

State of California
California Environmental Protection Agency
AIR RESOURCES BOARD

**Ambient Air Monitoring in Kern County for Telone (1,3-Dichloropropene)
During DowElanco's Commercial Reintroduction, May-December, 1995**

Engineering and Laboratory Branch

Monitoring and Laboratory Division

Test Report No. C94-071-K

Report Date: November 8, 1996

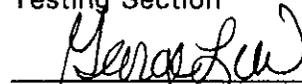
APPROVED:



Don Fitzell, Project Engineer



Cynthia L. Castronovo, Manager,
Testing Section



George Lew, Chief,
Engineering and Laboratory Branch

This report has been reviewed by the staff of the California Air Resources Board and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Air Resources Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

Acknowledgments

The Instrument Technicians were: Jack LaBrue, Ken Lewis, LaJuan Taylor and Bud Thoma of the ARB. Fred Jager and Kevin Mongar of the ARB also assisted in the collection of samples. Assistance was provided by the Kern County Agricultural Commissioner's Office as well as Lynn Baker, Ruth Tomlin, and Cara Roderick of the ARB's Air Quality Measures Branch.

**Ambient Air Monitoring in Kern County for Telone (1,3-Dichloropropene)
During DowElanco's Commercial Reintroduction, May-December 1995**

This report presents the results of ambient air monitoring for Telone from May to December, 1995, in Kern County. The Air Resources Board (ARB) located five samplers throughout Kern County: Shafter, Rosedale, Bakersfield, Lamont and Weed Patch.

A wide range of concentrations of Telone were detected: 24-hour values ranged from 0.10 $\mu\text{g}/\text{m}^3$ to a maximum concentration of 27.0 $\mu\text{g}/\text{m}^3$. Only 86 (excluding duplicates) of the 494 samples collected were above the limit of detection (0.3 $\mu\text{g}/\text{sample}$ or approximately 0.1 $\mu\text{g}/\text{m}^3$). Of these, 25 were 1.0 $\mu\text{g}/\text{m}^3$ or greater. No applications were made from August 10 through November 10, 1995.

**Ambient Air Monitoring in Kern County for Telone (1,3-Dichloropropene)
During DowElanco's Commercial Reintroduction, May-December, 1995**

I. INTRODUCTION

At the request of the California Department of Pesticide Regulation (DPR) and the Air Resources Board's (ARB) Air Quality Measures Branch, the ARB Engineering and Laboratory Branch (ELB) conducted a six-month ambient monitoring program for Telone in Kern County from May to December, 1995. This monitoring, in conjunction with previous monitoring in Merced County, is to confirm that mitigation measures developed by DowElanco to reduce emissions of Telone from the soil are effective. 1995 mitigation measures include: maximum use of 12 gallons per acre, 300 foot buffer zones around each application, injection depth of 18 inches, and compaction of the soil following application (the 1995 permit conditions were revised in 1996). The commercial reintroduction of Telone is a result of a series of studies undertaken in California by DowElanco designed to mitigate the release of Telone into the air. These monitoring studies began after results from a study conducted by the ARB in April 1990, "Telone (1,3-dichloropropene) Monitoring in Merced County," indicated the presence of unacceptably high ambient concentrations of Telone during the peak application period in Merced County. This resulted in a statewide suspension of the permits of all users for this soil fumigant.

Since the statewide reintroduction in 1995, the DPR has allowed application of Telone in thirteen counties in California. The ARB staff chose to monitor in Merced and Kern Counties because of the high use in these areas. The Merced study was conducted March-April 1995. The results of that monitoring program were reported in the ARB report "Ambient Air Monitoring in Merced County for Telone (1,3-Dichloropropene) During DowElanco's Commercial Reintroduction, March - April, 1995."

Using the sampling apparatus shown in APPENDIX I, Attachment A, samples were collected at five locations in Kern County (Shafter, Rosedale, Bakersfield, Lamont and Weed Patch), shown in Figure I. The ARB staff collected 24-hour samples, Monday through Friday for approximately 6 months. This monitoring was designed to verify the predictive exposure models developed by DowElanco, and to obtain an idea of the maximum annual exposure California's residents might expect.

II. PESTICIDE DESCRIPTION

Telone is a volatile (vapor pressure 27.8 mm Hg at 20°C), colorless to amber liquid consisting of cis and trans isomers of the compound 1,3-dichloropropene. It has a molecular weight of 111.0, a boiling point of 104°C to 112°C and a solubility in water of approximately 2.3 gm/liter (The Merck Index, 12th Edition, 1996 and APPENDIX II.)

Telone is a restricted use pesticide under Title 3, California Code of Regulations, Section 6400. The United States Environmental Protection Agency (US EPA) has classified it as a

Class B2 carcinogen (probable human carcinogen) (APPENDIX II). The State of California has determined under Proposition 65 that 1,3-dichloropropene is a carcinogen (California Code of Regulations, 1994).

It is used on a wide variety of crops and is injected as a preplant soil treatment to control nematodes, fungi, insects, weeds and other soil pests. Prior to the suspension of its use, the DPR Pesticide Use Report for 1988 reported statewide use of 16,518,814 pounds. Historical application rates varied from five to thirty-six gallons per acre depending on the soil type and crop (APPENDIX II).

III. SAMPLING LOCATIONS

The five sites chosen were: Shafter (Rio Bravo School), Rosedale (Almondale School), Bakersfield (ARB ambient monitoring station), Lamont (Mt. View School), and Weed Patch (Vineland School). The addresses of these locations and their sample identifications are listed in TABLE I. All samplers were located on roofs of buildings at a height (approximately) of 15 to 20 feet above ground. The sites were selected on the basis of the criteria listed in the Quality Assurance (QA) Plan for Pesticide Monitoring (APPENDIX I, ATTACHMENT C). Other considerations in selecting the monitoring sites were: proximity to expected application sites, possible population exposure, reasonable access, availability of AC power and security.

IV. SAMPLING METHODOLOGY

The sampling method used during this study required passing measured quantities of ambient air through charcoal tubes (see APPENDIX I). These tubes are 8 mm x 110 mm, coconut-base charcoal with 400 mg in the primary section, and 200 mg in the secondary (SKC catalogue #226-09). Any Telone present in the sampled ambient air was captured by the charcoal adsorbent contained in the tubes. Subsequent to sampling, the tubes were stored and transported in an insulated container with ice to the ARB's ELB in Sacramento for analysis.

Each sample train consisted of a charcoal tube with tube cover, Teflon fittings and tubing, rain shield, flow meter, train support, and a 115V AC vacuum pump. A diagram of the sampling train is shown in APPENDIX I, Attachment A. Each tube was prepared for use by breaking off each sealed glass end and then immediately inserting the tube into a Teflon fitting. The tubes were oriented in the sampling train according to a small arrow printed on the side of each tube indicating the direction of flow. Covers were placed around the tube to protect any collected Telone from exposure to sunlight.

