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Agency Secretary

# Air Resources Board

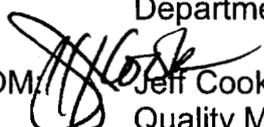


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TO: John Sanders, Ph.D., Chief  
Environmental Monitoring Branch  
Department of Pesticide Regulation

FROM:  Jeff Cook, Chief  
Quality Management Branch  
Monitoring and Laboratory Division

DATE: November 17, 2003

SUBJECT: FINAL REPORT FOR THE 2001 AMBIENT AIR MONITORING FOR  
CHLOROPICRIN AND METAM SODIUM BREAKDOWN PRODUCTS IN  
KERN COUNTY

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Attached is the final report "Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Kern County –Summer 2001." The report and separate volume of appendices for the report have also been forwarded to Randy Segawa and Shifang Fan of your staff. We received your April 29, 2003, comments and have made the requested changes.

If you or your staff have questions or need further information, please contact me at 322-3726 or Kevin Mongar at 322-2449.

Attachment/Separate Appendices

cc: See next page

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

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John Sanders, Ph.D., Chief  
November 17, 2003  
Page 2

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Mr. Kevin Mongar, (w/Attachment/Appendices)

California Environmental Protection Agency



**Ambient Air Monitoring  
for Chloropicrin and  
Breakdown Products of Metam Sodium  
in Kern County – Summer 2001**

Prepared by  
Operations Planning and Assessment Section  
Quality Management Branch  
Monitoring and Laboratory Division

Project No. P-01-004

Date: November 13, 2003

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.

**Monitoring Report Approval**

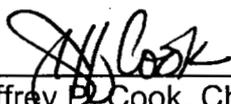
**Title:** Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Kern County – Summer 2001

**Project Lead:** Kevin Mongar, Air Pollution Specialist

**Report Prepared by:** Yun Pan-Huang, Air Pollution Specialist

**Approval:** The following monitoring report has been reviewed and approved by the Monitoring and Laboratory Division.

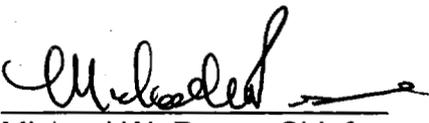
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## Executive Summary

### Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Kern County - Summer 2001

In June 2000, the California Department of Pesticide Regulation (DPR) requested that the Air Resources Board (ARB) conduct ambient air monitoring during 2001 for 1,3-dichloropropene (also known as Telone II or Telone), chloropicrin (also known as trichloronitromethane (TCNM)), and two breakdown products of metam sodium: methyl isothiocyanate (MITC) and methyl isocyanate (MIC). Monitoring was conducted in Kern County from June 30 through August 31, 2001, to coincide with the use of 1,3-dichloropropene, chloropicrin, and metam sodium prior to planting of a variety of crops. Coincident monitoring conducted during 2001 for the fumigants methyl bromide and 1,3-dichloropropene using canisters has been described in a separate report (*Ambient Air Monitoring for Methyl Bromide and 1,3-Dichloropropene in Kern County, Fall 2001, June 18, 2002*). Cartridge sampling for fumigants in Monterey and Santa Cruz Counties has also been described in a separate draft report (*Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Monterey and Santa Cruz Counties - Summer 2001, December 24, 2002*). Similar monitoring studies for methyl bromide and 1,3-dichloropropene were also conducted in Monterey, Santa Cruz, and Kern Counties during the year 2000.

The sampling site selection specifically focused on the use of 1,3-dichloropropene and metam sodium prior to planting carrots. In one case, a site was selected for monitoring based on its proximity to use of methyl bromide on roses. Ambient air samples were collected at five sites throughout the rose and carrot growing regions of Kern County and urban background samples were also collected in Bakersfield. The fall 2000 network was modified slightly for the 2001 sampling season for 1,3-dichloropropene, chloropicrin, MITC, and MIC, with new information becoming available. A site was relocated from Shafter to the Arvin High School in Arvin. Four samples of 24 hours in duration were collected randomly over the full seven-day week during the sampling period (usually four sample periods on weekdays).

#### Chloropicrin Results

Daily concentrations of chloropicrin ranged from <MDL to 750 nanograms per cubic meter of sampled air ( $\text{ng}/\text{m}^3$ ) (110 parts per trillion by volume (pptv)). The highest concentration was measured at the Vineland School District – Sunset School (VSD) site near the town of Weedpatch.

Eight-week average concentrations of chloropicrin ranged from <MDL to  $42 \text{ ng}/\text{m}^3$  (6.2 pptv). The highest average was measured at the Cotton Research Station (CRS) site near Shafter.

Of the 198 ambient air samples, five contained concentrations of chloropicrin above the EQL of  $152 \text{ ng}/\text{m}^3$ , three were found to have results of “detected,” 185 were below the MDL. Five were invalid due to the sampling flow rate outside the control limit.

### MITC (Breakdown Product of Metam Sodium) Results

Daily concentrations of MITC ranged from <MDL to 22 micrograms per cubic meter of sampled air ( $\text{ug}/\text{m}^3$ ) (7500 pptv). The highest concentration was measured at the Mountain View School (MVS) site in Lamont.

Eight-week average concentrations for MITC ranged from  $0.12 \text{ ug}/\text{m}^3$  (40 pptv) to  $2.5 \text{ ug}/\text{m}^3$  (840 pptv). The highest average was also measured at the MVS site.

Of the 198 ambient air samples, 87 contained concentrations of MITC above the EQL of  $0.42 \text{ ug}/\text{m}^3$ , 68 were found to have results of "detected," 41 were below the MDL. Two were invalid due to the sampling flow rate outside the control limit.

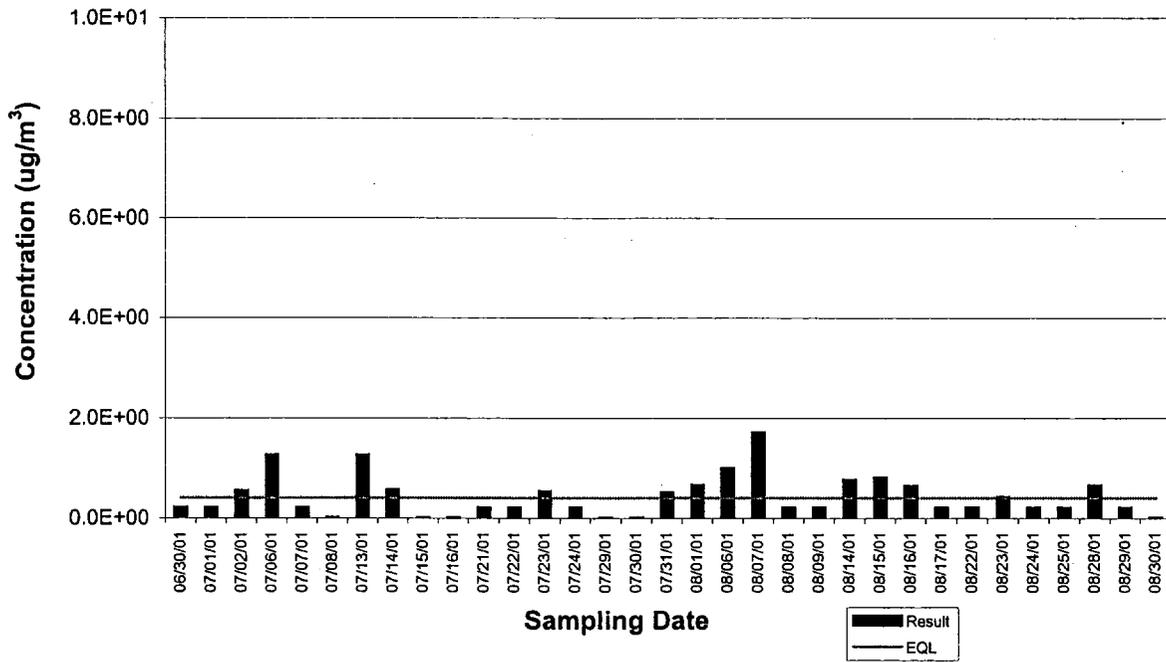
### MIC (Breakdown Product of Metam Sodium) Results

Of the 396 ambient air samples (198 front and 198 back), none contained concentrations above the EQL (reporting limit) of  $0.42 \text{ ug}/\text{m}^3$ . Eighteen samples had detectable results below the EQL (Det). Results for 374 samples were below the MDL. Four samples were invalid due to the sampling flow rate outside the control limit.

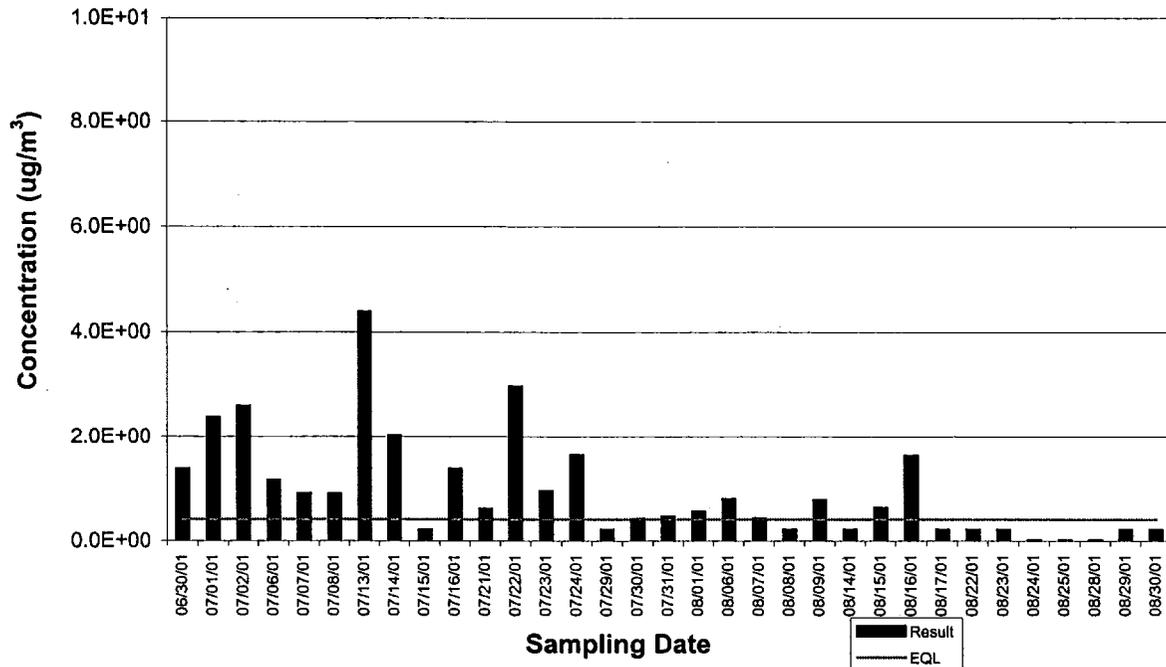
### Monitoring Result Bar Graphs

MITC results at each site are presented in bar graphs (Pages iv through vi). There are only five samples that have results above the EQL for chloropicrin and all samples have results below the EQL for MIC. Therefore, chloropicrin and MIC results have not been presented graphically.

