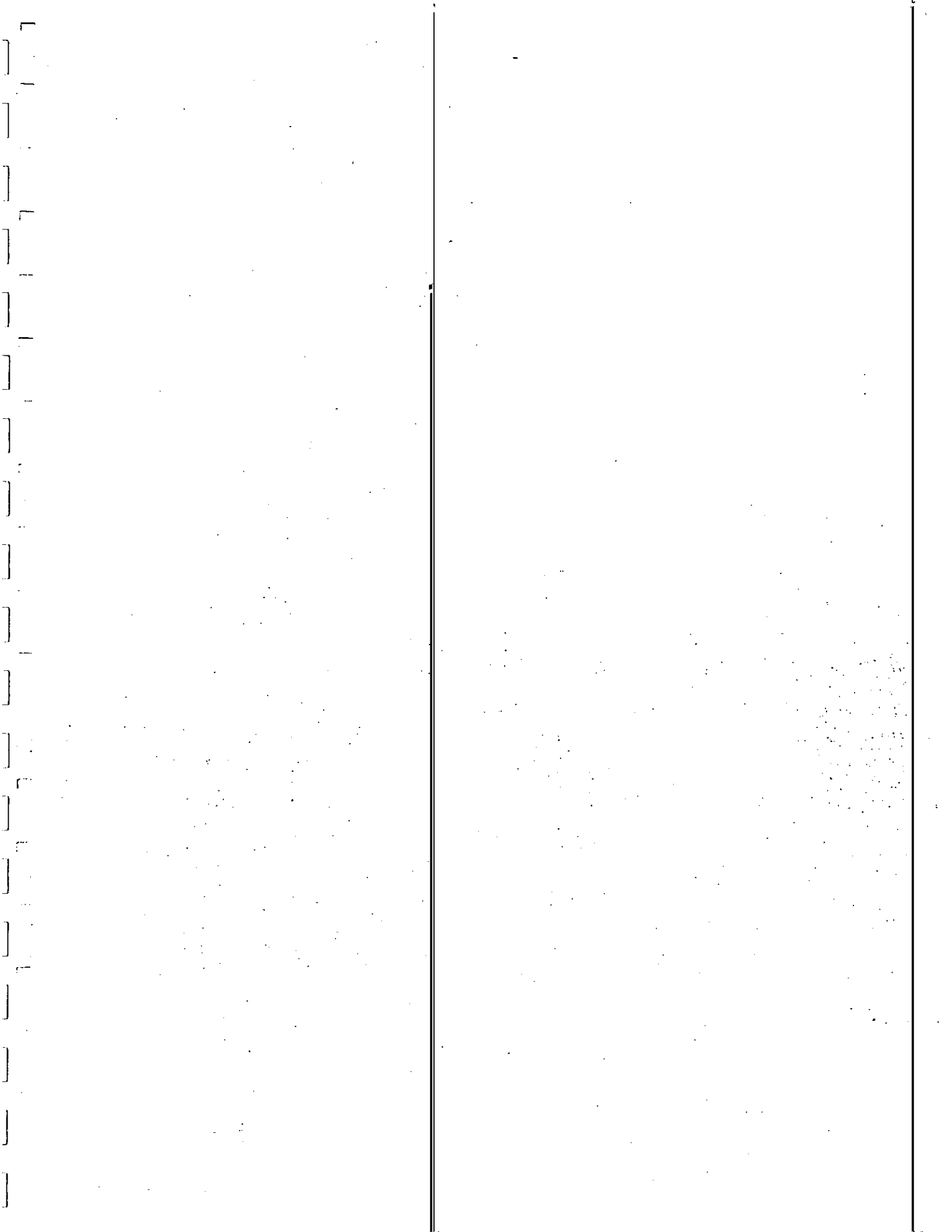
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Quality Control - LCS/LCS Duplicate  
EPA TO-14 Full List

Instrument: GC/MS E  
Date Extracted: N/A  
Date Analyzed: 06/18/98

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<u>%REC</u>	<u>LCSD</u>	<u>%REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
2		82	60-140	0	0-30	
12		114	60-140	1	0-30	
7		98	60-140	1	0-30	
17		119	60-140	1	0-30	
00		101	60-140	0	0-30	
05		104	60-140	0	0-30	
13		114	60-140	0	0-30	
20		121	60-140	0	0-30	
26		128	60-140	1	0-30	
19		120	60-140	0	0-30	
22		123	60-140	0	0-30	
21		120	60-140	0	0-30	
25		125	60-140	0	0-30	

# GLOSSARY OF TERMS AND QUALIFIERS

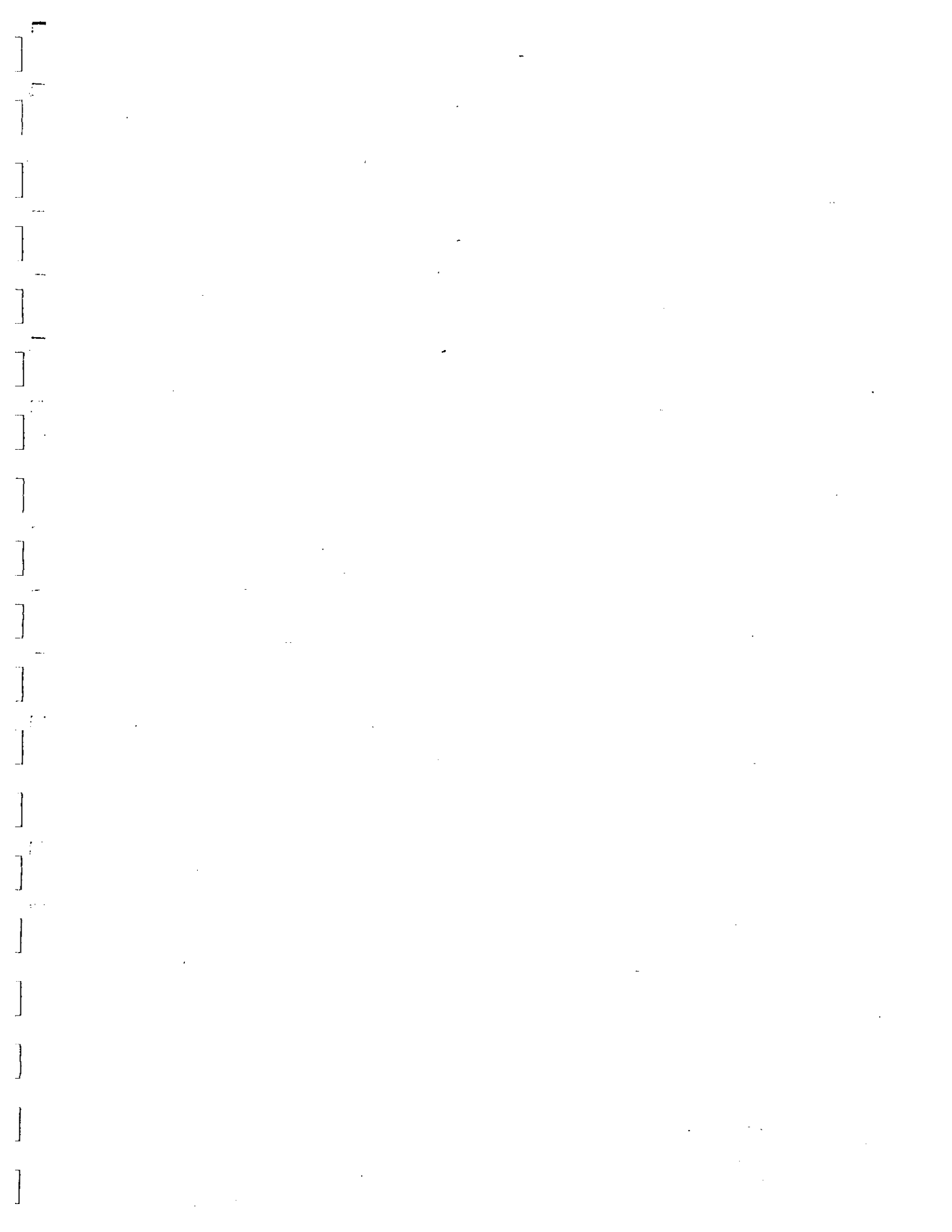
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*itories, Inc.*

Number: 98-06-0492

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<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.