The sample pump was started and the flow through a rotometer was adjusted with a metering valve to an indicated reading of 2.0 liters per minute (Lpm). A leak check was performed by blocking off the sample inlet. The sampling train would be determined to be leak-free, if the indicated flow dropped to zero. Upon completion of a successful leak check, the indicated flow rate was again set at 2.0 Lpm and was recorded (if different from the planned 2.0 Lpm) along with date, time, and site location. Calibration on February 22, 1995 with a digital bubble meter prior to use in the field, indicated that an average flow rate of 1.9 Lpm was actually achieved when the rotometers were set to 2.0 Lpm. This average value was used

to calculate all sample volumes.

At the end of each sampling period the final indicated flow rate (if different than the set 2.0 Lpm), the stop date and time were recorded. The charcoal tubes were then removed from the sample train, end caps were installed on both ends, and identification labels were affixed to each tube. Each tube was then placed in a culture tube with a screw cap and stored with ice in a covered chest until the tubes were delivered to the laboratory for analysis.

V. ANALYTICAL METHODOLOGY

The charcoal tubes recovered from each sampler were analyzed by the ARB's ELB staff using the same procedure as in all previous studies (see the SOP for Telone, APPENDIX I, ATTACHMENT B). The charcoal in the primary section of each sample tube was extracted with carbon disulfide, followed by Gas Chromatographic (GC) separation on a DB-624 capillary column, and measurement by Electron Capture Detector (ECD). All samples were analyzed the week following collection. Based on the breakthrough studies presented in the SOP (a maximum of 727 ug collected at approximately 2.0 Lpm over 24 hours), no primary sections had concentrations high enough to require the analysis of the secondary section.

VI. RESULTS

The Telone concentration data, and a summary of this data, are located in TABLES II and III, respectively. Quality Assurance data is presented in TABLE IV.

A wide range of concentrations of Telone were detected: 24-hour values ranged from 0.10 to a maximum concentration of 27.0 ug/m³. The concentration for this maximum value was confirmed by gas chromatography/mass spectral analysis of the extract solution (TABLE 4). Only 86 (excluding duplicates) of the 494 samples collected were above the limit of detection (0.3 ug/sample or approximately 0.1 ug/m³). Of these, 25 were 1.0 ug/m³ or greater. No applications were made from August 10 through November 10, 1995.

While the results reported here may be 50 - 60% lower than the actual values present for some samples (see Quality Assurance section) the results from the 1990 study in Merced County indicated much higher values. The average of the values found at each sampling site above the minimum detection limit in Merced County ranged from 0.8 ug/m³ at the Merced background site to 24.5 ug/m³ at the Hilmar site. Fourteen (excluding duplicates) of the samples were greater than 10. ug/m³, with 6 of those greater than 50. ug/m³. The maximum value measured was 160.7 ug/m³ at the Hilmar site.

VII. QUALITY ASSURANCE

Reproducibility, linearity, collection and extraction efficiency, minimum detection limit, and storage stability were determined prior to the first monitoring program ("Telone (1,3-dichloropropene) Monitoring in Merced County" (1991)), and are outlined in the S.O.P. for Telone (APPENDIX I, Attachment B).

Prior to this analysis, linearity, reproducibility and the minimum detection limit were checked to ensure reliable results. Linearity from 0.05 ug/mL to 10.0 ug/mL was checked and a coefficient of correlation of 0.99997 was found. The minimum detection limit was recalculated using the same method in the S.O.P. and a value of 0.03 ug/mL was determined. Again, a limit of quantitation of approximately 0.1 ug/mL (0.3 ug/sample) was used. Triplicate injections of the standards ranging from 0.05 ug/mL to 10.0 ug/mL resulted in standard deviations ranging from 11% to 2%, respectively.

Extensive QA data is presented in TABLE IV. Previous QA spiking studies have often resulted in inconsistent and ambiguous results even though independently analyzed field samples from collocated sites gave similar results (APPENDIX III). The source of these problems seems to have been found. Using carbon disulfide as the solvent for the spiking solution can result in poor reproducibility and/or low recovery depending on analytical technique and experience. The heat generated by the reaction of carbon disulfide and charcoal can cause some of the Telone to volatilize depending on the volume of solvent used and the spiking technique. While this reaction could cause problems during the extraction of field samples, the similar results found by ELB's laboratory and DowElanco's in published ("Ambient Air Monitoring in Monterey County for Telone II during DowElanco's Commercial Use Project, September and October, 1993" (1994)) and other unpublished comparisons indicate this was not the case.

A second problem affecting both spikes and samples was encountered after an autosampler not previously used, was installed on the GC. Late in the monitoring program it was found that standards left in an autosampler for 24 hours or more or even stored in a freezer for several days after having the septum pierced will increase in concentration due to the high volatility of the carbon disulfide and its evaporation through the hole in the septum. Unfortunately, Telone standards from a previous run were sometimes reused during this study.

The levels of Telone detected in the field could be 50 to 60% higher for some samples (based on QA audit sample results) depending on the freshness of the standard used that day for calibration of the instrument. It cannot be determined which samples might have been affected because of this.

The concentrating of the Telone standards might also be the explanation for the low recoveries in two of the spiking studies located in TABLE IV: "Field Spikes (Hexane) 4/95" and "QMOSB Field Spikes (Hexane) 8/95". The results of using a set of Telone standards previously run on the autosampler was shown for the spikes Tel 41, 42, and 43: "QMOSB Spikes (Hexane) 11/95 (Old Standards)" and "QMOSB Spikes (Hexane) 11/95 (Fresh Standards)". "Old Standards" being defined as ones previously run on the autosampler and

"Fresh Standards" being ones aliquoted that day from working standards stored in the freezer. Samples Tel 40, 44, and 45 could not be rerun. The remaining spiking studies in hexane seem to give good results (generally greater than 70% recovery). The Quality Management and Operations Support Branch (QMOSB) audit report is located in APPENDIX IV. Although the QMOSB audit report date is July 1996 the Kern County audit was conducted in June 1995 with follow-up audit spikes in August and November 1995.

The stability studies for Telone spiked on charcoal and stored at ice chest (approx. 0°C) temperatures were repeated with hexane used as the spiking solvent (TABLE IV). Good recovery (80% or greater) was obtained through day 22 after the start of storage. The reason for the sudden decrease in recovery levels from day 22 to day 34 is unknown; however, the study does indicate good stability through 3 weeks of storage.