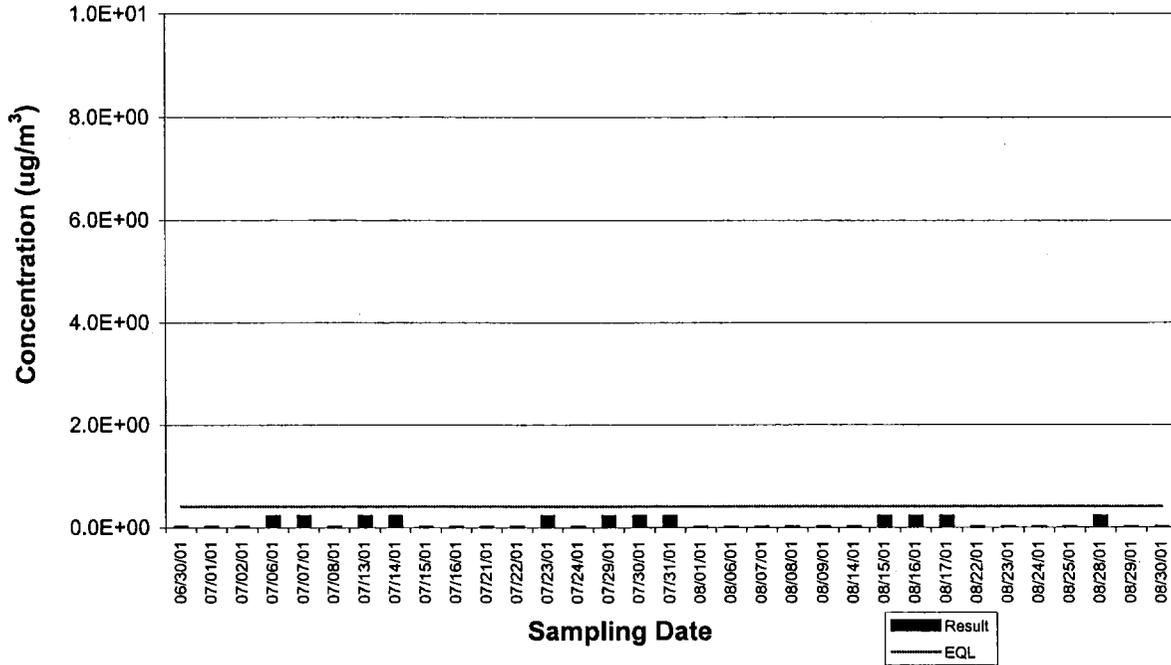
### MITC Results at the ARB Site



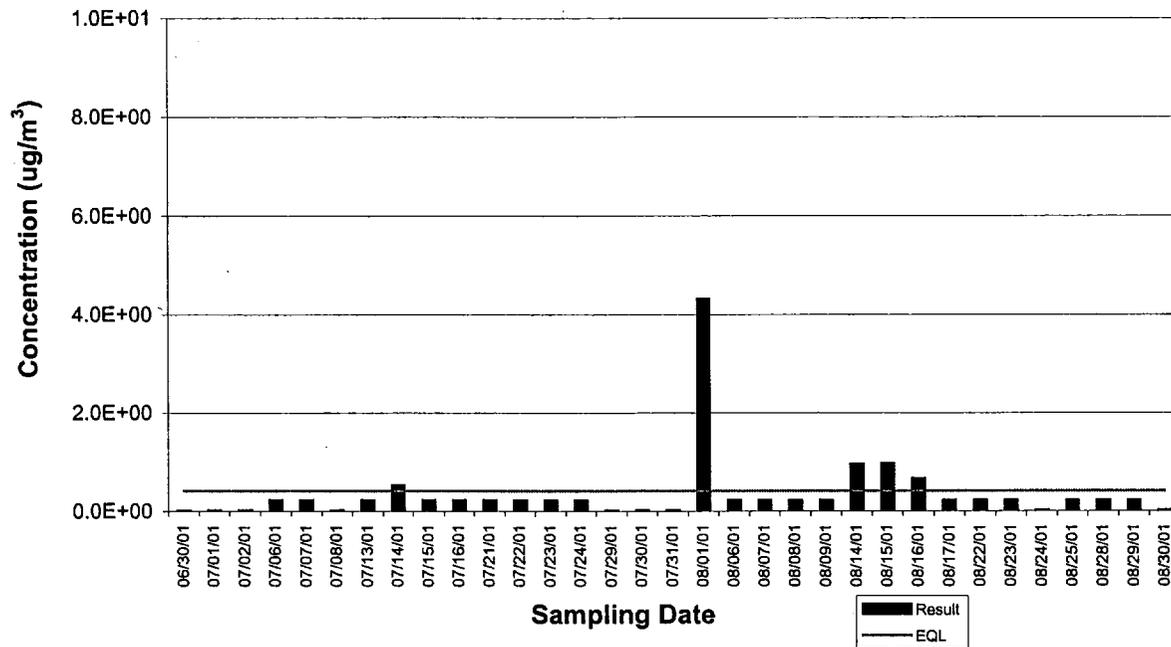
### MITC Results at the ARV Site



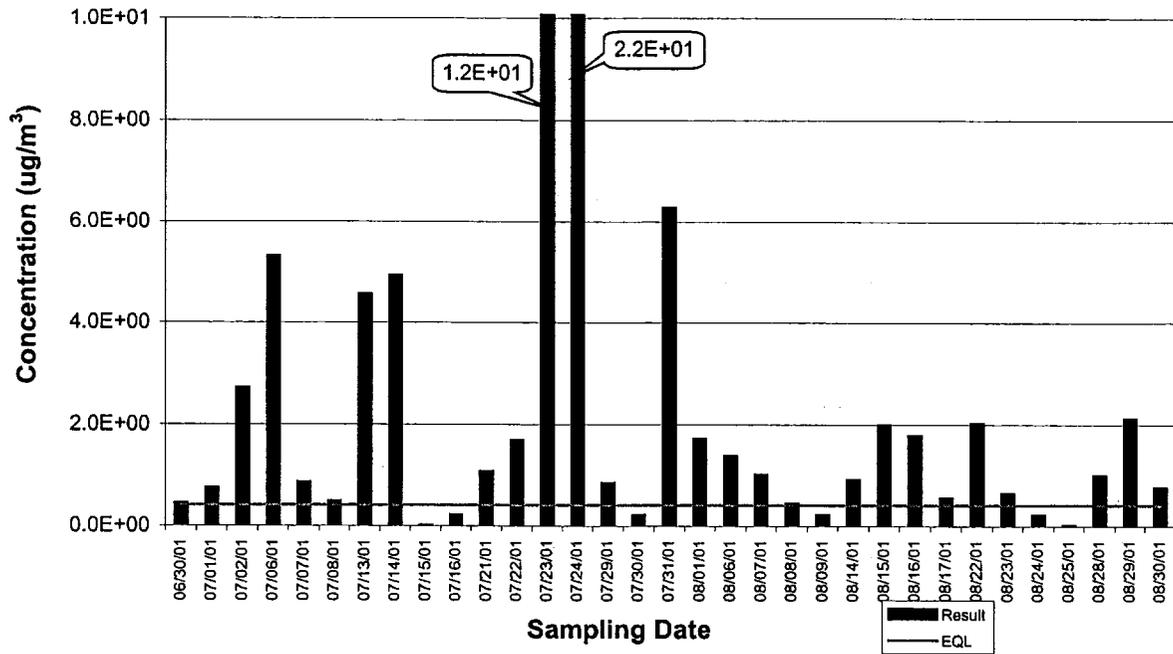
### MITC Results at the CRS Site



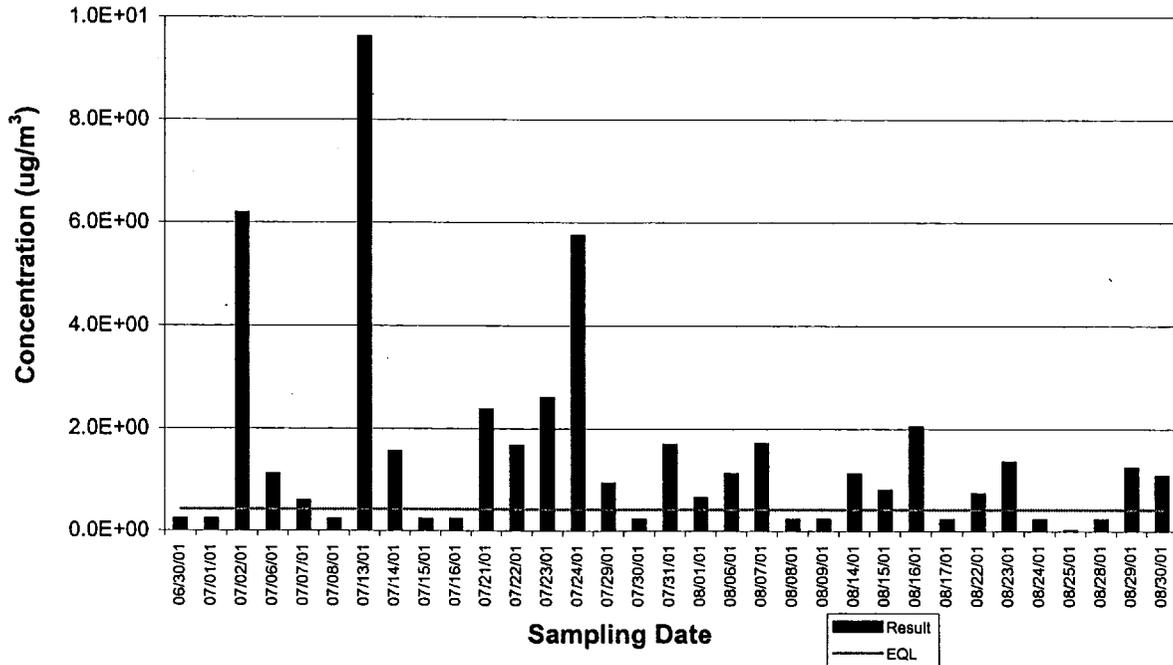
### MITC Results at the MET Site



### MITC Results at the MVS Site



### MITC Results at the VSD Site



## Acknowledgments

Assistance in sampling site selection was provided by Mr. Robert Wegis of the Kern County Agricultural Commissioner's Office. Staff of the Air Resources Board (ARB) Air Quality Surveillance Branch (AQSB) collected the ambient samples. Mr. Steve Rider of the AQSB coordinated the field work. Mr. Jim Omand, Ms. Theresa Houston and Mr. Mike Orbanosky of the ARB Special Analysis Section laboratory performed the method development and chemical analyses. Ms. Yun Pan of the Operations Planning & Assessment Section prepared the monitoring report. Mr. Lynn Baker of the ARB Stationary Source Division provided helpful advice and comments in regard to project planning and the monitoring protocol and report.

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Ambient Air Monitoring  
for chloropicrin, and  
breakdown products of metam sodium  
in Kern County – Summer 2001

**I. Introduction**

At the request of the California Department of Pesticide Regulation (DPR) (June 28, 2000, memorandum, Helliker to Lloyd and July 25, 2001, memorandum, Sanders to Cook), the Air Resources Board (ARB) staff determined airborne concentrations of the pesticides chloropicrin and two breakdown products of metam sodium: methyl isothiocyanate (MITC) and methyl isocyanate (MIC). Monitoring was conducted in Kern County from June 30 through August 31, 2001, to coincide with the use of the soil fumigants prior to planting of a variety of crops. The sampling site selection specifically focused on the use of metam sodium and 1,3-dichloropropene prior to planting carrots. This monitoring was done to fulfill the requirements of AB 1807/3219 (Food and Agricultural Code, Division 7, Chapter 3, Article 1.5), which requires the ARB "to document the level of airborne emissions... of pesticides which may be determined to pose a present or potential hazard..." when requested by the DPR. The ARB Special Analysis Section of the Northern Laboratory Branch conducted the method development and sample analyses. The ARB Air Quality Surveillance Branch staff conducted sample collections for the ambient study. Similar monitoring studies for chloropicrin, and breakdown products of metam sodium were conducted in Kern, Monterey, and Santa Cruz Counties during 2000. Coincident monitoring for methyl bromide and 1,3-dichloropropene in canisters has been reported separately. MITC samples were also analyzed for 1,3-dichloropropene. These data are included in Appendix VIII for comparison with the previously reported canister data.

The protocol for the ambient air monitoring for chloropicrin, and breakdown products of metam sodium is enclosed separately as Appendix I (Page 1 of a separate volume of Appendices to this report). The protocol Attachments have not been included in Appendix I, but are available upon request. The protocol Attachments included standard operating procedures (SOP) which are reproduced in the laboratory report (i.e., for 1,3-dichloropropene, chloropicrin, MITC and MIC in Appendix II). The protocol Attachments also included the "Quality Assurance Plan for Pesticide Air Monitoring". The protocol Attachments that are relevant to this report, the "Pesticide Ambient Sampling Procedures for Adsorbent Tubes" and the "Adsorbent Tube Sampling Field Log Sheet", are included separately as Appendix VI and VII (Page 143 and 146 of a separate volume of Appendices to this report), respectively.

The laboratory report, "Air Sampling Cartridge Method Development and Analytical Results for Ambient Monitoring in Kern County", is enclosed separately as Appendix II. The SOPs for 1,3-dichloropropene, chloropicrin, MITC and MIC are also enclosed as Appendix II (Page 13 of a separate volume of Appendices to this report).

The field data sheets for MIC are enclosed separately as Appendix III (Page 77 of a separate volume of Appendices to this report). The field data sheets for chloropicrin are enclosed separately as Appendix IV (Page 109 of a separate volume of Appendices to this report). The field data sheets for MITC and 1,3-dichloropropene are enclosed separately as Appendix V (Page 126 of a separate volume of Appendices to this report).

## **II. Chemical Properties of Chloropicrin, Metam Sodium and its Breakdown Products, MITC and MIC**

Information regarding the chemical properties of chloropicrin, metam sodium, MITC and MIC are summarized in the DPR's July 25, 2001, memorandum, "Use Information and Air Monitoring Recommendations for Field Fumigations with the Pesticide Active Ingredients 1,3-Dichloropropene, Chloropicrin, Metam Sodium, and Methyl Bromide". Chloropicrin photodegrades to carbon dioxide, bicarbonate, chloride, nitrate, and nitrite with a half-life of 31 hours. Metam sodium decomposed to MITC within four days when in contact with moist soil. In laboratory experiments, using ambient solar radiation, MITC half-lives range from 29 to 39 hours and resulted in the product of MIC, methylamine, N-methyl formamide, sulfur dioxide, hydrogen sulfide, and carbonyl sulfide. Research suggests that MIC may be the major stable photochemical product formed in the atmosphere.