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**ANALYTICAL REPORT**  
EPA TO-14 Full List

Name: RADIAN International, LLC  
Site ID: Low Vacuum Pulse Testing  
Order Number: 98-05-0515  
Batch ID: 980519  
Medium: Air  
Location: N/A  
Method: EPA TO-14  
Date Collected: 05/18/98  
Date Received: 05/19/98  
Date Prepared: N/A  
Date Analyzed: 05/19/98

Sample Number: LM98-05-001  
Sample Number: 98-05-0515-1

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
Propylene	396	18		ppb (v/v)
1,1-Dichloroethene	5.3	1.8		ppb (v/v)
o-Xylene	ND	1.8		ppb (v/v)
m-Xylene	ND	1.8		ppb (v/v)
p-Xylene	ND	3.7		ppb (v/v)
Acetone	ND	1.8		ppb (v/v)
Acetone	ND	3.7		ppb (v/v)
1,2-Dichloroethane	ND	1.8		ppb (v/v)
1,1-Dichloroethane	ND	1.8		ppb (v/v)
o-Toluenesulfonamide	ND	1.8		ppb (v/v)
1,2,4-Trichlorobenzene	ND	1.8		ppb (v/v)
1,3,5-Trichlorobenzene	ND	1.8		ppb (v/v)
1,1,1-Trichloroethane	ND	1.8		ppb (v/v)
1,1,2-Trichloroethane	ND	1.8		ppb (v/v)
1,2,3-Trichlorobenzene	ND	1.8		ppb (v/v)
1,2,4-Trichlorobenzene	ND	1.8		ppb (v/v)
1,3,5-Trichlorobenzene	ND	1.8		ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	1.8		ppb (v/v)

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# ANALYTICAL REPORT

## EPA TO-14 Full List

International, LLC  
Pulse Testing

Date Collected: 05/18/98  
Date Received: 05/19/98  
Date Prepared: N/A  
Date Analyzed: 05/19/98

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<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
113	0.9		ppb (v/v)
2.0	0.9		ppb (v/v)
ND	0.9		ppb (v/v)
ND	0.9		ppb (v/v)
ND	1.9		ppb (v/v)
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ND	0.9		ppb (v/v)

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# ANALYTICAL REPORT

EPA TO-14 Full List

RADIAN International, LLC  
 Low Vacuum Pulse Testing  
 98-05-0515  
 980519  
 Air  
 N/A  
 EPA TO-14

Date Collected: 05/18/98  
 Date Received: 05/19/98  
 Date Prepared: N/A  
 Date Analyzed: 05/19/98

Number: LM98-05-003  
 ID: 98-05-0515-3

	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
hane	ND	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
2-Tetrafluoroethane	ND	7.5		ppb (v/v)
	ND	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
	ND	3.8		ppb (v/v)
ane	ND	1.9		ppb (v/v)
	5.8	3.8		ppb (v/v)
	113	1.9		ppb (v/v)
	ND	7.5		ppb (v/v)
2-Trifluoroethane	4.4	3.8		ppb (v/v)
	ND	1.9		ppb (v/v)
e	ND	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
	ND	3.8		ppb (v/v)
	ND	3.8		ppb (v/v)
ie	ND	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
ne	278	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
ie	ND	1.9		ppb (v/v)
e	ND	1.9		ppb (v/v)
ane	ND	1.9		ppb (v/v)
Ether	ND	3.8		ppb (v/v)
ne	ND	1.9		ppb (v/v)
ne	ND	1.9		ppb (v/v)
ie	8.3	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
	ND	3.8		ppb (v/v)
ne	ND	3.8		ppb (v/v)
ane	ND	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)

ANALYTICAL REPORT

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Date Collected: 05/18/98  
Date Received: 05/19/98  
Date Prepared: N/A  
Date Analyzed: 05/19/98

<u>lit</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
2	1.9		ppb (v/v)
4	1.9		ppb (v/v)
D	1.9		ppb (v/v)
D	1.9		ppb (v/v)
D	3.8		ppb (v/v)
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**ANALYTICAL REPORT**

EPA TO-14 Full List

Name: RADIANT International, LLC  
 ID: Low Vacuum Pulse Testing  
 Order Number: 98-05-0515  
 Batch ID: 980519  
 Location: Air  
 : N/A  
 : EPA TO-14

Date Collected: 05/18/98  
 Date Received: 05/19/98  
 Date Prepared: N/A  
 Date Analyzed: 05/20/98

Sample Number: LM98-05-005  
 Sample Number: 98-05-0515-5

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
Ethene	ND	1.0		ppb (v/v)
Chloroethene	ND	1.0		ppb (v/v)
Benzene	ND	1.0		ppb (v/v)
Benzene	ND	1.0		ppb (v/v)
Ethene	ND	2.0		ppb (v/v)
Form	ND	1.0		ppb (v/v)
e	ND	2.0		ppb (v/v)
-Tetrachloroethane	ND	1.0		ppb (v/v)
ne	ND	1.0		ppb (v/v)
Toluene	ND	1.0		ppb (v/v)
Trimethylbenzene	ND	1.0		ppb (v/v)
Trimethylbenzene	ND	1.0		ppb (v/v)
Chloride	ND	1.0		ppb (v/v)
Chlorobenzene	ND	1.0		ppb (v/v)
Chlorobenzene	ND	1.0		ppb (v/v)
Chlorobenzene	ND	1.0		ppb (v/v)
Trichlorobenzene	ND	1.0		ppb (v/v)
Chloro-1,3-Butadiene	ND	1.0		ppb (v/v)