FIGURE I. Telone Monitoring Area

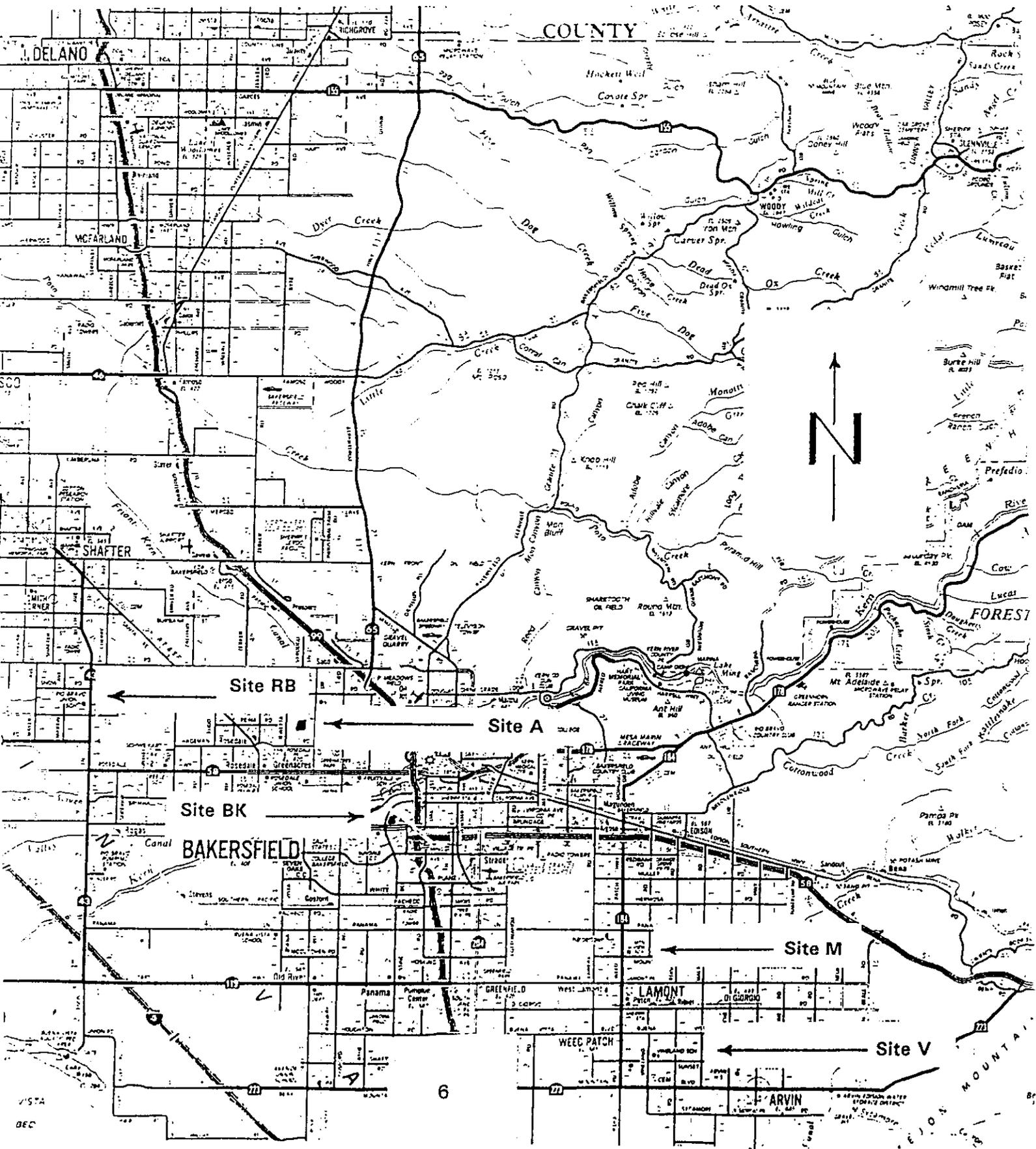


TABLE I. Telone Monitoring Sites

1. Site RB (Shafter)
Rio Bravo Union School
6601 Enos Lane
Bakersfield, CA 93112
(Highway 43 and Kratzmeyer Road)

2. Site A (Rosedale)
Almondale School
10510 Chippewa Road
Bakersfield, CA 93312
(Chippewa and Verdugo Roads)

3. Site BK (Bakersfield)
Air Resources Board Ambient Air Monitoring Site
5558 California Ave.
Suite 460
Bakersfield, CA 93309
(California Ave. and Stockdale Hwy.)