## **III. Sampling**

The monitoring study in Kern County was conducted from June 30 through August 31, 2001. The collection media used for monitoring of MITC and 1,3-dichloropropene are charcoal cartridges. The media used for chloropicrin are XAD-four sampling cartridges. The media used for MIC are derivatized XAD-7 sampling cartridges. Individual samples were collected for approximately 24-hour periods. For ambient fumigant monitoring conducted in 2000, 24-hour samples were collected four days per week, Monday through Friday. However, for the 2001 monitoring, the DPR had requested that, "At each site, four samples per week should be collected randomly over the full seven-day week during the sampling period". To accommodate this request, the sampling schedule was arranged, generally in groups of four consecutive sampling periods separated by one, two, or three off-days, to add sampling days during most of the weekends during the eight-week monitoring study.

The cartridge monitoring study included 198 individual sampling periods (six sites x 33 sampling days). Collocated (duplicate) samples were collected for one day/week at each sampling location. Trip blanks were submitted once per week.

### **A. Sampling Method**

The sampling methods require passing measured quantities of ambient air through adsorbent sampling tubes. For chloropicrin, the tubes are 8 mm x 150 mm, XAD-4, with 400 mg in the primary section, and 200 mg in the secondary section (SKC special order). For MIC, the tubes are 6 mm x 90 mm, XAD-7, 1-(2-pyridyl)piperazine coated, with 80 mg in the primary section, and 40 mg in the secondary section (Supelco special order). Two tubes (front and back) were used in sequence for the MIC sampling. For

MITC and 1,3-dichloropropene, the tubes are 8 mm x 110 mm, coconut shell charcoal with 400 mg in the primary section, and 200 mg in the secondary section (SKC catalogue #226-09). Sample collection was at a flow rate of 0.09 standard liters per minute (slpm) for chloropicrin; at 0.075 slpm for MIC; and at 2.5 slpm for MITC and 1,3-dichloropropene. All samples were approximately 24 hours in duration. Subsequent to sampling, the tubes were capped, labeled, placed in a culture tube and stored and transported to the ARB laboratory in Sacramento in an insulated container with dry ice.

Each sample train consists of an adsorbent tube, Teflon fittings and tubing, rain/sun shield, rotameter, train support and a 115 volts AC vacuum pump. Tubes were prepared for use by breaking off the sealed glass end and immediately inserting the tube into the Teflon fitting. The tubes were oriented in the sample train according to a small arrow printed on the side indicating the direction of flow. The appropriate arranged needle valves were used to control the flow rate. The flow rates were set using a calibrated digital mass flow meter (MFM) before the start of each sampling period. A MFM scaled from 0-5 slpm was used for MITC and a 0-100 sccpm MFM was used for the chloropicrin and MIC samplers. The flow rate was also checked and recorded, using the MFM, at the end of each sampling period. Samplers were leak checked prior to each sampling period with the sampling tubes installed. Any changes in flow rates were recorded in the field logbook. The pesticide ambient sampling procedures for adsorbent tubes and the adsorbent tube sampling field log sheets are enclosed as Appendix VI and VII (Page 143 and 146 of a separately volume of Appendices to this report), respectively.

#### B. Sampling Site Selection

The historical use patterns for 1,3-dichloropropene, chloropicrin, and metam sodium suggested that monitoring should occur in Kern County during the months of July and August to coincide with the use of the three soil fumigants prior to the planting of a variety of crops. Monitoring was conducted in Kern County from June 30 through August 31, 2001. The site selection specifically focused on the use of 1,3-dichloropropene and metam sodium prior to planting carrots. Five sampling sites were selected by ARB personnel "in populated areas or in areas frequented by people" (DPR's July 25, 2001, memorandum). Site selection was based upon considerations for accessibility, security of the sampling equipment, and compliance with technical siting requirements. Urban background samples were collected at the ARB air monitoring site in Bakersfield. Five of the sampling sites were the same as for the monitoring conducted during 2000 and the sixth site was relocated from the lowest 1,3-dichloropropene site (Shafter) from the 2000 monitoring to the Arvin High School (the ARV site). The six sites are presented in Figure 1 and listed in Table 1. Although the sampling sites are near areas of historical use of 1,3-dichloropropene, chloropicrin, and metam sodium, it is understood that DPR staff will verify and quantify the actual use of 1,3-dichloropropene, chloropicrin, and metam sodium that occurred during the study when the information becomes available.