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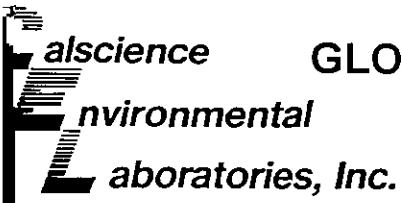
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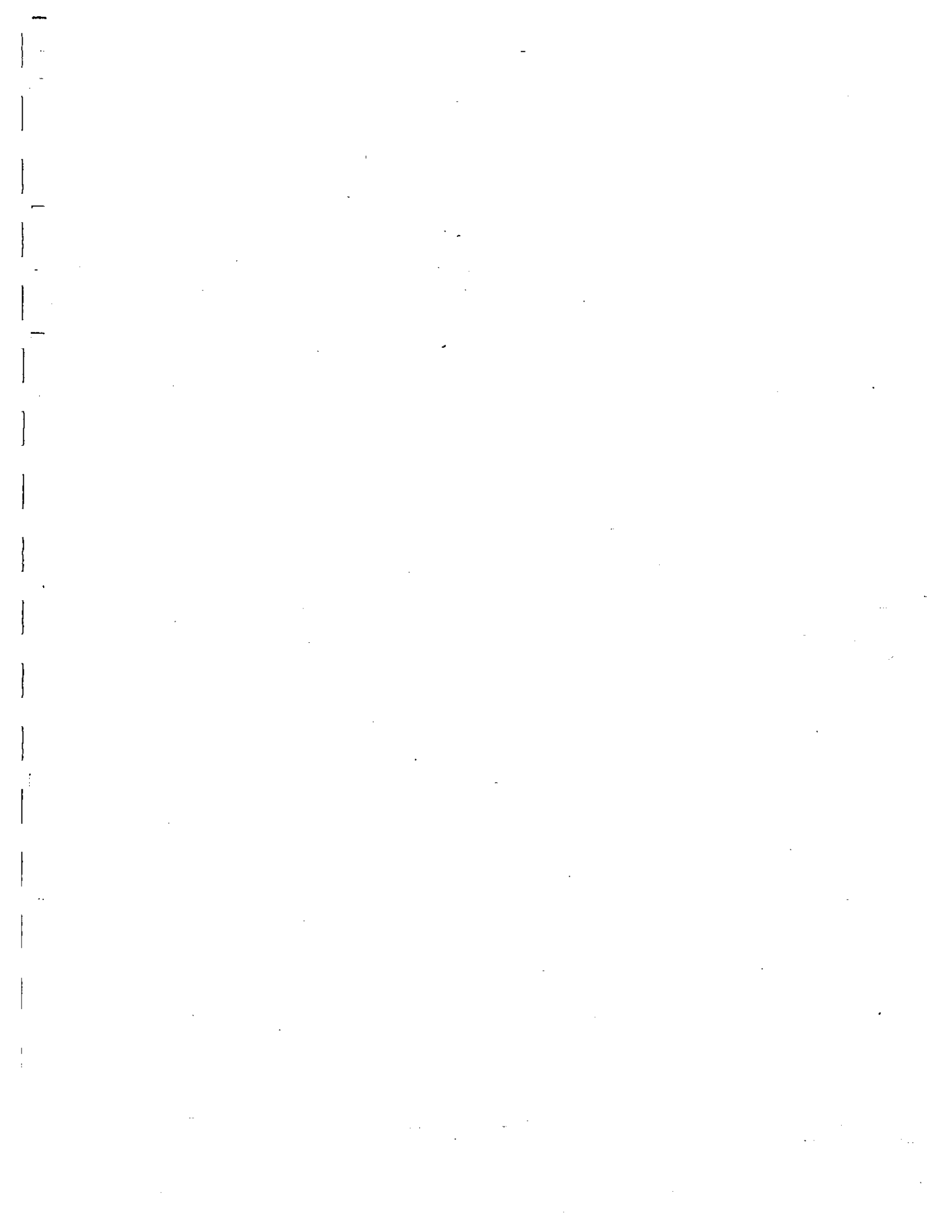


# GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 98-05-0515

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<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.

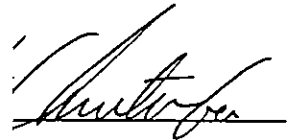


Testing

samples included in this  
documented chain-of-custody.

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395-5494.

A handwritten signature in cursive script, appearing to read "M. J. [unclear]", is written over a horizontal line.

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# ANALYTICAL REPORT

EPA TO-14 Full List

RADIAN International, LLC  
Low Vacuum Pulse Testing

er: 98-05-0768  
980529  
Air  
N/A  
EPA TO-14

Date Collected: 05/27/98  
Date Received: 05/28/98  
Date Prepared: N/A  
Date Analyzed: 05/29/98

mber: LM98-05-006  
er: 98-05-0768-1

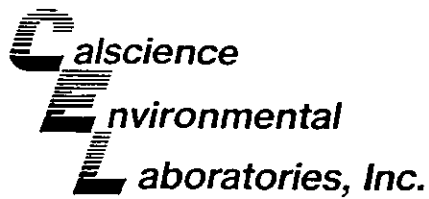
	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
	ND	0.9		ppb (v/v)
	ND	0.9		ppb (v/v)
	ND	0.9		ppb (v/v)
	ND	0.9		ppb (v/v)
	ND	1.9		ppb (v/v)
	ND	0.9		ppb (v/v)
	ND	1.9		ppb (v/v)
methane	ND	0.9		ppb (v/v)
	ND	0.9		ppb (v/v)
	ND	0.9		ppb (v/v)
zene	ND	0.9		ppb (v/v)
zene	ND	0.9		ppb (v/v)
	ND	0.9		ppb (v/v)
ne	ND	0.9		ppb (v/v)
ne	ND	0.9		ppb (v/v)
ne	ND	0.9		ppb (v/v)
zene	ND	0.9		ppb (v/v)
utadiene	ND	0.9		ppb (v/v)

PORT

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Collected: N/A  
 Received: N/A  
 Prepared: N/A  
 Analyzed: 05/29/98

<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
.5		ppb (v/v)
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10		ppb (v/v)
.5		ppb (v/v)
.5		ppb (v/v)
.5		ppb (v/v)
.5		ppb (v/v)
.0		ppb (v/v)
.5		ppb (v/v)
.0		ppb (v/v)
.5		ppb (v/v)
.0		ppb (v/v)
.0		ppb (v/v)
.5		ppb (v/v)
.5		ppb (v/v)
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.5		ppb (v/v)
.5		ppb (v/v)
.0		ppb (v/v)
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.5		ppb (v/v)
.5		ppb (v/v)
.0		ppb (v/v)
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.5		ppb (v/v)
.5		ppb (v/v)



**ANALYTICAL REPORT**  
EPA TO-14 Full List

Client Name:	RADIAN International, LLC	Date Collected:	N/A
Project ID:	Low Vacuum Pulse Testing	Date Received:	N/A
Work Order Number:	98-05-0768	Date Prepared:	N/A
QC Batch ID:	980529	Date Analyzed:	05/29/98
Matrix:	Air		
Preparation:	N/A		
Method:	EPA TO-14		

Client Sample Number: **Method Blank**  
 Lab Sample Number: 095-01-021-447

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Ethylbenzene	ND	0.5		ppb (v/v)
p/m-Xylene	ND	1.0		ppb (v/v)
Bromoform	ND	0.5		ppb (v/v)
Styrene	ND	1.0		ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	0.5		ppb (v/v)
o-Xylene	ND	0.5		ppb (v/v)
4-Ethyltoluene	ND	0.5		ppb (v/v)
1,3,5-Trimethylbenzene	ND	0.5		ppb (v/v)
1,2,4-Trimethylbenzene	ND	0.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2,4-Trichlorobenzene	ND	0.5		ppb (v/v)
Hexachloro-1,3-Butadiene	ND	0.5		ppb (v/v)

lity Control - LCS/LCS Duplicate  
EPA TO-14 Full List

Instrument: GC/MS E  
Date Extracted: N/A  
Date Analyzed: 05/29/98

<u>%REC</u>	<u>LCSD</u>	<u>%REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
99		96	60-140	3	0-30	
100		101	60-140	0	0-30	
101		100	60-140	0	0-30	
108		107	60-140	0	0-30	
83		85	60-140	2	0-30	
81		83	60-140	2	0-30	
92		92	60-140	0	0-30	
94		94	60-140	0	0-30	
96		96	60-140	0	0-30	
100		99	60-140	1	0-30	
96		94	60-140	2	0-30	
102		90	60-140	12	0-30	
97		86	60-140	12	0-30	

**UALIFIERS**



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ared: N/A  
zed: 06/05/98

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<u>Qualifiers</u>	<u>Units</u>
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## GLOSSARY OF TERMS AND QUALIFIERS