4. Site M (Lamont)
Mt. View School
8201 Palm Ave.
Lamont, CA 93241
Hwy. 184 and Mt. View Road)

5. Site V (Vineland)
14327 Vineland Rd.
Weed Patch, CA 93307
(Vineland and Sunset Roads)

TABLE II Kern Co. Telone Ambient Monitoring Data

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
1RB	1400	2.7	ND	--	
1A	1470	2.8	ND	--	
1BK	1405	2.7	ND	--	
1M	1425	2.7	ND	--	
1V-1	1450	2.8	ND	--	
1V-2	1450	2.8	ND	--	5/23-24/95
1B	BLANK	--	ND	--	
2RB	1510	2.9	ND	--	
2A	1450	2.8	ND	--	
2BK	1520	2.9	ND	--	
2M	1495	2.8	ND	--	
2V-1	1480	2.8	ND	--	5/24-25/95
2V-2	1480	2.8	ND	--	
3RB	1430	2.7	0.62	0.23	
3A	1440	2.7	ND	--	
3BK	1315	2.5	1.86	0.74	
3M	1250	2.4	0.52	0.22	
3V-1	1215	2.3	0.36	0.16	5/25-26/95
3V-2	1215	2.3	ND	--	
4RB-1	1340	2.5	ND	--	
4RB-2	1134	2.5	ND	--	
4A	1345	2.6	ND	--	
4BK	1350	2.6	ND	--	
4M	1345	2.6	ND	--	5/30-31/95
4V	1350	2.6	ND	--	
5RB-1	1385	2.6	ND	--	
5RB-2	1385	2.6	ND	--	
5A	Sample Lost				
5BK	1380	2.6	ND	--	
5M	1385	2.6	ND	--	5/31-6/1/95
5V	1390	2.6	ND	--	
6RR-1	1425	2.7	ND	--	
6RB-2	1425	2.7	ND	--	
6A	1375	2.6	ND	--	
6BK	1330	2.5	ND	--	
6M	1275	2.4	ND	--	
6V	1240	2.4	ND	--	6/1-2/95
6B	BLANK	--	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
7RB	1380	2.6	ND	--	
7A-1	1385	2.6	ND	--	
7A-2	1385	2.6	ND	--	
7BK	1395	2.7	ND	--	
7M	1395	2.7	ND	--	
7V	1405	2.7	1.2	0.44	6/5-6/95
7B	BLANK	--	ND	--	
8RB	1380	2.6	ND	--	
8A-1	1375	2.6	ND	--	
8A-2	1375	2.6	ND	--	
8BK	1370	2.6	0.33	0.13	
8M	1375	2.6	0.44	0.17	6/6-7/95
8V	1365	2.6	0.34	0.13	
9RB	1380	2.6	ND	--	
9A-1	1380	2.6	ND	--	
9A-2	1380	2.6	ND	--	
9BK	1375	2.6	ND	--	
9M	1375	2.6	ND	--	6/7-8/95
9V	1430	2.7	ND	--	
10RB	1515	2.9	ND	--	
10A-1	1470	2.8	ND	--	
10A-2	1470	2.8	ND	--	
10BK	1405	2.7	ND	--	
10M	1345	2.6	ND	--	6/8-9/95
10V	1330	2.5	ND	--	
11RB	1380	2.6	ND	--	
11A	1380	2.6	ND	--	
11BK-1	1375	2.6	ND	--	
11BK-2	1375	2.6	ND	--	
11M	1385	2.6	1.7	0.65	
11V	1375	2.6	1.3	0.50	6/12-13/95
11B	BLANK	--	ND	--	
12RB	1385	2.6	ND	--	
12A	1385	2.6	ND	--	
12BK-1	1390	2.6	ND	--	
12BK-2	1390	2.6	ND	--	
12M	1380	2.6	ND	--	6/13-14/95
12V	1380	2.6	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
13RB	1385	2.6	ND	--	
13A	1390	2.6	ND	--	
13BK-1	1385	2.6	ND	--	
13BK-2	1385	2.6	ND	--	
13M	1380	2.6	ND	--	6/14-15/95
13V	1380	2.6	0.40	0.15	
14RB	1435	2.7	ND	--	
14A	1385	2.6	ND	--	
14BK-1	1330	2.5	ND	--	
14BK-2	1330	2.5	ND	--	
14M	1280	2.4	ND	--	6/15-16/95
14V	1250	2.4	ND	--	
15RB	1290	2.5	ND	--	
15A	1290	2.5	ND	--	
15BK	1285	2.4	ND	--	
15M-1	1255	2.4	ND	--	
15M-2	1255	2.4	ND	--	6/19-20/95
15V	1255	2.4	ND	--	
16RB	1485	2.8	ND	--	
16A	1485	2.8	ND	--	
16BK	1475	2.8	ND	--	
16M-1	1455	2.8	ND	--	
16M-2	1455	2.8	ND	--	6/20-21/95
16V	1460	2.8	ND	--	
17RB	1395	2.7	ND	--	
17A	1395	2.7	ND	--	
17BK	1395	2.7	ND	--	
17M-1	1395	2.7	ND	--	
17M-2	1395	2.7	ND	--	
17V	1390	2.6	0.33	0.13	6/21-22/95
17B	BLANK	--	ND	--	
18RB	1550	2.9	ND	--	
18A	1510	2.9	ND	--	
18BK	1410	2.7	ND	--	
18M-1	1290	2.5	ND	--	
18M-2	1290	2.5	ND	--	6/22-23/95
18V	1320	2.5	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
19RB	1415	2.7	ND	--	
19A	1425	2.7	ND	--	
19BK	1395	2.7	0.45	0.17	
19M	1405	2.7	0.63	0.23	
19V-1	1410	2.7	0.69	0.26	
19V-2	1410	2.7	0.69	0.26	6/26-27/95
19B	BLANK	--	ND	--	
20RB	1400	2.7	ND	--	
20A	1395	2.7	0.39	0.14	
20BK	1395	2.7	0.40	0.15	
20M	1395	2.7	3.8	1.4	
20V-1	1385	2.6	3.1	1.2	6/27-28/95
20V-2	1385	2.6	3.3	1.3	
21RB	1410	2.7	23.	8.5	
21A	1405	2.7	6.0	2.2	
21BK	1405	2.7	0.42	0.16	
21M	1405	2.7	1.7	0.63	
21V-1	1415	2.7	7.0	2.6	6/28-29/95
21V-2	1415	2.7	6.0	2.2	
22RB	1430	2.7	72.	27.	
22A	1435	2.7	ND	--	
22BK	1370	2.6	0.36	0.14	
22M	1325	2.5	ND	--	
22V-1	1275	2.4	9.1	3.8	6/29-30/95
22V-2	1275	2.4	8.4	3.5	
23RB-1	1370	2.6	0.38	0.15	
23RB-2	1370	2.6	0.36	0.14	
23A	Sample not collected, see 24A				
23BK	1365	2.6	ND	--	
23M	1375	2.6	0.30	0.12	
23V	1370	2.6	ND	--	7/3-4/95
23B	BLANK	--	ND	--	
24RB-1	1375	2.6	0.75	0.29	
24RB-2	1375	2.6	0.80	0.31	
24A	2750	5.2	ND	--	
24BK	1360	2.6	ND	--	
24M	1400	2.7	ND	--	7/4-5/95
24V	1400	2.7	0.51	0.19	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³)