Table 1  
Ambient Sampling Sites

ARB	ARB Ambient Air Monitoring Station 5558 California Avenue, Suite 460 Bakersfield, CA 93309 Section/Township/Range: S.34/T.29S/R.27E GPS Coordinates: N. 35° 21.40' W. 119°03.76'	(661) 334-3991 Phil Powers, Air Pollution Specialist
CRS	Cotton Research Station 17053 Shafter Avenue Shafter, CA 93263 Section/Township/Range: S.33/T.27S/R.25E GPS Coordinates: N. 35° 31.96' W. 119°16.91'	(661) 868-6210 Dr. Brian Marsh, Superintendent
MVS	Mountain View School 8001 Weedpatch Highway Lamont, CA 93241 Section/Township/Range: S.30/T.30S/R.29E GPS Coordinates: N. 35° 16.90' W. 118°54.83'	(661) 845-6518 Dave Beckman, Director of Maintenance
VSD	Vineland School District – Sunset School 8301 Sunset Boulevard Bakersfield, CA 93307 Section/Township/Range: S.19/T.31S/R.29E GPS Coordinates: N. 35° 13.25' W. 118°54.77'	(661)845-3713 Steve Greenfield, District Superintendent
ARV	Arvin High School 900 Varsity Avenue Arvin, CA 93203 Services Section/Township/Range: S.NW23/T.31S/R.29E GPS Coordinates: N. 35° 13.02' W. 118°50.24'	(661) 827-3181 Janet Shell, Director of Business
MET	Mettler Fire Station 1801 Mettler Frontage Road Mettler, CA 93381 Section/Township/Range: S.1/T.11N/R.20W GPS Coordinates: N. 35° 03.83' W. 118°58.25'	(661) 391-7025 LeCostel Hailey, Deputy Chief

**ARB**

The background site is located at the ARB's ambient air monitoring station in the city of Bakersfield. This station monitors concentrations and collects samples of most criteria gas and particulate pollutants, as well as toxics and meteorological data. The site is located in an area having a mix of suburban, business offices, and strip malls.

Bakersfield has population of over 222,000. The pesticide samplers were operated on the roof with their inlets about 17 feet above ground level. No obstructions were present, and the site met all technical siting requirements. Elevation of the site is  $\leq$  446 feet above mean sea level (MSL). No carrot fields were noted within a three mile radius.

### **CRS**

The Cotton Research Station is a part of the University of California Agricultural Research Center, which is located in an agricultural area approximately two miles north of the city of Shafter, which has a population of less than 12,000. The pesticide samplers were operated just off the ground on a pallet west of the station's buildings alongside the station's meteorological site. Sampler intakes were about 5.5 feet above ground level. No obstructions were present, and the site met all technical siting requirements. Elevation of the site is  $\leq$  475 feet above MSL. The nearest carrot field noted was 2.1 miles to the east-southeast. The nearest rose fields are approximately one mile to the north and northwest. No chloropicrin or metam sodium was used at the CRS during 2001. 1,3-dichloropropene was applied once during 2001, on March 19, at the CRS.

### **MVS**

The Mountain View School site is located on State Highway 184 in the city of Lamont, which is approximately 8 miles southeast of Bakersfield. The sampling site is in a rural, residential/agricultural mixed area on the north side of Lamont, which has a population of less than 12,000. The pesticide samplers were operated on the roof of one of the school buildings, and their inlets were about 23 feet above ground level. No obstructions were present and the site met all technical siting requirements. Elevation of the site is  $\leq$  440 feet above MSL. No carrot fields were noted within a three mile radius.

### **VSD**

The Vineland School District Site is located on the grounds of Sunset School, which is in the area of Weedpatch, an unincorporated area of the city of Bakersfield. This site is two miles south of the Mountain View site, just off Highway 184, and approximately 10 miles from central Bakersfield. This sampling site is located in a rural, agricultural/residential mixed area. The pesticide samplers were operated on the roof of one of the school buildings, and their inlets were about 20 feet above ground level. No obstructions were present, and the site met all technical siting requirements. Elevation of the site is  $\leq$  414 feet above MSL. Carrot fields were noted at 335 feet north and 692 feet east of samplers. Neither field was planted until mid-August.

### **ARV**

The Arvin High School site is located in an agricultural/residential mixed area at the north end of the city of Arvin, which has a population of less than 12,000. The pesticide samplers were operated on the roof of one of the school buildings, and their inlets were

about 20 feet above ground level. No obstructions were present, and the site met all technical siting requirements. Elevation of the site is  $\leq$  512 feet above MSL. A small carrot field was noted 0.7 miles north of the samplers.

#### **MET**

The Mettler Fire Station site is located in a rural, residential/agricultural mixed area in the town of Mettler, which has a population of  $\leq$  2,000. Mettler is situated near the intersection of State Highways 99, 166, and Interstate 5. The pesticide samplers were operated on the roof of a carport and their inlets were about 18 feet above ground level. The site did not meet all technical siting requirements. A tree stood 18 feet north of the samplers and was about 35 feet above the sample inlet. Trees blocked approximately 75% of the NW quadrant. Elevation of the site is  $\leq$  554 feet above MSL. Carrot fields were noted 3.0 miles north and 0.2 miles to east across highway from samplers.

#### **IV. Analytical Methodology**

The standard operating procedures for sampling and analysis of 1,3-dichloropropene, chloropicrin, and breakdown products of metam sodium in cartridges are enclosed in Appendix II.

Per 40 CFR, Part 136, Appendix B, method detection limit (MDL) was determined by analysis of 7 replicate cartridge spikes (near the estimated detection limit) for 1,3-dichloropropene, chloropicrin and MITC. The MDL=(3.14) times standard deviation, calculated from the seven replicate results. The analytical estimated quantitation limit (EQL)=(5) times MDL. The lowest calibration standard was used by the laboratory staff to assign the MDL and EQL for MITC.

##### **A. MITC and 1,3-Dichloropropene**

The procedures specify that the ambient air is collected on the coconut based charcoal cartridges for 24 hours at 2.5 slpm flow rate. The samples were stored in an ice chest on dry ice or in refrigerator until extracted with three milliliters (ml) of dichloromethane. A GC/MSD in the SIM mode is used for analysis.

As stated previously, the lowest calibration standard concentration was used by the laboratory as the reporting limit (EQL) for MITC. The lowest calibration standard concentration was set at 0.5 ug/ml (1.5 ug/sample based on a 3 ml extraction volume) which resulted in a reported EQL of 0.42 ug/m<sup>3</sup> for MITC based on a 2.5 slpm sampling flow rate for a 24-hour period. The target 24-hour EQL requested by DPR for MITC was 0.5 ug/m<sup>3</sup>. The MDL for MITC, following CFR 40, Part 136, Appendix B format, achieved by the laboratory staff was 0.12 ug/sample (refer to the SOP, Page 62 of the separate volume of appendices) which corresponds to an EQL of 0.6 ug/sample. Thus the reporting limit (EQL) assigned by the laboratory staff was 2.5 times higher than the EQL calculated following CFR 40, Part 136, Appendix B.

The target 24-hour EQL requested by DPR for total 1,3-dichloropropene was 10 ng/m<sup>3</sup>. The MDL and EQL for each 1,3-dichloropropene isomer achieved by the laboratory staff were 3 ng/sample and 15 ng/sample, respectively. This corresponds to an EQL of 4.2 ng/m<sup>3</sup> sampled air for each 1,3-dichloropropene isomer.

#### B. Chloropicrin

The procedures specify that the ambient air is collected on the XAD-4 resin cartridges for 24 hours at a flow rate of 0.1 slpm. The samples were stored in an ice chest on dry ice or in refrigerator until extracted with three ml of dichloromethane. A GC/MSD in the SIM mode is used for analysis. The target 24-hour EQL requested by DPR for chloropicrin was 100 ng/m<sup>3</sup>. The MDL and EQL achieved by the laboratory staff were 3.96 ng/sample and 19.8 ng/sample, respectively. This corresponds to an EQL of 137.5 ng/m<sup>3</sup> at flow rate of 0.1 slpm. The actual sampling flow rate was 0.09 slpm. This resulted in an EQL of 152 ng/m<sup>3</sup> for chloropicrin, which is higher than requested EQL. The GC/MSD was run in the SIM mode to achieve the highest level of instrument sensitivity. The EQL reported is the lowest that could be achieved for chloropicrin.

#### C. MIC

The procedures specify that the ambient air is collected on the derivatized XAD-7 resin cartridges for 24 hours at a flow rate of 0.075 slpm. The samples are stored in an ice chest on dry ice or refrigerator until extracted with 3 ml of acetonitril. A HPLC with a fluorescence detector is used for the analysis. The target 24-hour EQL requested by DPR for MIC was 0.05 ug/m<sup>3</sup>. The MDL and EQL achieved by the laboratory staff were 0.009 ug/sample and 0.045 ug/sample, respectively. This corresponds to an EQL of 0.42 ug/m<sup>3</sup> sampled air, which is approximately eight times higher than requested. The EQL reported are the lowest that could be achieved by laboratory. The DPR directed that the monitoring for MIC should be conducted as planned even with the EQL higher than requested.

### **V. Monitoring Results**

All samples were extracted and analyzed within seven days of receipt.

For all four compounds, results below the MDL were reported as <MDL, results equal to or above the MDL but below the EQL were reported as detected (DET), laboratory results equal to or above the EQL were reported to three significant figures, concentrations in sampled air were reported to two significant figures. To maintain consistency with laboratory report, chloropicrin data were reported in units of ng/m<sup>3</sup> and MITC and MIC were reported in units of ug/m<sup>3</sup>. No sample results have been adjusted or corrected for recoveries of quality assurance spike samples.

#### A. Chloropicrin

Table 2 presents the results of ambient air monitoring for chloropicrin in units of ng/m<sup>3</sup> and pptv. Summaries of the ambient results for chloropicrin are presented in Table 3. The monitoring period included 198 individual sampling periods (6 sites x 33 sampling days).