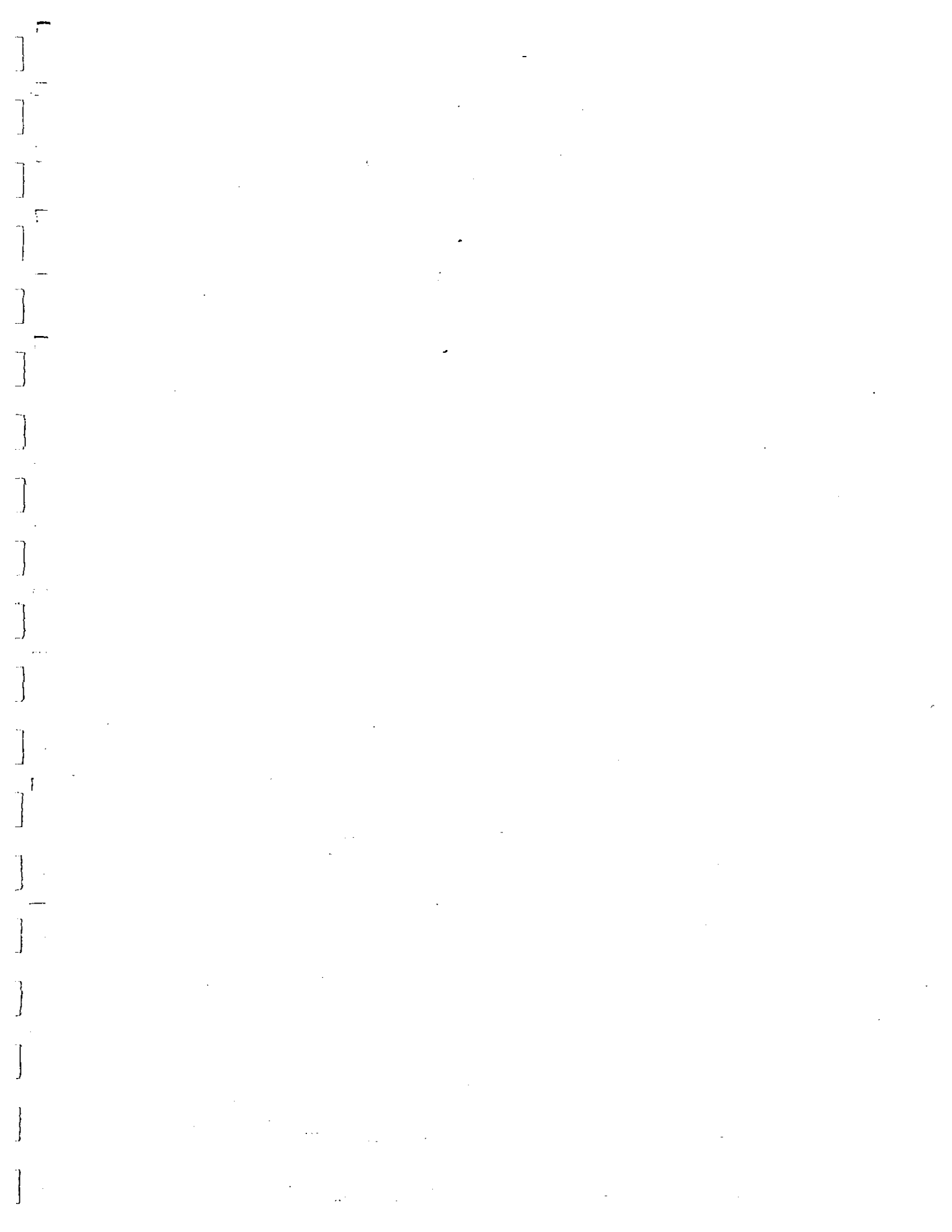
ronmental

laboratories, Inc.

ork Order Number: 98-06-0159

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<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.

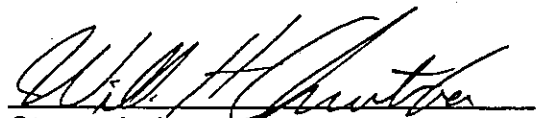


98-06-0317  
Lockheed

erenced project. The samples included in this  
ccordance with the attached chain-of-custody.

he samples tested, and any reproduction of

quire sampling supplies or field services, or  
free to call me at (714) 895-5494.



Steven L. Lane  
Laboratory Director

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# L REPORT

## Full List

Date Collected: 06/10/98  
Date Received: 06/11/98  
Date Prepared: N/A  
Date Analyzed: 06/11/98

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<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
1.3		ppb (v/v)
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1.3		ppb (v/v)
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2.6		ppb (v/v)
1.3		ppb (v/v)
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1.3		ppb (v/v)
1.3		ppb (v/v)
1.3		ppb (v/v)
2.6		ppb (v/v)
1.3		ppb (v/v)
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# LCS/LCS Duplicate

-14 Full List

Instrument: GC/MS E

Date Extracted: N/A

Date Analyzed: 06/11/98

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<u>%REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
3	60-140	6	0-30	
2	60-140	6	0-30	
3	60-140	2	0-30	
5	60-140	4	0-30	
2	60-140	1	0-30	
0	60-140	1	0-30	
3	60-140	0	0-30	
3	60-140	0	0-30	
6	60-140	0	0-30	
7	60-140	3	0-30	
3	60-140	2	0-30	
3	60-140	4	0-30	
6	60-140	2	0-30	



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, LLC  
venue, Suite 100

ice Work Order Number: 98-07-0344  
eference: Low Vacuum Pulse Testing Unit 8

ical report for the above-referenced project. The samples included in this  
07/16/98 and analyzed in accordance with the attached chain-of-custody.

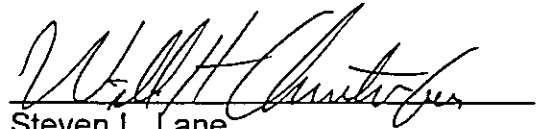
alytical report are limited to the samples tested, and any reproduction of  
ade in its entirety.

ions regarding this report, require sampling supplies or field services, or  
alytical services, please feel free to call me at (714) 895-5494.



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Steven L. Lane  
Laboratory Director

# ANALYTICAL REPORT

EPA TO-14 Full List

LC  
Sampling Unit 8

Date Collected: 07/15/98  
Date Received: 07/16/98  
Date Prepared: N/A  
Date Analyzed: 07/20/98

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<u>ult</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
ND	0.9		ppb (v/v)
ND	0.9		ppb (v/v)
ND	3.5		ppb (v/v)
ND	0.9		ppb (v/v)
ND	1.7		ppb (v/v)
ND	0.9		ppb (v/v)
ND	0.9		ppb (v/v)
35	17		ppb (v/v)
ND	0.9		ppb (v/v)
91	17		ppb (v/v)
03	9		ppb (v/v)
ND	3.5		ppb (v/v)
ND	1.7		ppb (v/v)
ND	0.9		ppb (v/v)
ND	0.9		ppb (v/v)
1.3	0.9		ppb (v/v)
ND	1.7		ppb (v/v)
.1	1.7		ppb (v/v)
ND	0.9		ppb (v/v)
ND	0.9		ppb (v/v)
.4	0.9		ppb (v/v)
.0	0.9		ppb (v/v)
ND	0.9		ppb (v/v)
.3	0.9		ppb (v/v)
ND	0.9		ppb (v/v)
.4	0.9		ppb (v/v)
ND	1.7		ppb (v/v)
ID	0.9		ppb (v/v)
ID	0.9		ppb (v/v)
ID	0.9		ppb (v/v)
ID	0.9		ppb (v/v)
ID	1.7		ppb (v/v)
ID	1.7		ppb (v/v)
ID	0.9		ppb (v/v)

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Units

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# ANALYTICAL REPORT

EPA TO-14 Full List

LLC  
Testing Unit 8

Date Collected: N/A  
Date Received: N/A  
Date Prepared: N/A  
Date Analyzed: 07/20/98

<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	2.0		ppb (v/v)
ND	0.5		ppb (v/v)
ND	1.0		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	1.0		ppb (v/v)
ND	0.5		ppb (v/v)
ND	1.0		ppb (v/v)
ND	0.5		ppb (v/v)
ND	2.0		ppb (v/v)
ND	1.0		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	1.0		ppb (v/v)
ND	1.0		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	1.0		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	0.5		ppb (v/v)
ND	1.0		ppb (v/v)
ND	1.0		ppb (v/v)
ND	0.5		ppb (v/v)

# ANALYTICAL REPORT

EPA TO-14 Full List

LC  
Sampling Unit 8

Date Collected: N/A  
Date Received: N/A  
Date Prepared: N/A  
Date Analyzed: 07/20/98

<u>Ult</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	1.0		ppb (v/v)
D	0.5		ppb (v/v)
D	1.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)
D	0.5		ppb (v/v)