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
25RB-1	1380	2.6	ND	--	
25RB-2	1380	2.6	ND	--	
25A	1380	2.6	5.2	2.0	
25BK	1380	2.6	0.96	0.37	
25M	1375	2.6	ND	--	7/5-6/95
25V	1380	2.6	ND	--	
26RB-1	1470	2.8	ND	--	
26RB-2	1470	2.8	ND	--	
26A	1430	2.7	2.8	1.0	
26BK	1365	2.6	1.0	0.38	
26M	1305	2.5	0.33	0.13	7/6-7/95
26V	1265	2.4	ND	--	
27RB	1380	2.6	ND	--	
27A-1	1350	2.6	ND	--	
27A-2	1350	2.6	ND	--	
27BK	1350	2.6	ND	--	
27M	1365	2.6	3.6	1.4	7/10-11/95
27V	1370	2.6	ND	--	
28RB	Power lost				
28A-1	1395	2.7	4.9	1.8	
28A-2	1395	2.7	4.9	1.8	
28BK	1400	2.7	0.74	0.27	
28M	1390	2.6	ND	--	
28V	1385	2.6	ND	--	7/11-12/95
28B	BLANK		ND	--	
29RB	Power lost				
29A-1	1355	2.6	8.2	3.2	
29A-2	1355	2.6	7.5	2.9	
29BK	1340	2.5	6.4	2.6	
29M	1340	2.5	1.7	0.68	7/12-13/95
29V	1340	2.5	ND	--	
30RB	1435	2.7	40.	15.	
30A-1	1390	2.6	4.1	1.6	
30A-2	1390	2.6	3.6	1.4	
30BK	1345	2.6	0.36	0.14	
30M	1280	2.4	0.86	0.36	7/13-14/95
30V	1300	2.5	0.45	0.18	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
31RB	1255	2.4	ND	--	
31A	1255	2.4	0.30	0.12	
31BK-1	1265	2.4	ND	--	
31BK-2	1265	2.4	ND	--	
31M	1260	2.4	ND	--	7/17-18/95
31V	1265	2.4	5.0	2.1	
32RB	1470	2.8	0.45	0.16	
32A	1470	2.8	ND	--	
32BK-1	1465	2.8	ND	--	
32BK-2	1465	2.8	ND	--	
32M	1470	2.8	0.51	0.18	7/18-19/95
32V	1465	2.8	13.	4.6	
33RB	1440	2.7	ND	--	
33A	1440	2.7	ND	--	
33BK-1	1435	2.7	ND	--	
33BK-2	1435	2.7	ND	--	
33M	1445	2.7	2.2	0.81	
33V	1460	2.8	14.	5.0	7/19-20/95
33B	BLANK	--	ND	--	
34RB	1505	2.9	ND	--	
34A	1470	2.8	ND	--	
34BK-1	1410	2.7	ND	--	
34BK-2	1410	2.7	ND	--	
34M	1335	2.5	3.6	1.4	7/20-21/95
34V	1300	2.5	22.	8.8	
35RB	1375	2.6	ND	--	
35A	1365	2.6	ND	--	
35BK	1575	2.6	ND	--	
35M-1	1365	2.6	ND	--	
35M-2	1365	2.6	ND	--	
35V	1370	2.6	ND	--	7/31-8/1/95
35B	BLANK	--	ND	--	
36RB	1375	2.6	ND	--	
36A	1380	2.6	ND	--	
36BK	1390	2.6	ND	--	
36M-1	1385	2.6	ND	--	
36M-2	1385	2.6	ND	--	8/1-2/95
36V	1380	2.6	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
37RB	1405	2.7	ND	--	
37A	1410	2.7	ND	--	
37BK	1395	2.7	ND	--	
37M-1	1405	2.7	ND	--	
37M-2	1405	2.7	ND	--	8/2-3/95
37V	1395	2.7	ND	--	
38RB	1415	2.7	ND	--	
38A	1360	2.6	ND	--	
38BK	1305	2.5	ND	--	
38M-1	1240	2.4	ND	--	
38M-2	1240	2.4	ND	--	8/3-4/95
38V	1200	2.3	ND	--	
39RB	1480	2.8	ND	--	
39A	1425	2.7	ND	--	
39BK	1385	2.6	ND	--	
39M	1310	2.5	ND	--	
39V-1	1320	2.5	ND	--	8/7-8/95
39V-2	1320	2.5	ND	--	
40RB	1430	2.7	ND	--	
40A	1420	2.7	ND	--	
40BK	1320	2.5	ND	--	
40M	1335	2.5	ND	--	
40V-1	1330	2.5	ND	--	8/8-9/95
40V-2	1330	2.5	ND	--	
41RB	1390	2.6	ND	--	
41A	1395	2.6	ND	--	
41BK	1370	2.6	ND	--	
41M	1425	2.7	22.	8.1	
41V-1	1370	2.6	8.8	3.4	8/9-10/95
41V-2	1370	2.6	8.0	3.1	
42RB	1310	2.5	ND	--	
42A	1320	2.5	ND	--	
42BK	1365	2.6	ND	--	
42M	1375	2.6	1.2	0.46	
42V-1	1390	2.6	ND	--	
42V-2	1390	2.6	ND	--	8/10-11/95
42B	BLANK	--	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
43RB	1210	2.3	ND	--	
43A	1175	2.2	ND	--	
43BK	1215	2.3	ND	--	
43M-1	1215	2.3	0.34	0.15	
43M-2	1215	2.3	0.34	0.15	8/14-15/95
43V	1215	2.3	ND	--	
44RB	1740	3.3	ND	--	
44A	1685	3.2	ND	--	
44BK	1545	2.9	ND	--	
44M-1	1420	2.7	ND	--	
44M-2	1420	2.7	ND	--	8/15-16/95
44V	1470	2.8	ND	--	
45RB	1280	2.4	ND	--	
45A	1195	2.3	ND	--	
45BK	1290	2.5	ND	--	
45M-1	1425	2.7	ND	--	
45M-2	1425	2.7	ND	--	8/16-17/95
45V	1380	2.6	ND	--	
46RB	1330	2.5	ND	--	
46A	1425	2.7	ND	--	
46BK	1380	2.6	ND	--	
46M-1	1320	2.5	ND	--	
46M-2	1320	2.5	ND	--	
46V	1275	2.4	ND	--	8/17-18/95
46B	BLANK	--	ND	--	
47RB	1610	3.1	ND	--	
47A	1610	3.1	ND	--	
47BK-1	1550	3.0	ND	--	
47BK-2	1550	3.0	ND	--	
47M	1395	2.7	ND	--	8/21-22/95
47V	1435	2.7	ND	--	
48RB	1280	2.4	ND	--	
48A	1230	2.3	ND	--	
48BK-1	1175	2.2	ND	--	
48BK-2	1175	2.2	ND	--	
48M	1110	2.1	ND	--	
48V	1170	2.2	ND	--	8/22-23/95
48B	BLANK	--	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
49RB	1440	2.7	ND	--	
49A	1440	2.7	ND	--	
49BK-1	1440	2.7	ND	--	
49BK-2	1440	2.7	ND	--	
49M	1440	2.7	ND	--	8/23-24/95
49V	1500	2.8	ND	--	
50RB	1310	2.5	ND	--	
50A	1320	2.5	ND	--	
50BK-1	1360	2.6	ND	--	
50BK-2	1360	2.6	ND	--	
50M	FAILED LEAK CHECK			--	8/24-25/95
50V	1350	2.6	ND	--	
51RB	1265	2.4	ND	--	
51A-1	1280	2.4	ND	--	
51A-2	1280	2.4	ND	--	
51BK	1290	2.5	ND	--	
51M	1270	2.4	ND	--	8/28-29/95
51V	1280	2.4	ND	--	
52RB	1500	2.9	ND	--	
52A-1	1515	2.9	ND	--	
52A-2	1515	2.9	ND	--	
52BK	1400	2.7	ND	--	
52M	1495	2.8	ND	--	8/29-30/95
52V	1500	2.9	ND	--	
53RB	1380	2.6	ND	--	
53A-1	1355	2.6	ND	--	
53A-2	FAILED LEAK CHECK			--	
53BK	1460	2.8	ND	--	
53M	1350	2.6	ND	--	
53V	1350	2.6	ND	--	8/30-31/95
53B	BLANK	--	ND	--	
54RB	1365	2.6	ND	--	
54A-1	1370	2.6	ND	--	
54A-2	1370	2.6	ND	--	
54BK	1375	2.6	ND	--	
54M	1390	2.6	ND	--	8/31-9/1/95
54V	1390	2.6	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
55RB-1	1275	2.4	ND	--	
55RB-2	1275	2.4	ND	--	
55A	1245	2.4	ND	--	
55BK	1245	2.4	ND	--	
55M	1225	2.3	ND	--	9/5-6/95
55V	1225	2.3	ND	--	
56RB-1	1420	2.7	ND	--	
56RB-2	1420	2.7	ND	--	
56A	1415	2.7	ND	--	
56BK	1425	2.7	ND	--	
56M	1470	2.8	ND	--	
56V	1460	2.8	ND	--	9/6-7/95
56B	BLANK	--	ND	--	
57RB-1	1385	2.6	ND	--	
57RB-2	1385	2.6	ND	--	
57A	1415	2.7	ND	--	
57BK	1420	2.7	ND	--	
57M	1410	2.7	ND	--	9/7-8/95
57V	1425	2.7	ND	--	
58RB	1405	2.7	ND	--	
58A	1365	2.6	ND	--	
58BK	1250	2.4	ND	--	
58M	1170	2.2	ND	--	
58V-1	1140	2.2	ND	--	9/11-12/95
58V-2	FAILED LEAK CHECK				
59RB	1550	2.9	ND	--	
59A	1560	3.0	ND	--	
59BK	1540	2.9	ND	--	
59M	1535	2.9	ND	--	
59V-1	1530	2.9	ND	--	9/12-13/95
59V-2	1530	2.9	ND	--	
60RB	1365	2.6	ND	--	
60A	1350	2.6	ND	--	
60BK	1350	2.6	ND	--	
60M	1355	2.6	ND	--	
60V-1	1365	2.6	ND	--	9/13-14/95
60V-2	1365	2.6	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
61RB	1335	2.5	ND	--	
61A	1350	2.6	ND	--	