The equation used to convert chloropicrin air concentration results from units of ng/m<sup>3</sup> to units of pptv at one atmosphere and 25°C is shown below:

$$\text{pptv} = (\text{ng/m}^3) \times \frac{(0.0820575 \text{ liter-atm/mole-}^\circ\text{K})(298^\circ\text{K})}{(1 \text{ atm})(164.4 \text{ gram/mole})} = (0.1487) \times (\text{ng/m}^3)$$

For chloropicrin, of the 198 ambient air samples collected (spikes, blanks, and the lower value of each collocated pair excluded), five were found to be above the EQL, three were found to have results of “detected”, 185 were below the MDL, five were invalid due to the sampling flow rate outside the control limit. The highest chloropicrin concentration, 750 ng/m<sup>3</sup> (110 pptv), was observed at the Vineland School District – Sunset School (VSD) sampling site on July 29, 2001.

#### B. MITC

Table 5 presents the results of ambient air monitoring for MITC in units of ug/m<sup>3</sup> and pptv. Summaries of the ambient results for MITC are presented in Table 6. The monitoring period included 198 individual sampling periods (6 sites x 33 sampling days).

The equation used to convert MITC air concentration results from units of ug/m<sup>3</sup> to units of pptv at one atmosphere and 25°C is shown below:

$$\text{pptv} = (\text{ug/m}^3) \times 1000\text{ng/ug} \times \frac{(0.0820575 \text{ liter-atm/mole-}^\circ\text{K})(298^\circ\text{K})}{(1 \text{ atm})(73.12 \text{ gram/mole})} = (334.4) \times (\text{ug/m}^3)$$

For MITC, of the 198 ambient air samples collected (spikes, blanks, and the lower value of each collocated pair excluded), 88 were found to be above the EQL, 68 were found to have results of “detected”, 41 were below the MDL. One was invalid. The highest MITC concentration, 22 ug/m<sup>3</sup> (7500 pptv), was observed at the Mountain View School (MVS) sampling site on July 24, 2001.

#### C. MIC

Table 8 presents the results of ambient air monitoring for MIC in units of ug/m<sup>3</sup> and pptv. Summaries of the ambient results for MIC are presented in Table 9. The monitoring period included 198 individual sampling periods (6 sites x 33 sampling days). Two XAD-7 cartridges (front and back) were used in sequence for the MIC sampling and they were extracted and analyzed separately.

The equation used to convert MIC air concentration results from units of ug/m<sup>3</sup> to units of pptv at one atmosphere and 25°C is shown below:

$$\text{pptv} = (\text{ug/m}^3) \times 1000\text{ng/ug} \times \frac{(0.0820575 \text{ liter-atm/mole-}^\circ\text{K})(298^\circ\text{K})}{(1 \text{ atm})(57 \text{ gram/mole})} = (429.0) \times (\text{ug/m}^3)$$

For MIC, of the 396 (198 front tubes and 198 back tubes) ambient air samples collected (spikes, blanks, and the lower value of each collocated pair excluded), none were found to be above the EQL, 18 were found to have results of “detected”, 374 were below the

MDL, four were invalid due to the sampling flow rate outside the control limit. Of the 18 "detected" samples, 14 were found in front tubes only and two were found in both front and back tubes.

**D. Cartridge and Canister Results for 1,3-Dichloropropene**

Simultaneous monitoring was conducted for 1,3-dichloropropene using SilcoCan™ sampling canisters and cartridge. The canister results for 1,3-dichloropropene (reported separately) should be considered as the "official" results for the monitoring study. The 1,3-dichloropropene cartridge results are included as Appendix VIII of this report. The 1,3-dichloropropene cartridge results were obtained from the same sampling/analysis procedure used for MITC. Minimal additional work was required to provide the cartridge results for 1,3-dichloropropene. As such, the DPR requested cartridge results be reported for comparison with the canister results. The table below provides a comparison of the maximum and average canister and cartridge results for 1,3-dichloropropene as measured during the 2001 Kern County Monitoring Study.

**Canister & Cartridge Results for Total 1,3-Dichloropropene  
(Maximum & Average) In Kern County 2001 (ng/m<sup>3</sup>)**

	Site	ARB	ARV	CRS	MET	MVS	VSD
Maximum	Canister	690	96,000	2,900	14,000	7,500	36,000
	Cartridge	530	65,000	2,100	13,000	5,400	25,000
Ratio (Max.)*		1.3	1.5	1.4	1.1	1.4	1.4
Average	Canister	290	6,400	490	2,100	1,200	3,200
	Cartridge	130	2,800	110	810	870	1,500
Ratio (Ave.)**		2.2	2.3	4.5	2.6	1.4	2.1

\*Ratio (Max.) = maximum canister result/maximum cartridge result for each site

\*\*Ratio (Ave.) = average canister result/average cartridge result for each site

**VI. Quality Control (QC)**

Field QC for the ambient monitoring included the following:

- 1) Four field spikes (same environmental and experimental conditions as those occurring at the time of ambient sampling) prepared by the Special Analysis Section staff; the field spikes were obtained by sampling ambient air at the background monitoring site for 24-hour periods (collocated with an ambient sample);
- 2) Four trip spikes;
- 3) Collocated (duplicate) samples taken once per week at each sampling location; and
- 4) One trip blank submitted per week;
- 5) The battery operated mass flow meters used to set and check the sampling flow rate were calibrated by the ARB Program Evaluation and Standards Section.

- 6) Pesticide sampler flow audit was performed by Quality Assurance Section (QAS) on May 24, 2001, at the MLD's 14<sup>th</sup> and S street facility. All pesticide sampler flow rates were operating within the QAS's  $\pm 10\%$  control limit.

For the cartridge pesticide samplers, the flow rates were set and recorded at the start of every sampling period (every sample) using a calibrated, battery operated, digital mass flow meter. The flow rates were also checked and recorded at the end of each sampling period using a calibrated mass flow meter.

## **VII. Quality Control Results**

### **A. Trip Blank Results**

Referring to Appendix II, laboratory report, Table 11 (Page 56 of a separate volume of Appendices to this report), eight trip blanks were analyzed for each pesticide and all trip blanks results were <MDL.

### **B. Collocated Sample Results**

The relative percent difference (RPD) of the collocated results ( $RPD = (|difference|/average) \times 100$ ) are summarized and discussed below. The RPD provides an indication of the precision of the monitoring method (i.e., the lower the RPD the better the precision).

	total-DCP	chloropicrin	MITC	MIC
Average RPD	7.1%	12%	5.2%	NA
Range of RPD	0.2% to 41%	NA	0.1% to 24%	NA

*1,3-dichloropropene*: Referring to Appendix VIII, Table 3, 35 collocated pairs of samples had both total 1,3-dichloropropene results above the EQL. The results indicate acceptable precision for the method.

*Chloropicrin*: Referring to Table 4, only one collocated pair of samples had both chloropicrin results above the EQL. The results indicate acceptable precision for the method.

*MITC*: Referring to Table 7, 25 collocated pairs of samples had both MITC results above the EQL. The RPD of MITC data pairs averaged 5.2% and ranged from 0.1% to 23.8%. The results indicate acceptable precision for the method.

*MIC*: Referring to Table 10, none of samples had MIC results above the EQL.

### **C. Laboratory, Trip, and Field Spikes**

The purpose of collecting spiked samples is to assess the accuracy (% recovery) of the sampling and analytical methods. The field spikes are collected by sampling ambient

air through the previously spiked cartridges at the one of the sampling sites. Thus, the field spikes provide an assessment of the accuracy of the entire method and are collected under the same environmental and experimental conditions as those occurring at the time of ambient sampling. The lab and trip spikes are used to confirm the field spike results or to help identify the source of losses (problems) when they occur in the field spikes.

Laboratory, trip, and field spikes were prepared by spiking a known amount of the target compounds onto the appropriate cartridges. The spikes were made and collected in four separate sets, one every other week for the eight-week sampling period. The laboratory spikes were placed immediately in a freezer and kept there until extraction and analysis. The trip and field spikes were kept in the lab freezer until transported to the field. The trip spikes were kept on dry ice in an ice chest (the same one used for samples) during transport to and from the field and at all times while in the field except log-in and labeling.

The spiked values (per sample) are as follows for all laboratory, trip, and field spikes: 240 ng for total 1,3-dichloropropene (120 ng for each isomer); 120 ng for chloropicrin; 12 µg for MITC; and 0.60 µg for MIC. The extraction and analysis of each set of laboratory, trip and field spikes normally occurs at the same time. The collocated (unspiked) sample result was subtracted from the field spike sample result before calculation of percent recovery of the analytes. The lab, trip and field spike results (average % recovery) are summarized and discussed below.

	cis-DCP	trans-DCP	chloropicrin	MITC	MIC
Lab	64%	63%	83%	45%	125%
Trip	69%	68%	89%	45%	110%
Field	80%	85%	62%	48%	100%

*1,3-Dichloropropene:* The spike results for 1,3-dichloropropene are listed in Appendix VIII, Tables 4 through 6. The field spike recoveries for 1,3-dichloropropene (cis- and trans-) were higher than the laboratory spike recoveries. The laboratory report states (Page 22 of a separate volume of Appendices to this report):

“Inconsistencies in the spikes and recoveries were observed in the beginning of the study. The DCP laboratory spike recoveries for the analytical batches are 63.9% and 63.4% for the cis and trans isomer, respectively. The field spikes recovery after subtracting the collocated background is 79.8% and 85.1%, respectively, for the cis/trans isomers. The chromatographs indicate that there may be some interference near the retention time of the cis isomer. This is particularly noticeable at a lower concentration.”

The lab, trip and field spike results indicate that the sampling and analysis method provides acceptable results for 1,3-dichloropropene.

*Chloropicrin:* The spike results for chloropicrin are listed in Tables 14 through 16. The laboratory and trip spike recoveries for ‘Spike 4’ and ARB28TS log # 224 were low

(31% and 0% respectively). The lab report indicates that this may be from spiking errors (Page 21 of a separate volume of Appendices to this report). These low results were not included in the average recovery results listed above.

The field spike recoveries were lower than laboratory and trip spikes for chloropicrin. This indicates that some chloropicrin was possibly lost during the sampling. Even considering a possible slight loss, the lab, trip and field spike results indicate that the sampling and analysis method provides acceptable results for chloropicrin.