- LCS/LCS Duplicate

O-14 Full List

Instrument: GC/MS E

Date Extracted: N/A

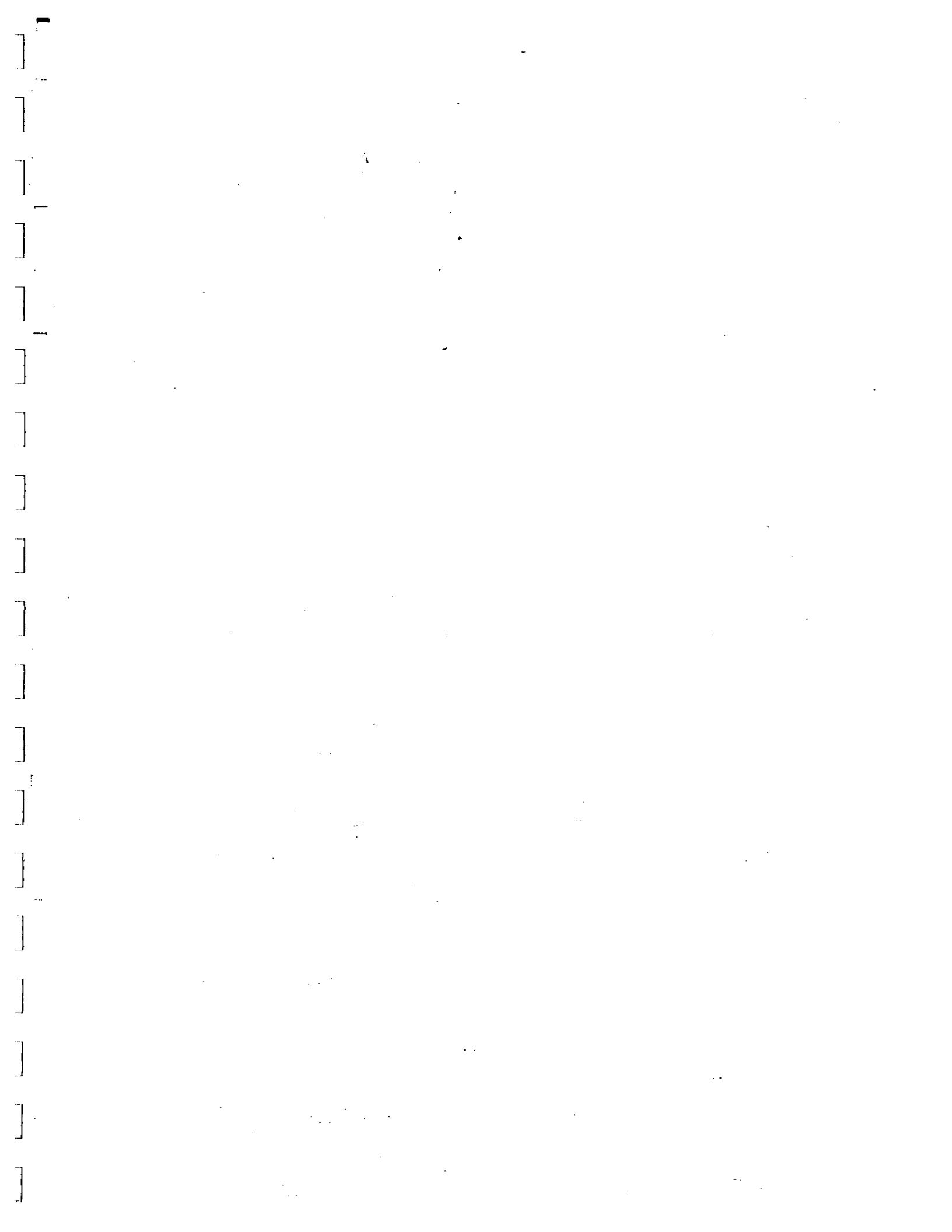
Date Analyzed: 07/20/98

<u>%REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
38	60-140	28	0-30	
31	60-140	28	0-30	
38	60-140	22	0-30	
32	60-140	13	0-30	
34	60-140	17	0-30	
78	60-140	8	0-30	
32	60-140	4	0-30	
79	60-140	19	0-30	
77	60-140	6	0-30	
79	60-140	22	0-30	
74	60-140	21	0-30	
34	60-140	12	0-30	
33	60-140	6	0-30	

Work Order Number: 98-07-0344

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<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.





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0/98

5/98

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Units

pb (v/v)  
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 oratories, Inc.

# ANALYTICAL REPORT

EPA TO-14 Full List

RADIAN International, LLC  
 Vapor Pulse Test/67515815.1000

ber:	98-07-0761	Date Collected:	07/29/98
	980805A	Date Received:	07/30/98
	Air	Date Prepared:	N/A
	N/A	Date Analyzed:	08/05/98
	EPA TO-14		

umber: LM98-07-003  
 ber: 98-07-0761-2

	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
methane	ND	1.8		ppb (v/v)
	ND	1.8		ppb (v/v)
2,2-Tetrafluoroethane	ND	7.4		ppb (v/v)
	ND	1.8		ppb (v/v)
	ND	1.8		ppb (v/v)
	ND	1.8		ppb (v/v)
	ND	3.7		ppb (v/v)
ethane	ND	1.8		ppb (v/v)
	7.2	3.7		ppb (v/v)
ne	247	1.8		ppb (v/v)
ide	ND	7.4		ppb (v/v)
2,2-Trifluoroethane	7.0	3.7		ppb (v/v)
	ND	1.8		ppb (v/v)
ene	ND	1.8		ppb (v/v)
ne	ND	1.8		ppb (v/v)
	ND	3.7		ppb (v/v)
	4.3	3.7		ppb (v/v)
hene	ND	1.8		ppb (v/v)
	ND	1.8		ppb (v/v)
ane	ND	1.8		ppb (v/v)
thane	30.8	1.8		ppb (v/v)
	ND	1.8		ppb (v/v)
loride	ND	1.8		ppb (v/v)
pane	ND	1.8		ppb (v/v)
methane	ND	1.8		ppb (v/v)
nyl Ether	ND	3.7		ppb (v/v)
opene	ND	1.8		ppb (v/v)
opene	ND	1.8		ppb (v/v)
thane	ND	1.8		ppb (v/v)
	ND	1.8		ppb (v/v)
	ND	3.7		ppb (v/v)
anone	ND	3.7		ppb (v/v)
methane	ND	1.8		ppb (v/v)

Science  
Environmental  
Laboratories, Inc.

**ANALYTICAL REPORT**  
EPA TO-14 Full List

Client: RADIANT International, LLC  
Vapor Pulse Test/67515815.1000  
Sample Number: 98-07-0761  
ID: 980805A Date Collected: 07/29/98  
Air Date Received: 07/30/98  
N/A Date Prepared: N/A  
EPA TO-14 Date Analyzed: 08/05/98

Sample Number: LM98-07-004  
ID Number: 98-07-0761-3

	<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
fluoromethane	ND	1.9		ppb (v/v)
thane	ND	1.9		ppb (v/v)
o-1,1,2,2-Tetrafluoroethane	ND	7.6		ppb (v/v)
ide	ND	1.9		ppb (v/v)
thane	ND	1.9		ppb (v/v)
ne	ND	1.9		ppb (v/v)
	ND	3.8		ppb (v/v)
loromethane	ND	1.9		ppb (v/v)
	13.0	3.8		ppb (v/v)
oethene	479	1.9	E	ppb (v/v)
Chloride	ND	7.6		ppb (v/v)
loro-1,2,2-Trifluoroethane	9.4	3.8		ppb (v/v)
sulfide	ND	1.9		ppb (v/v)
oroethene	ND	1.9		ppb (v/v)
oethane	5.8	1.9		ppb (v/v)
ite	ND	3.8		ppb (v/v)
	12.9	3.8		ppb (v/v)
oroethene	2.0	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
oethane	14.0	1.9		ppb (v/v)
loroethane	570	1.9	E	ppb (v/v)
	ND	1.9		ppb (v/v)
trachloride	ND	1.9		ppb (v/v)
opropane	ND	1.9		ppb (v/v)
loromethane	ND	1.9		ppb (v/v)
yl Vinyl Ether	ND	3.8		ppb (v/v)
oropropene	ND	1.9		ppb (v/v)
oropropene	ND	1.9		ppb (v/v)
loroethane	38.8	1.9		ppb (v/v)
	ND	1.9		ppb (v/v)
e	ND	3.8		ppb (v/v)
Pentanone	ND	3.8		ppb (v/v)
loromethane	ND	1.9		ppb (v/v)