61BK	1380	2.6	ND	--	
61M	1380	2.6	ND	--	
61V-1	1365	2.6	ND	--	
61V-2	1365	2.6	ND	--	9/14-15/95
61B	BLANK	--	ND	--	
62RB	1380	2.6	ND	--	
62A	1380	2.6	ND	--	
62BK	1375	2.6	ND	--	
62M-1	1365	2.6	ND	--	
62M-2	1365	2.6	ND	--	
62V	1370	2.6	ND	--	9/18-19/95
62B	BLANK	--	ND	--	
63RB	1370	2.6	ND	--	
63A	1365	2.6	ND	--	
63BK	1360	2.6	ND	--	
63M-1	1370	2.6	ND	--	
63M-2	1370	2.6	ND	--	9/19-20/95
63V	1370	2.6	ND	--	
64RB	1385	2.6	ND	--	
64A	1385	2.6	ND	--	
64BK	1395	2.7	ND	--	
64M-1	1400	2.7	ND	--	
64M-2	1400	2.7	ND	--	9/20-21/95
64V	1390	2.6	ND	--	
65RB	1505	2.9	ND	--	
65A	1460	2.8	ND	--	
65BK	1380	2.6	ND	--	
65M-1	1325	2.5	ND	--	
65M-2	1325	2.5	ND	--	9/21-22/95
65V	1290	2.5	ND	--	
66RB	1365	2.6	ND	--	
66A	1365	2.6	ND	--	
66BK-1	1345	2.6	ND	--	
66BK-2	1345	2.6	ND	--	
66M	1350	2.6	ND	--	9/25-26/95
66V	1345	2.6	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
67RB	1410	2.7	ND	--	
67A	1405	2.7	ND	--	
67BK-1	1460	2.8	ND	--	
67BK-2	1460	2.8	ND	--	
67M	1445	2.7	ND	--	9/26-27/95
67V	1455	2.8	ND	--	
68RB	1410	2.7	ND	--	
68A	1420	2.7	ND	--	
68BK-1	1425	2.7	ND	--	
68BK-2	1425	2.7	ND	--	
68M	1430	2.7	ND	--	9/27-28/95
68V	1420	2.7	ND	--	
69RB	1550	2.9	ND	--	
69A	1505	2.9	ND	--	
69BK-1	1450	2.8	ND	--	
69BK-2	1450	2.8	ND	--	
69M	1350	2.6	ND	--	
69V	1330	2.5	ND	--	9/28-29/95
69B	BLANK	--	ND	--	
70RB	1320	2.5	ND	--	
70A-1	1320	2.5	ND	--	
70A-2	1320	2.5	ND	--	
70BK	1310	2.5	ND	--	
70M	1310	2.5	ND	--	10/2-3/95
70V	1320	2.5	ND	--	
71RB	1380	2.6	ND	--	
71A-1	1395	2.7	ND	--	
71A-2	1395	2.7	ND	--	
71BK	1393	2.7	ND	--	
71M	1400	2.7	ND	--	
71V	1395	2.7	ND	--	10/3-4/95
71B	BLANK	--	ND	--	
72RB	1380	2.6	ND	--	
72A-1	1385	2.6	ND	--	
72A-2	1385	2.6	ND	--	
72BK	1395	2.7	ND	--	
72M	1395	2.7	ND	--	10/4-5/95
72V	1395	2.7	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
73RB	1460	2.8	ND	--	
73A-1	1425	2.7	ND	--	
73A-2	1425	2.7	ND	--	
73BK	1355	2.6	ND	--	
73M	1285	2.4	ND	--	10/5-6/95
73V	1250	2.4	ND	--	
74RB	1385	2.6	ND	--	
74A	1380	2.6	ND	--	
74BK-1	1370	2.6	ND	--	
74BK-2	1370	2.6	ND	--	
74M	1360	2.6	ND	--	
74V	1360	2.6	ND	--	10/10-11/95
74B	BLANK	--	ND	--	
75RB	1355	2.6	ND	--	
75A	1360	2.6	ND	--	
75BK-1	1370	2.6	ND	--	
75BK-2	1370	2.6	ND	--	
75M	1375	2.6	ND	--	10/11-12/95
75V	1380	2.6	ND	--	
76RB	1445	2.7	ND	--	
76A	1390	2.6	ND	--	
76BK-1	1355	2.6	ND	--	
76BK-2	1355	2.6	ND	--	
76M	1280	2.4	ND	--	10/12-13/95
76V	1275	2.4	ND	--	
77RB	1400	2.7	ND	--	
77A	1345	2.6	ND	--	
77BK	1250	2.4	ND	--	
77M-1	1160	2.2	ND	--	
77M-2	1160	2.2	ND	--	10/16-17/95
77V	1165	2.2	ND	--	
78RB	1345	2.6	ND	--	
78A	1320	2.5	ND	--	
78BK	1460	2.8	ND	--	
78M-1	1345	2.6	ND	--	
78M-2	1345	2.6	ND	--	10/17-18/95
78V	1345	2.6	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
79RB	1475	2.8	ND	--	
79A	1490	2.8	ND	--	
79BK	1360	2.6	ND	--	
79M-1	1445	2.7	ND	--	
79M-2	1445	2.7	ND	--	
79V	1425	2.7	ND	--	10/18-19/95
79B	BLANK	--	ND	--	
80RB	1515	2.9	ND	--	
80A	1510	2.9	ND	--	
80BK	1510	2.9	ND	--	
80M-1	1520	2.9	ND	--	
80M-2	1520	2.9	ND	--	10/19-20/95
80V	1530	2.9	ND	--	
81RB	1245	2.4	ND	--	
81A	1255	2.4	ND	--	
81BK	1250	2.4	ND	--	
81M	1260	2.4	ND	--	
81V-1	1265	2.4	ND	--	10/23-24/95
81V-2	1265	2.4	ND	--	
82RB	1500	2.8	ND	--	
82A	1500	2.8	ND	--	
82BK	1485	2.8	ND	--	
82M	1470	2.8	ND	--	
82V-1	1480	2.8	ND	--	10/24-25/95
82V-2	1480	2.8	ND	--	
83RB	1345	2.6	ND	--	
83A	1340	2.5	ND	--	
83BK	1365	2.6	ND	--	
83M	1365	2.6	ND	--	
83V-1	1360	2.6	ND	--	10/25-26/95
83V-2	1360	2.6	ND	--	
84RB	1420	2.7	ND	--	
84A	1435	2.7	ND	--	
84BK	1435	2.7	ND	--	
84M	1425	2.7	ND	--	
84V-1	1430	2.7	ND	--	
84V-2	1430	2.7	ND	--	10/26-27/95
84B	BLANK	--	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
85RB-1	1320	2.5	ND	--	
85RB-2	1320	2.5	ND	--	
85A	1315	2.5	ND	--	
85BK	1320	2.5	ND	--	
85M	1330	2.5	ND	--	10/30-31/95
85V	1320	2.5	ND	--	
86RB-1	1430	2.7	ND	--	
86RB-2	1430	2.7	ND	--	
86A	1430	2.7	ND	--	
86BK	1430	2.7	ND	--	
86M	1420	2.7	ND	--	10/31-11/1/95
86V	1420	2.7	ND	--	
87RB-1	1415	2.7	ND	--	
87RB-2	1415	2.7	ND	--	
87A	1410	2.7	ND	--	
87BK	1380	2.6	ND	--	
87M	1390	2.6	ND	--	
87V	1395	2.6	ND	--	11/1-2/95
87B	BLANK	--	ND	--	
88RB-1	1350	2.6	ND	--	
88RB-2	1350	2.6	ND	--	
88A	1355	2.6	ND	--	
88BK	1395	2.7	ND	--	
88M	1395	2.7	ND	--	11/2-3/95
88V	1395	2.7	ND	--	
89RB	1250	2.4	ND	--	
89A-1	1260	2.4	ND	--	
89A-2	1260	2.4	ND	--	
89BK	1260	2.6	ND	--	
89M	1275	2.4	ND	--	11/6-7/95
89V	1275	2.4	ND	--	
90RB	1435	2.7	ND	--	
90A-1	1425	2.7	ND	--	
90A-2	1425	2.7	ND	--	
90BK	1425	2.7	ND	--	
90M	1415	2.7	ND	--	11/7-8/95
90V	1415	2.7	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
91RB	1430	2.7	ND	--	
91A-1	1430	2.7	ND	--	
91A-2	1430	2.7	ND	--	
91BK	1435	2.7	ND	--	
91M	1430	2.7	ND	--	
91V	1435	2.7	ND	--	11/8-9/95
91B	BLANK	--	ND	--	
92RB	1540	2.9	ND	--	
92A-1	Sample could not be collected - Veterans Day.				
92A-2	Sample Could not be collected - Veterans Day.				
92BK	1460	2.8	ND	--	
92M	1400	2.7	ND	--	11/9-10/95
92V	1380	2.6	ND	--	
93RB	1335	2.5	0.92	0.37	
93A	1340	2.6	0.30	0.12	
93BK-1	1350	2.6	0.34	0.13	
93BK-2	1350	2.6	0.34	0.13	
93M	1370	2.6	ND	--	
93V	1360	2.6	ND	--	11/13-14/95
93B	BLANK	--	ND	--	
94RB	1405	2.7	0.56	0.21	
94A	1405	2.7	0.35	0.13	
94BK-1	1390	2.6	0.97	0.37	
94BK-2	1390	2.6	0.95	0.37	
94M	1370	2.6	0.30	0.12	11/14-15/95
94V	1375	2.6	0.34	0.13	
95RB	1405	2.7	0.40	0.15	
95A	1410	2.7	1.6	0.59	
95BK-1	1390	2.6	4.9	1.9	
95BK-2	1390	2.6	5.2	2.0	
95M	1410	2.7	1.4	0.52	11/15-16/95
95V	1410	2.7	0.82	0.30	
96RB	1485	2.8	1.0	0.36	
96A	1450	2.8	0.48	0.17	
96BK-1	1410	2.7	0.54	0.20	
96BK-2	1410	2.7	0.45	0.17	
96M	1345	2.6	ND	--	11/16-17/95
96V	1315	2.5	0.30	0.12	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE II Kern Co. Telone Ambient Monitoring Data (Cont.)