*MITC*: The spike results for MITC are listed in Tables 11 through 13. The laboratory, trip, and field spike recoveries for MITC were consistent with each other, but lower than laboratory spiking solution results of average recovery of 83% (Page 50 of a separate volume of Appendices to this report, Table 5 of laboratory report in Appendix II). The laboratory control sample (LCS) results with average recovery of 51% (Page 52 of a separate volume of Appendices to this report, Table 7, of laboratory report in Appendix II) were also lower than the laboratory spiking solution results. The laboratory spiking solution results were obtained by analysis of the spiking solution directly on the GC/MSD without extraction. The LCSs were cartridges (charcoal tubes) spiked with MITC spiking solution, then extracted with dichloromethane and analyzed on the GC/MSD. This indicates that the low spike recoveries for MITC are caused in part by the low extraction efficiency (as indicated from the direct injection). The laboratory report does not provide an explanation of the low spiking standard results. However, the laboratory report (Appendix II, Page 22) states:

"The recovery of MITC for this method averages 50%. Using a different solvent may help improve average recovery, but would necessitate using an additional cartridge for field sampling." (i.e., if sampling for 1,3- dichloropropene by cartridge as well)

Due to the low recovery, the concentrations of MITC in sampled air may be underestimated using this method.

*MIC*: The spike results for MIC are listed in Tables 17 through 22. The laboratory and trip spike results for 8/13/01 ('spike 3' and 'trip spike') were both high due to interference and were not included in the average percent recovery listed above. The field spike, ARBM19-FS log # 292, was broken on receipt in the laboratory.

The laboratory report states (Page 19 & 22 of a separate volume of Appendices to this report):

"The MIC analysis was still in the development stage and staff observed shifting of retention time and subsequent interferences. This resulted in inaccurate area determination for the MIC recovery." (*The laboratory spiking solution results ranged from 34% to 224%.*)

“The field, trip, and laboratory spike recoveries are all high for the MIC. This is due to the narrow window for the detection of the derivatized MIC and the presence of interfering peaks.”

Due to the presence of interfering peaks, the true concentrations of MIC in sampled air may be different from the measured values. For this monitoring study, all the samples have results below EQL. Therefore, the interference should have minimal impact on the reported results.

### **VIII. Method Development**

Refer to Appendix II for discussion and results of method development studies.

#### **A. Collection and Extraction Efficiency**

The percent recoveries for DCP, based on historical data, ranged from 82 to 110% with a mean of 92% and a relative standard deviation of 12%. The recoveries for chloropicrin averaged 85%. The recoveries for MITC ranged from 61 to 68%. The recoveries for MIC averaged 69%.

#### **B. Storage Stability**

The storage stability study was completed for chloropicrin. The results, with recoveries from 89% to 114%, show that chloropicrin is stable for at least 4 weeks on XAD-4 cartridge when stored in the freezer. Storage stability studies were previously done with 1,3-dichloropropene and MITC and not repeated for this project. No MIC stability studies were completed. The SOP, Page 62 of Appendix II, indicates that samples should be analyzed within four days of sample receipt. The laboratory report, Page 19 of Appendix II, indicates that all samples were extracted and analyzed within seven days of receipt, within the holding time for all target analytes.

#### **C. Method Detection Limit (MDL)**

MDL studies were completed for all four compounds. The MDLs were 3 ng/sample, 3.96 ng/sample, 0.12 ug/sample, and 0.009 ug /sample for 1,3-dichloropropene (per isomer), chloropicrin, MITC and MIC, respectively.

#### **D. Breakthrough**

A breakthrough study was completed for chloropicrin. Results showed that flow rate is a critical factor in the field sampling (Page 18 of a separate volume of Appendices to this report). No chloropicrin was detected (<MDL) in the secondary bed if sampling flow rate was set at 0.1 slpm. No breakthrough analysis was done for 1,3-dichloropropene. The breakthrough was checked for MITC. 15 ug of MITC was spiked to the primary bed of a charcoal tube. Then it was sampled for 24 hours with a flow rate of 3 slpm. No MITC was detected in the secondary bed. A breakthrough study was not completed for MIC. But, work on MIC to optimize field sampling and minimize interference from the derivatizing agent indicates that two cartridges placed in tandem were needed to retain MIC (Page 19 of a separate volume of Appendices to this report).

**Table 2. Chloropicrin Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	TCNM		
							(ng/sample)	(ng/m <sup>3</sup> )	*(pptv)
1	ARBL1	06/30/01 0648	07/01/01 0646	1438	24.0	0.13	<MDL	<MDL	<MDL
2	CRSL1	06/30/01 0751	07/01/01 0835	1484	24.7	0.13	<MDL	<MDL	<MDL
3	MVSL1	06/30/01 0855	07/01/01 0955	1500	25.0	0.13	<MDL	<MDL	<MDL
4	VSDL1	06/30/01 1001	07/01/01 1035	1474	24.6	0.13	<MDL	<MDL	<MDL
5	ARVL1	06/30/01 1037	07/01/01 1116	1479	24.7	0.13	<MDL	<MDL	<MDL
6	METL1	06/30/01 1137	07/01/01 1205	1468	24.5	0.13	<MDL	<MDL	<MDL
7	ARBL2	07/01/01 0651	07/02/01 0631	1420	23.7	0.13	<MDL	<MDL	<MDL
8	CRSL2	07/01/01 0842	07/02/01 0755	1393	23.2	0.13	<MDL	<MDL	<MDL
9	MVSL2	07/01/01 1010	07/02/01 0917	1387	23.1	0.12	<MDL	<MDL	<MDL
10	VSDL2	07/01/01 1040	07/02/01 1021	1421	23.7	0.13	<MDL	<MDL	<MDL
11	ARVL2	07/01/01 1120	07/02/01 1121	1441	24.0	0.13	<MDL	<MDL	<MDL
12	METL2	07/01/01 1209	07/02/01 1229	1460	24.3	0.13	<MDL	<MDL	<MDL
13	ARBL3	07/02/01 0636	07/03/01 0649	1453	24.2	0.13	<MDL	<MDL	<MDL
14	ARBL3-C	07/02/01 0653	07/03/01 0706	1453	24.2	0.13	<MDL	<MDL	<MDL
15	CRSL3	07/02/01 0800	07/03/01 0807	1447	24.1	0.13	<MDL	<MDL	<MDL
16	CRSL3-C	07/02/01 0814	07/03/01 0825	1451	24.2	0.13	<MDL	<MDL	<MDL
17	MVSL3	07/02/01 0922	07/03/01 0923	1441	24.0	0.13	<MDL	<MDL	<MDL
18	MVSL3-C	07/02/01 0942	07/03/01 0935	1433	23.9	0.12	<MDL	<MDL	<MDL
19	VSDL3	07/02/01 1026	07/03/01 1010	1424	23.7	0.13	<MDL	<MDL	<MDL
20	VSDL3-C	07/02/01 1043	07/03/01 1023	1420	23.7	0.13	<MDL	<MDL	<MDL
21	ARVL3	07/02/01 1126	07/03/01 1053	1407	23.4	0.13	<MDL	<MDL	<MDL
22	ARVL3-C	07/02/01 1141	07/03/01 1104	1403	23.4	0.13	<MDL	<MDL	<MDL
23	METL3	07/02/01 1232	07/03/01 1147	1395	23.3	0.13	<MDL	<MDL	<MDL
24	METL3-C	07/02/01 1241	07/03/01 1200	1399	23.3	0.13	<MDL	<MDL	<MDL
26	ARBL4	07/06/01 0656	07/07/01 0634	1418	23.6	0.13	<MDL	<MDL	<MDL
28	CRSL4	07/06/01 0809	07/07/01 0813	1444	24.1	0.13	<MDL	<MDL	<MDL
29	MVSL4	07/06/01 0925	07/07/01 0942	1457	24.3	0.13	<MDL	<MDL	<MDL
30	VSDL4	07/06/01 1002	07/07/01 1026	1464	24.4	0.13	<MDL	<MDL	<MDL
31	ARVL4	07/06/01 1046	07/07/01 1106	1460	24.3	0.13	<MDL	<MDL	<MDL
32	METL4	07/06/01 1143	07/07/01 1208	1465	24.4	0.13	<MDL	<MDL	<MDL
33	ARBL5	07/07/01 0638	07/08/01 0624	1426	23.8	0.13	<MDL	<MDL	<MDL
34	ARBL5-C	07/07/01 0704	07/08/01 0643	1419	23.7	0.13	<MDL	<MDL	<MDL
35	CRSL5	07/07/01 0816	07/08/01 0733	1397	23.3	0.13	<MDL	<MDL	<MDL
36	CRSL5-C	07/07/01 0831	07/08/01 0749	1398	23.3	0.13	<MDL	<MDL	<MDL
37	MVSL5	07/07/01 0946	07/08/01 0854	1388	23.1	0.12	<MDL	<MDL	<MDL
38	MVSL5-C	07/07/01 0957	07/08/01 0918	1401	23.3	0.13	<MDL	<MDL	<MDL

MDL=3.96 ng/sample for TCNM

DET=Value was below the EQL of 19.8 ng/sample but  $\geq$ MDL

\*pptv at 1 atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA=Not applicable