ANALYTICAL REPORT

PA TO-14 Full List

C  
15.1000

Date Collected: 07/29/98  
Date Received: 07/30/98  
Date Prepared: N/A  
Date Analyzed: 08/05/98

<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
3.8		ppb (v/v)
1.9		ppb (v/v)
5.7		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)
1.9		ppb (v/v)



**ANALYTICAL REPORT**  
EPA TO-14 Full List

International, LLC  
se Test/67515815.1000

Date Collected: 07/29/98  
Date Received: 07/30/98  
Date Prepared: N/A  
Date Analyzed: 08/05/98

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<u>Result</u>	<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	4.3		ppb (v/v)
ND	2.2		ppb (v/v)
ND	6.4		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)
ND	2.2		ppb (v/v)



# REPORT

## Full List

Date Collected: N/A  
Date Received: N/A  
Date Prepared: N/A  
Date Analyzed: 08/05/98

<u>RL</u>	<u>Qualifiers</u>	<u>Units</u>
0.5		ppb (v/v)
0.5		ppb (v/v)
2.0		ppb (v/v)
0.5		ppb (v/v)
1.0		ppb (v/v)
0.5		ppb (v/v)
0.5		ppb (v/v)
1.0		ppb (v/v)
0.5		ppb (v/v)
1.0		ppb (v/v)
0.5		ppb (v/v)
2.0		ppb (v/v)
1.0		ppb (v/v)
0.5		ppb (v/v)
0.5		ppb (v/v)
0.5		ppb (v/v)
1.0		ppb (v/v)
1.0		ppb (v/v)
0.5		ppb (v/v)
0.5		ppb (v/v)
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0.5		ppb (v/v)
0.5		ppb (v/v)
1.0		ppb (v/v)
0.5		ppb (v/v)
0.5		ppb (v/v)
0.5		ppb (v/v)
0.5		ppb (v/v)
1.0		ppb (v/v)
1.0		ppb (v/v)

ed: N/A  
ed: N/A  
ed: N/A  
ed: 08/05/98

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<u>Qualifiers</u>	<u>Units</u>
	ppb (v/v)
	ppb (v/v)
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08/05/98

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<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
8	0-30	
13	0-30	
7	0-30	
10	0-30	
1	0-30	
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1	0-30	
0	0-30	
1	0-30	
0	0-30	
1	0-30	
3	0-30	

# ARY OF TERMS AND QUALIFIERS

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centration exceeds the calibration range.  
ected at indicated reporting limit.

**Appendix B**

**Field Data Sheets for Mid-1998 Pulse Testing**

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undwat r mea rements recorded on

por ext actio system;

rior to use o VEW-11 (first well).

1.5

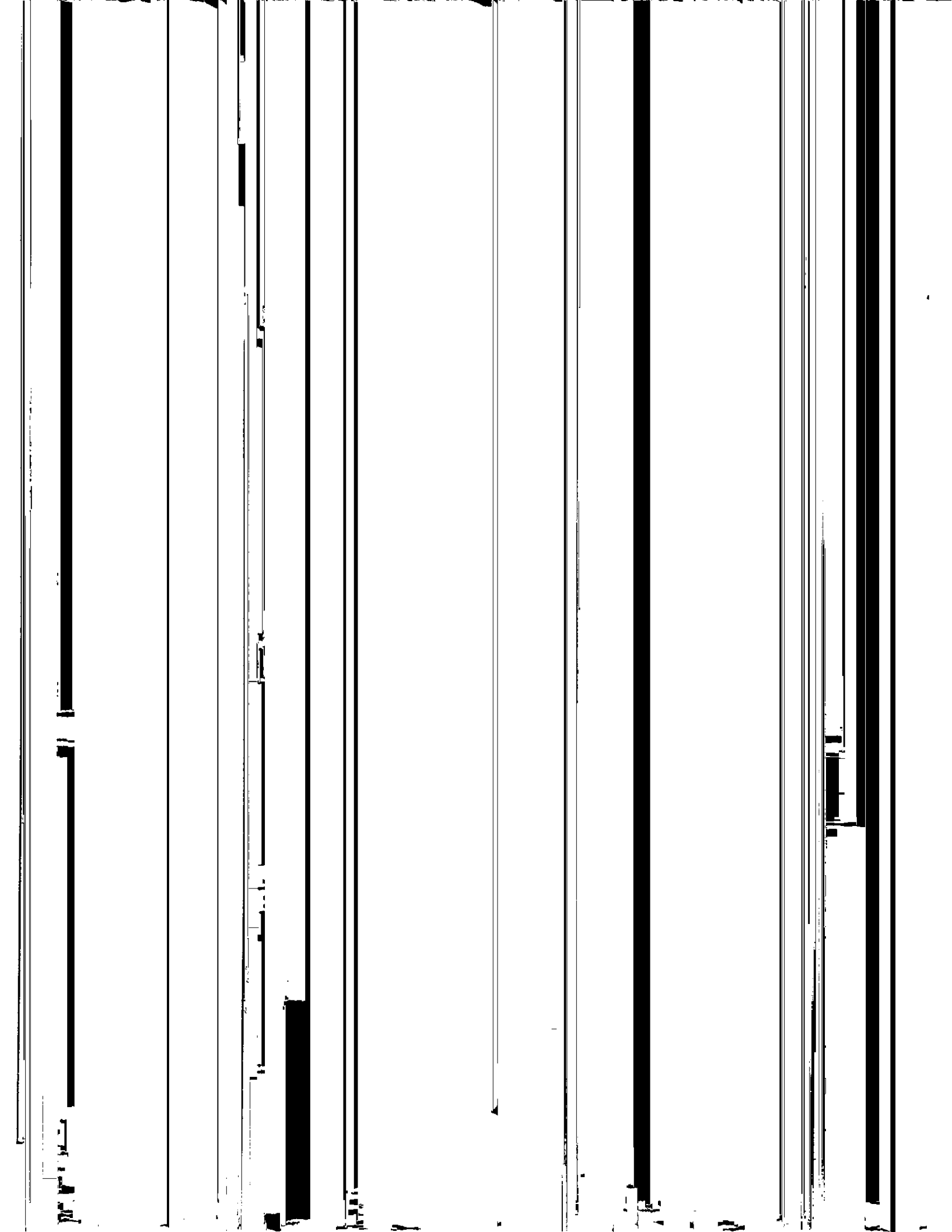
Vapor Well Field Sampling Results<sup>1</sup>  
Former Burn Pit Area Low-Vacuum Extraction System Pulse Test  
Lockheed Beaumont Facility No. 1