Sample ID	Time (min.)	Volume (m ³)	Total (ug)	Concentration (ug/m ³)	Collection Dates
97RB	1245	2.4	ND	--	
97A	1240	2.4	ND	--	
97BK	1245	2.4	ND	--	
97M-1	1230	2.3	ND	--	
97M-2	1230	2.3	ND	--	11/27-28/95
97V	1240	2.4	8.6	3.6	
98RB	1440	2.7	ND	--	
98A	1435	2.7	ND	--	
98BK	1440	2.7	ND	--	
98M-1	1440	2.7	0.80	0.30	
98M-2	1440	2.7	0.58	0.21	11/28-29/95
98V	1430	2.7	ND	--	
99RB	1455	2.8	ND	--	
99A	1465	2.8	ND	--	
99BK	1460	2.8	ND	--	
99M-1	1465	2.8	2.0	0.71	
99M-2	1465	2.8	2.5	0.89	11/29-30/95
99V	1465	2.8	8.6	3.1	
100RB	1760	3.3	0.52	0.16	
100A	1655	3.1	0.31	0.10	
100BK	1510	2.9	0.70	0.24	
100M-1	1425	2.7	0.34	0.13	
100M-2	1425	2.7	0.42	0.16	
100V	1335	2.5	4.2	1.7	11/30-12/1/95
100B	BLANK	--	ND	--	