**Table 2. Chloropicrin Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	TCNM		
							(ng/sample)	(ng/m <sup>3</sup> )	*(pptv)
39	VSDL5	07/07/01 1030	07/08/01 0956	1406	23.4	0.13	<MDL	<MDL	<MDL
40	VSDL5-C	07/07/01 1034	07/08/01 1018	1424	23.7	0.13	<MDL	<MDL	<MDL
41	ARVL5	07/07/01 1110	07/08/01 1052	1422	23.7	0.13	<MDL	<MDL	<MDL
42	ARVL5-C	07/07/01 1119	07/08/01 1108	1429	23.8	0.13	<MDL	<MDL	<MDL
43	METL5	07/07/01 1222	07/08/01 2356	2134	35.6	0.19	<MDL	<MDL	<MDL
44	METL5-C	07/07/01 1234	07/08/01 1211	1417	23.6	0.13	<MDL	<MDL	<MDL
47	ARBL6	07/08/01 0627	07/09/01 0615	1428	23.8	0.13	<MDL	<MDL	<MDL
48	CRSL6	07/08/01 0738	07/09/01 0706	1408	23.5	0.13	<MDL	<MDL	<MDL
49	MVSL6	07/08/01 0900	07/09/01 0906	1446	24.1	0.13	<MDL	<MDL	<MDL
50	VSDL6	07/08/01 1000	07/09/01 0900	1380	23.0	0.12	<MDL	<MDL	<MDL
51	ARVL6	07/08/01 1055	07/09/01 0956	1381	23.0	0.12	<MDL	<MDL	<MDL
52	METL6	07/08/01 1158	07/09/01 1059	1381	23.0	0.12	<MDL	<MDL	<MDL
53	ARBL7	07/13/01 0643	07/14/01 0602	1399	23.3	0.13	<MDL	<MDL	<MDL
55	CRSL7	07/13/01 0755	07/14/01 0709	1394	23.2	0.13	<MDL	<MDL	<MDL
56	MVSL7	07/13/01 0856	07/14/01 0820	1404	23.4	0.13	<MDL	<MDL	<MDL
57	VSDL7	07/13/01 0943	07/14/01 0905	1402	23.4	0.13	<MDL	<MDL	<MDL
58	ARVL7	07/13/01 1031	07/14/01 0946	1395	23.3	0.12	<MDL	<MDL	<MDL
59	METL7	07/13/01 1211	07/14/01 1114	1383	23.0	0.12	<MDL	<MDL	<MDL
60	ARBL8	07/14/01 0612	07/15/01 0610	1438	24.0	0.13	<MDL	<MDL	<MDL
61	ARBL8-C	07/14/01 0622	07/15/01 0622	1440	24.0	0.13	<MDL	<MDL	<MDL
62	CRSL8	07/14/01 0715	07/15/01 0714	1439	24.0	0.13	<MDL	<MDL	<MDL
63	CRSL8-C	07/14/01 0724	07/15/01 0731	1447	24.1	0.13	<MDL	<MDL	<MDL
64	MVSL8	07/14/01 0825	07/15/01 0831	1446	24.1	0.13	<MDL	<MDL	<MDL
65	MVSL8-C	07/14/01 0835	07/15/01 0846	1451	24.2	0.13	<MDL	<MDL	<MDL
66	VSDL8	07/14/01 0910	07/15/01 0923	1453	24.2	0.13	<MDL	<MDL	<MDL
67	VSD8-C	07/14/01 0916	07/15/01 0937	1461	24.3	0.13	<MDL	<MDL	<MDL
68	ARVL8	07/14/01 0954	07/15/01 1010	1456	24.3	0.13	<MDL	<MDL	<MDL
69	ARVL8-C	07/14/01 1001	07/15/01 1019	1458	24.3	0.13	<MDL	<MDL	<MDL
70	METL8	07/14/01 1122	07/15/01 1106	1424	23.7	0.13	<MDL	<MDL	<MDL
71	METL8-C	07/14/01 1130	07/15/01 1126	1436	23.9	0.13	<MDL	<MDL	<MDL
72	ARBL9	07/15/01 0631	07/16/01 0620	1429	23.8	0.13	<MDL	<MDL	<MDL
73	CRSL9	07/15/01 0738	07/16/01 0722	1424	23.7	0.13	<MDL	<MDL	<MDL
74	MVSL9	07/15/01 0854	07/16/01 0829	1415	23.6	Inv	NA	NA	NA
75	VSDL9	07/15/01 0943	07/16/01 0911	1408	23.5	0.13	<MDL	<MDL	<MDL
76	ARVL9	07/15/01 1025	07/16/01 0949	1404	23.4	0.13	<MDL	<MDL	<MDL
77	METL9	07/15/01 1134	07/16/01 1043	1389	23.2	0.13	<MDL	<MDL	<MDL

MDL=3.96 ng/sample for TCNM

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

\*pptv at 1 atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA=Not applicable

**Table 2. Chloropicrin Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	TCNM		
							(ng/sample)	(ng/m <sup>3</sup> )	*(pptv)
78	ARBL10	07/16/01 0631	07/17/01 0631	1440	24.0	0.13	<MDL	<MDL	<MDL
79	CRSL10	07/16/01 0732	07/17/01 0720	1428	23.8	0.13	<MDL	<MDL	<MDL
80	MVSL10	07/16/01 0839	07/17/01 0823	1424	23.7	0.13	<MDL	<MDL	<MDL
81	VSDL10	07/16/01 0919	07/17/01 0852	1413	23.5	0.13	<MDL	<MDL	<MDL
82	ARVL10	07/16/01 0959	07/17/01 0924	1405	23.4	0.13	<MDL	<MDL	<MDL
83	METL10	07/16/01 1057	07/17/01 1001	1384	23.1	0.12	<MDL	<MDL	<MDL
84	ARBL11	07/21/01 0627	07/22/01 0626	1439	24.0	0.13	<MDL	<MDL	<MDL
86	CRSL11	07/21/01 0729	07/22/01 0719	1430	23.8	0.13	<MDL	<MDL	<MDL
87	MVSL11	07/21/01 0821	07/22/01 0825	1444	24.1	0.13	<MDL	<MDL	<MDL
88	VSDL11	07/21/01 0848	07/22/01 0909	1461	24.3	0.13	<MDL	<MDL	<MDL
89	ARVL11	07/21/01 0916	07/22/01 0942	1466	24.4	0.13	<MDL	<MDL	<MDL
90	METL11	07/21/01 1006	07/22/01 1033	1467	24.5	0.13	<MDL	<MDL	<MDL
93	ARBL12	07/22/01 0620	07/23/01 0610	1430	23.8	0.13	<MDL	<MDL	<MDL
94	CRSL12	07/22/01 0723	07/23/01 0713	1430	23.8	0.13	<MDL	<MDL	<MDL
95	MVSL12	07/22/01 0829	07/23/01 0822	1433	23.9	0.13	<MDL	<MDL	<MDL
96	VSDL12	07/22/01 0913	07/23/01 0856	1423	23.7	0.13	<MDL	<MDL	<MDL
97	ARVL12	07/22/01 0945	07/23/01 0935	1430	23.8	0.13	<MDL	<MDL	<MDL
98	METL12	07/22/01 1037	07/23/01 1027	1430	23.8	0.13	<MDL	<MDL	<MDL
99	ARBL13	07/23/01 0618	07/24/01 0614	1436	23.9	0.13	<MDL	<MDL	<MDL
100	ARBL13-C	07/23/01 0625	07/24/01 0624	1439	24.0	0.13	<MDL	<MDL	<MDL
101	CRSL13	07/23/01 0724	07/24/01 0714	1430	23.8	0.13	<MDL	<MDL	<MDL
102	CRSL13C	07/23/01 0731	07/24/01 0726	1435	23.9	0.13	<MDL	<MDL	<MDL
103	MVSL13	07/23/01 0834	07/24/01 0827	1433	23.9	0.13	<MDL	<MDL	<MDL
104	MVSL13-C	07/23/01 0838	07/24/01 0839	1441	24.0	0.13	<MDL	<MDL	<MDL
105	VSDL13	07/23/01 0911	07/24/01 0905	1434	23.9	0.13	<MDL	<MDL	<MDL
106	VSDL13-C	07/23/01 0914	07/24/01 0913	1439	24.0	0.13	<MDL	<MDL	<MDL
107	ARVL13	07/23/01 0946	07/24/01 0941	1435	23.9	0.13	<MDL	<MDL	<MDL
108	ARVL13-C	07/23/01 0952	07/24/01 0953	1441	24.0	0.13	<MDL	<MDL	<MDL
109	METL13	07/23/01 1036	07/24/01 1033	1437	24.0	0.13	<MDL	<MDL	<MDL
110	METL13-C	07/23/01 1042	07/24/01 1045	1443	24.0	0.13	<MDL	<MDL	<MDL
111	ARBL14	07/24/01 0619	07/25/01 0622	1443	24.0	0.13	<MDL	<MDL	<MDL
112	CRSL14	07/24/01 0721	07/25/01 0659	1418	23.6	0.13	<MDL	<MDL	<MDL
113	MVSL14	07/24/01 0831	07/25/01 0750	1399	23.3	0.13	<MDL	<MDL	<MDL
114	VSDL14	07/24/01 0907	07/25/01 0828	1401	23.3	0.13	<MDL	<MDL	<MDL
115	ARVL14	07/24/01 0944	07/25/01 0848	1384	23.1	0.12	<MDL	<MDL	<MDL
116	METL14	07/24/01 1040	07/25/01 0940	1380	23.0	0.12	<MDL	<MDL	<MDL

MDL=3.96 ng/sample for TCNM

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

\*pptv at 1 atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA=Not applicable