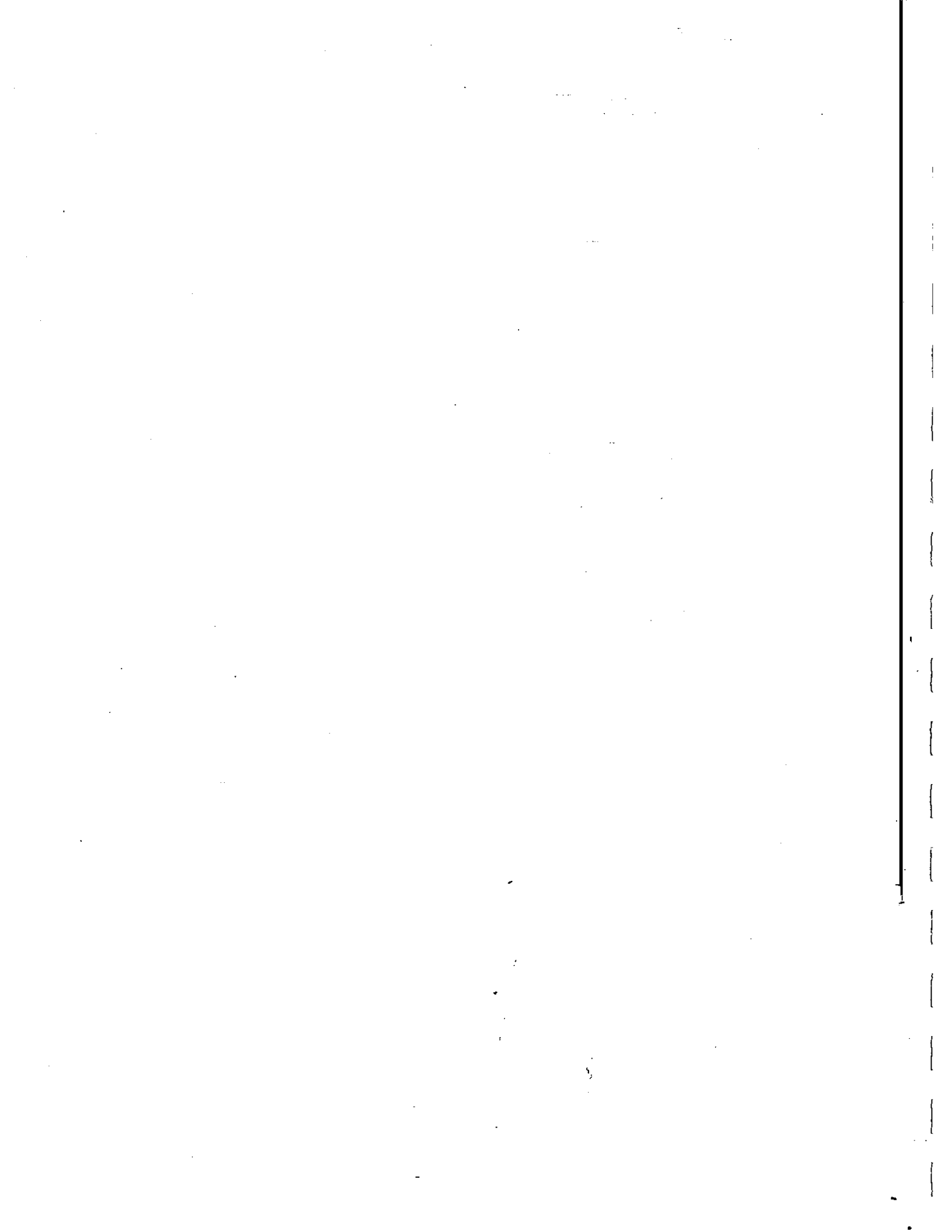
Bunker  
(909) 845-7532

Vapor Well Field Sampling Results<sup>1</sup>  
Former Burn Pit Area Low-Vacuum Extraction System Pulse Test  
Lockheed Beaumont Facility No. 1

Date	VEW-6			VEW-10			VEW-11			VRW-2		
	Time	OVM (Bg/R) <sup>2</sup>	OVA (Bg/R)	Time	OVM (Bg/R)	OVA (Bg/R)	Time	OVM (Bg/R)	OVA (Bg/R)	Time	OVM (Bg/R)	OVA (Bg/R)
6/17/98	0917	0 10.6	0 10.0	1103	0 11.2	0 12.2	0917	0 10.6	0 10.3	1103	0 10	0 10.3