¹ RB = Rio Bravo School, A = Almondale School, BK = ARB's Ambient site, Bakersfield, M = Mt. View School, V = Vineland School. -1, -2 indicates duplicates taken at the same site.

All flows at 1.9 liters per minute.

ND = Not Detected, <0.3 ug/sample (approx. 0.1 ug/m³).

No values corrected for percentage of recovery.

TABLE III. Summary of Kern County Telone Data

Location	Number of 24-hour sampling periods ^{a)}	Number of samples above MDL ^{b)}	Maximum (ug/m ³)	Average ^{c)} (ug/m ³)
Shafer (Rio Bravo School)	98	12	27.	4.4
Rosedale 3.0 (Almondale School)	97	13	3.0	0.99
Bakersfield (ARB ambient site)	100	16	2.6	0.51
Lamont (Mt. View School)	99	22	8.1	0.86
Weed Patch (Vineland School)	100	23	8.8	1.8

^{a)} Collocated samples are averaged and used as a single sample for all data in this table

^{b)} MDL (Minimum Detection Limit) = 0.3 ug/ sample (approx. 0.1 ug/m³).

^{c)} Only samples above the MDL included.

TABLE IV. Telone QA/QC Data

Carbon Disulfide (CS₂)

Neat Spiking Solution Only ^a (CS ₂) 4/95			
ID	Level (ug)	Recovered	Percent
	0.60	0.78	130
	3.00	2.40	80

Laboratory Spikes (CS ₂) 4/95			
ID	Level (ug)	Recovered	Percent
Tel 1	3.75	1.52	41
Tel 2	6.00	2.80	47
Tel 3	2.25	1.46	65
Tel 4	3.75	1.88	50
Tel 5	2.25	1.35	60
Tel 6	6.00	3.42	57
Tel 7	0.00	ND	--

Telone Spikes Prepared in Hexane

Neat Spiking Solution Only ^a (Hexane) 5/95			
ID	Level (ug)	Recovered	Percent
	0.58	0.47	81
	1.16	0.88	76
	2.33	1.94	83

Laboratory Spikes (Hexane) 4/95			
ID	Level (ug)	Recovered	Percent
Sp-28	0.58	0.45	78
Sp-29	0.58	0.42	72
Sp-32	1.16	0.87	75
Sp-33	1.16	0.87	75
Sp-36	2.33	1.96	84
Sp-37	2.33	1.89	81

^aAn aliquot of working standard placed directly into 3 mL of solvent (carbon disulfide).

TABLE IV. Telone QA/QC Data (Cont.)

Field Spikes (Hexane) 4/95			
ID	Level (ug)	Recovered	Percent
Sp-26	0.58	0.27	47
Sp-27	0.58	0.21	36
Sp-30	1.16	0.42	36
Sp-31	1.16	0.45	39
Sp-34	2.33	1.14	49
Sp-35	2.33	0.99	42

Laboratory Spikes (Hexane) 5/95			
ID	Level (ug)	Recovered	Percent
Sp-36	0.58	0.45	77
Sp-37	0.58	0.45	77
Sp-38	1.16	0.75	64
Sp-39	1.16	0.81	81
Sp-40	2.33	1.64	70
Sp-41	2.33	1.68	72

QMOSB Laboratory Spikes (Hexane) 6/95			
ID	Level (ug)	Recovered	Percent
Tel 13	0.75	0.60	80
Tel 14	7.5	6.9	92
Tel 15	3.75	2.8	102
Tel 16	0.0	ND	--
Tel 17	7.5	7.2	96
Tel 18	15.0	15.	100
Tel 19	0.75	0.66	88
Tel 20	7.5	7.6	101
Tel 21	0.75	0.66	88
Tel 22	3.75	2.8	75
Tel 23	15.0	15.	100
Neat Std. #1	3.75	3.6	96
Neat Std. #2	3.75	3.9	104

TABLE IV. Telone QA/QC Data (Cont.)

QMOSB Field Spikes (Hexane) 6/95			
ID	Level (ug)	Recovered	Percent
Tel 24	1.5	1.2	80
Tel 25	1.5	1.1	73
Tel 26	1.5	1.2	80
Tel 27	1.5	1.1	73
Tel 28	1.5	1.1	73

GC/MS Confirmation 7/95		
#22RB	GC/ECD analysis	GC/MS Analysis
	24.1 ug/mL	22.2 ug/mL

QMOSB Field Spikes (Hexane) 8/95			
ID	Level (ug)	Recovered	Percent
Tel 29	1.5	0.05	33
Tel 30	1.5	0.65	43
Tel 31	1.5	0.60	40
Tel 32	1.5	0.68	45
Tel 33	1.5	0.35	23

QMOSB Laboratory Spikes (Hexane) 10/95			
ID	Level (ug)	Recovered	Percent
Tel 34	3.75	3.78	101
Tel 35	3.75	3.33	89

QMOSB Field Spikes (Hexane) 10/95			
ID	Level (ug)	Recovered	Percent
Tel 36	3.75	3.68	98
Tel 37	3.75	3.72	99
Tel 38	3.75	4.02	107
Tel 39	3.75	3.66	98

TABLE IV. Telone QA/QC Data (Cont.)

QMOSB Spikes (Hexane) 11/95 (Old Standards) ^{a)}			
ID	Level (ug)	Recovered	Percent
Tel 40	1.5	1.0	67
Tel 41	1.5	0.65	43
Tel 42	1.5	0.74	49
Tel 43	1.5	0.77	51
Tel 44	1.5	0.58	39
Tel 45	1.5	0.65	43

QMOSB Spikes (Hexane) 11/95 (Fresh Standards) ^{b)}			
ID	Level (ug)	Recovered	Percent
Tel 41	1.5	1.0	67
Tel 42	1.5	1.1	73
Tel 43	1.5	1.2	80

In-house Stability Study 10-11/95				
Day	Level (ug)	Recovered	Percent	Corrected Percent ^{c)}
0 (neat)	1.5	1.7	113	100
2	1.5	1.4	93	82
14	1.5	1.2	80	71
14	7.5	8.8	117	97
14	15.0	16.0	107	94
22	1.5	1.2	80	71
22	7.5	8.1	108	95
22	15.0	16.0	107	94
34	1.5	0.90	60	53

^{a)}Standards previously run on the autosampler.

^{b)}Standards freshly prepared from working standards stored in the freezer.

^{c)}All percentages "normalized" assuming 100% recovery for the neat sample (an aliquot of the working standard put directly into 3mL of the extraction solvent).