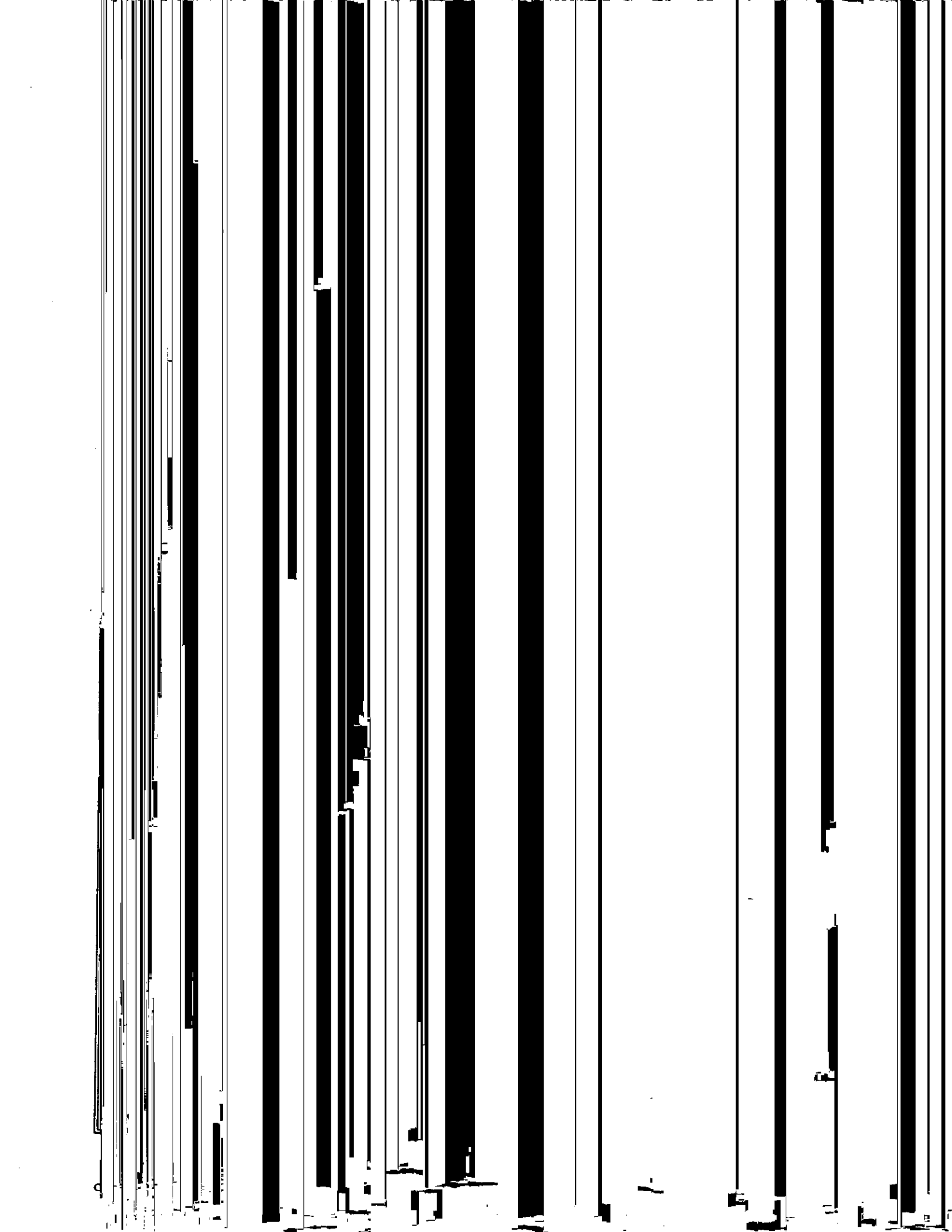


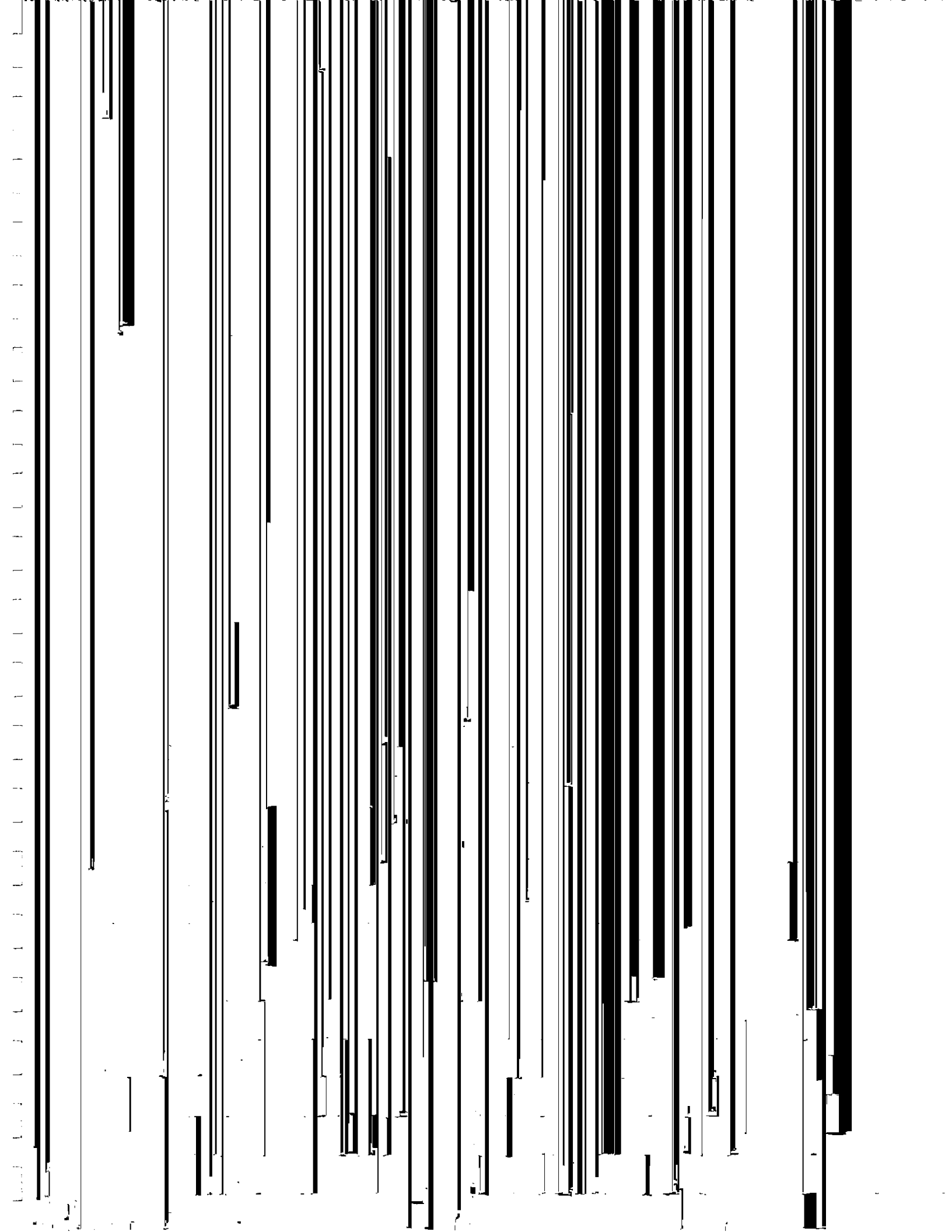
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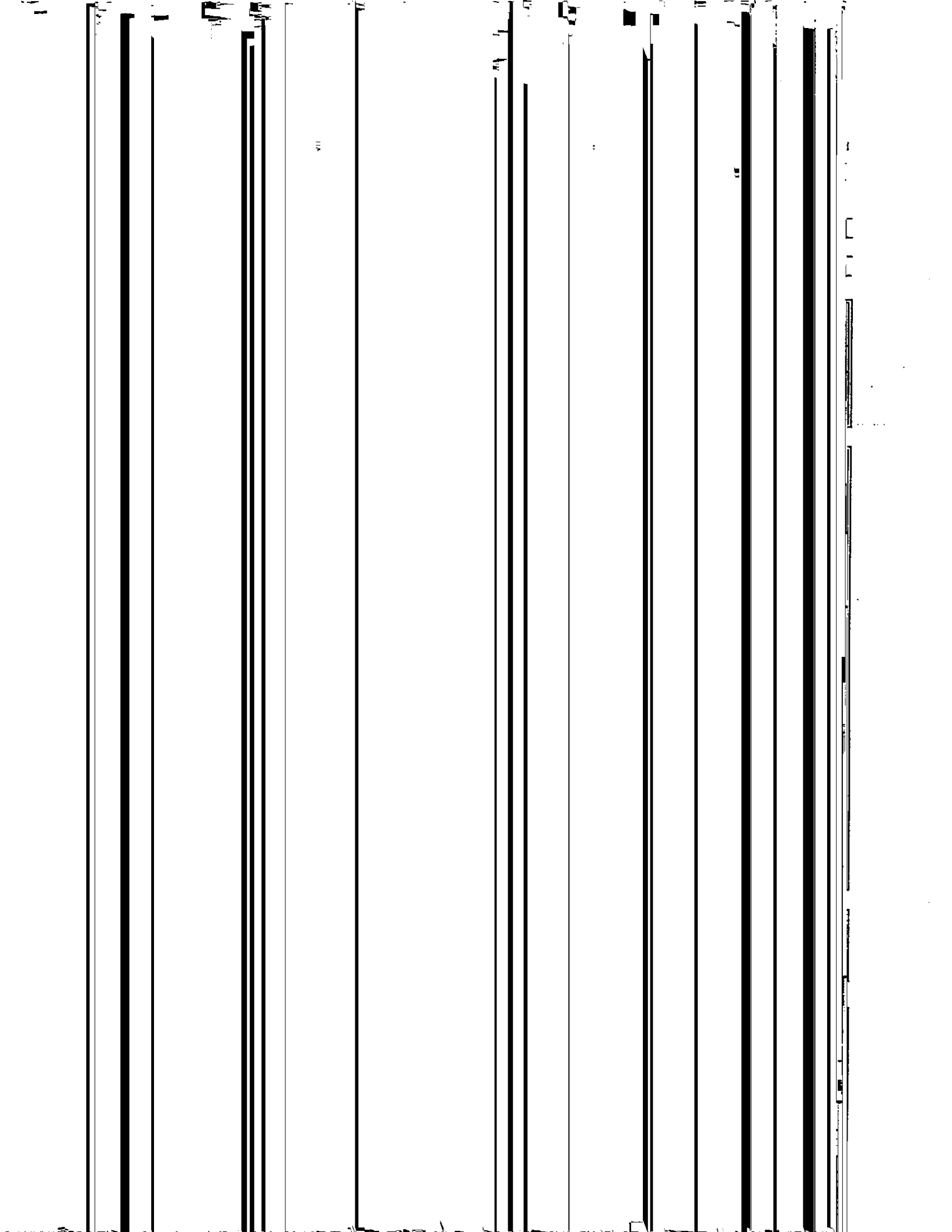


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Other field task members' field  
FORM for

515815-1000

City No. 1

7/5

Stop Time	Total Hours
1700	8

re)

Ramp, etc.

SSS collect

DRINK ONLY

DRINK ONLY

DRINK ONLY

TO LABS.

Out-of-Scope\*

Log other field task members' field  
INSTRUMENT FORM for

~~67515818~~ 67515818

22.1

2 OWN READINGS

Stop Time	Total Hours
1700	8

Out-of-Scope)

A READINGS

5-006 from VIEW-11. (2)

Readings Only.

Readings Only.

READINGS ONLY.

from low OVA READINGS

Out-of-Scope\*

Health and Safety Levels/Acti


Quality Control Actions Taken


Problems/Corrective Action:

- ① ONA ~~FLAME~~ CALIBRATION TO  
-will call
- ② Not sure if 1st C  
CANISTER AND ENV

Out-of-Scope Explanation:


1730-1745 BUT CAL. INSTRUMENTS  
1745- TRAVEL TO SAVINNE