**Table 2. Chloropicrin Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	TCNM		
							(ng/sample)	(ng/m <sup>3</sup> )	*(pptv)
117	ARBL15	07/29/01 0703	07/30/01 0619	1396	23.3	0.12	<MDL	<MDL	<MDL
118	CRSL15	07/29/01 0752	07/30/01 0729	1417	23.6	0.13	<MDL	<MDL	<MDL
119	MVSL15	07/29/01 0852	07/30/01 0839	1427	23.8	0.13	3.37E+01	2.6E+02	3.9E+01
120	VSDL15	07/29/01 0931	07/30/01 0921	1430	23.8	0.13	9.60E+01	7.5E+02	1.1E+02
121	ARVL15	07/29/01 1007	07/30/01 0958	1431	23.9	0.13	DET	DET	DET
122	METL15	07/29/01 1104	07/30/01 1058	1434	23.9	0.13	<MDL	<MDL	<MDL
124	ARBL16	07/30/01 0627	07/31/01 0610	1423	23.7	0.13	<MDL	<MDL	<MDL
125	ARBL16-C	07/30/01 0632	07/31/01 0622	1430	23.8	0.13	<MDL	<MDL	<MDL
126	CRSL16	07/30/01 0737	07/31/01 0717	1420	23.7	0.13	<MDL	<MDL	<MDL
127	CRSL16-C	07/30/01 0745	07/31/01 0726	1421	23.7	0.13	<MDL	<MDL	<MDL
128	MVSL16	07/30/01 0850	07/31/01 0835	1425	23.8	0.13	<MDL	<MDL	<MDL
129	MVSL16-C	07/30/01 0854	07/31/01 0844	1430	23.8	0.13	<MDL	<MDL	<MDL
130	VSDL16	07/30/01 0928	07/31/01 0923	1435	23.9	0.13	<MDL	<MDL	<MDL
131	VSDL16-C	07/30/01 0933	07/31/01 0934	1441	24.0	0.13	<MDL	<MDL	<MDL
132	ARVL16	07/30/01 1008	07/31/01 1004	1436	23.9	0.13	<MDL	<MDL	<MDL
133	ARVL16-C	07/30/01 1016	07/31/01 1015	1439	24.0	0.13	<MDL	<MDL	<MDL
134	METL16	07/30/01 1106	07/31/01 1103	1437	24.0	0.13	<MDL	<MDL	<MDL
135	METL16-C	07/30/01 1113	07/31/01 1109	1436	23.9	0.13	<MDL	<MDL	<MDL
136	ARBL17	07/31/01 0631	08/01/01 0629	1438	24.0	0.12	<MDL	<MDL	<MDL
137	CRSL17	07/31/01 0732	08/01/01 0724	1432	23.9	0.13	<MDL	<MDL	<MDL
138	MVSL17	07/31/01 0850	08/01/01 0826	1416	23.6	0.13	<MDL	<MDL	<MDL
139	VSDL17	07/31/01 0939	08/01/01 0859	1400	23.3	0.13	DET	DET	DET
140	ARVL17	07/31/01 1021	08/01/01 0929	1388	23.1	0.12	<MDL	<MDL	<MDL
141	METL17	07/31/01 1112	08/01/01 1017	1385	23.1	0.12	<MDL	<MDL	<MDL
142	ARBL18	08/01/01 0636	08/02/01 0621	1425	23.7	Inv	NA	NA	NA
143	CRSL18	08/01/01 0733	08/02/01 0709	1416	23.6	0.12	<MDL	<MDL	<MDL
144	MVSL18	08/01/01 0832	08/02/01 0805	1413	23.5	0.13	<MDL	<MDL	<MDL
145	VSDL18	08/01/01 0907	08/02/01 0832	1405	23.4	0.13	<MDL	<MDL	<MDL
146	ARVL18	08/01/01 0936	08/02/01 0855	1399	23.3	0.13	<MDL	<MDL	<MDL
147	METL18	08/01/01 1026	08/02/01 0932	1386	23.1	0.12	<MDL	<MDL	<MDL
148	ARBL19	08/06/01 0620	08/07/01 0619	1439	24.0	Inv	NA	NA	NA
150	CRSL19	08/06/01 0719	08/07/01 0727	1448	24.1	0.13	<MDL	<MDL	<MDL
151	MVSL19	08/06/01 0819	08/07/01 0827	1448	24.1	0.13	<MDL	<MDL	<MDL
152	VSDL19	08/06/01 0846	08/07/01 0902	1456	24.3	0.13	<MDL	<MDL	<MDL
153	ARVL19	08/06/01 0913	08/07/01 0935	1462	24.4	0.13	<MDL	<MDL	<MDL
154	METL19	08/06/01 1001	08/07/01 1025	1464	24.4	0.13	<MDL	<MDL	<MDL

MDL=3.96 ng/sample for TCNM

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\*pptv at 1 atm and 25°C

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**Table 2. Chloropicrin Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	TCNM		
							(ng/sample)	(ng/m <sup>3</sup> )	*(pptv)
155	ARBL20	08/07/01 0623	08/08/01 0616	1433	23.9	0.13	<MDL	<MDL	<MDL
156	ARBL20-C	08/07/01 0638	08/08/01 0631	1433	23.9	0.13	<MDL	<MDL	<MDL
157	CRSL20	08/07/01 0733	08/08/01 0715	1422	23.7	0.13	<MDL	<MDL	<MDL
158	CRSL20-C	08/07/01 0736	08/08/01 0731	1435	23.9	0.13	<MDL	<MDL	<MDL
159	MVSL20	08/07/01 0834	08/08/01 0822	1428	23.8	0.13	<MDL	<MDL	<MDL
160	MVSL20-C	08/07/01 0838	08/08/01 0837	1439	24.0	0.13	<MDL	<MDL	<MDL
161	VSDL20	08/07/01 0907	08/08/01 0900	1433	23.9	0.13	<MDL	<MDL	<MDL
162	VSDL20-C	08/07/01 0909	08/08/01 0900	1431	23.9	0.13	<MDL	<MDL	<MDL
163	ARVL20	08/07/01 0940	08/08/01 0937	1437	23.9	0.13	<MDL	<MDL	<MDL
164	ARVL20-C	08/07/01 0941	08/08/01 0945	1444	24.1	0.13	<MDL	<MDL	<MDL
165	METL20	08/07/01 1027	08/08/01 1027	1440	24.0	0.13	<MDL	<MDL	<MDL
166	METL20-C	08/07/01 1029	08/08/01 1037	1448	24.1	0.13	<MDL	<MDL	<MDL
168	ARBL21	08/08/01 0622	08/09/01 0626	1444	24.1	0.13	<MDL	<MDL	<MDL
169	CRSL21	08/08/01 0720	08/09/01 0720	1440	24.0	0.13	<MDL	<MDL	<MDL
170	MVSL21	08/08/01 0828	08/09/01 0830	1442	24.0	0.13	<MDL	<MDL	<MDL
171	VSDL21	08/08/01 0904	08/09/01 0859	1435	23.9	0.13	<MDL	<MDL	<MDL
172	ARVL21	08/08/01 0941	08/09/01 0935	1434	23.9	0.13	<MDL	<MDL	<MDL
173	METL21	08/08/01 1030	08/09/01 1020	1430	23.8	0.13	<MDL	<MDL	<MDL
174	ARBL22	08/09/01 0628	08/10/01 0622	1434	23.9	0.13	<MDL	<MDL	<MDL
175	CRSL22	08/09/01 0722	08/10/01 0703	1421	23.7	0.13	<MDL	<MDL	<MDL
176	MVSL22	08/09/01 0832	08/10/01 0757	1405	23.4	0.13	<MDL	<MDL	<MDL
177	VSDL22	08/09/01 0901	08/10/01 0814	1393	23.2	0.13	<MDL	<MDL	<MDL
178	ARVL22	08/09/01 0939	08/10/01 0842	1383	23.1	0.12	<MDL	<MDL	<MDL
179	METL22	08/09/01 1022	08/10/01 0923	1381	23.0	0.12	<MDL	<MDL	<MDL
180	ARBL23	08/14/01 0701	08/15/01 0627	1406	23.4	0.13	<MDL	<MDL	<MDL
181	CRSL23	08/14/01 0753	08/15/01 0724	1411	23.5	0.13	<MDL	<MDL	<MDL
182	MVSL23	08/14/01 0849	08/15/01 0838	1429	23.8	0.13	<MDL	<MDL	<MDL
183	VSDL23	08/14/01 0919	08/15/01 0920	1441	24.0	0.13	<MDL	<MDL	<MDL
184	ARVL23	08/14/01 0947	08/15/01 0957	1450	24.2	0.13	<MDL	<MDL	<MDL
185	METL23	08/14/01 1030	08/15/01 1052	1462	24.4	0.13	<MDL	<MDL	<MDL
187	ARBL24	08/15/01 0636	08/16/01 0626	1430	23.8	0.12	<MDL	<MDL	<MDL
188	ARBL24-C	08/15/01 0642	08/16/01 0633	1431	23.9	0.13	<MDL	<MDL	<MDL
189	CRSL24	08/15/01 0739	08/16/01 0727	1428	23.8	0.13	5.16E+01	4.0E+02	6.0E+01
190	CRSL24-C	08/15/01 0746	08/16/01 0735	1429	23.8	0.13	5.84E+01	4.5E+02	6.8E+01
191	MVSL24	08/15/01 0846	08/16/01 0836	1430	23.8	0.13	<MDL	<MDL	<MDL
192	MVSL24-C	08/15/01 0852	08/16/01 0842	1430	23.8	0.13	<MDL	<MDL	<MDL

MDL=3.96 ng/sample for TCNM

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\*pptv at 1 atm and 25°C

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Table 2. Chloropicrin Ambient Monitoring Results for Kern County 2001

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	TCNM		
							(ng/sample)	(ng/m <sup>3</sup> )	*(pptv)
193	VSDL24	08/15/01 0928	08/16/01 0918	1430	23.8	0.13	<MDL	<MDL	<MDL
194	VSDL24-C	08/15/01 0934	08/16/01 0926	1432	23.9	0.13	<MDL	<MDL	<MDL
195	ARVL24	08/15/01 1005	08/16/01 0955	1430	23.8	0.13	<MDL	<MDL	<MDL
196	ARVL24-C	08/15/01 1011	08/16/01 1002	1431	23.9	0.13	<MDL	<MDL	<MDL
197	METL24	08/15/01 1058	08/16/01 1049	1431	23.9	0.13	<MDL	<MDL	<MDL
198	METL24-C	08/15/01 1104	08/16/01 1056	1432	23.9	0.13	<MDL	<MDL	<MDL
199	ARBL25	08/16/01 0640	08/17/01 0634	1434	23.9	0.13	<MDL	<MDL	<MDL
200	CRSL25	08/16/01 0741	08/17/01 0730	1429	23.8	0.13	2.78E+01	2.2E+02	3.2E+01
201	MVSL25	08/16/01 0852	08/17/01 0828	1416	23.6	0.13	<MDL	<MDL	<MDL
202	VSDL25	08/16/01 0931	08/17/01 0900	1409	23.5	0.14	<MDL	<MDL	<MDL
203	ARVL25	08/16/01 1007	08/17/01 0931	1404	23.4	0.13	<MDL	<MDL	<MDL
204	METL25	08/16/01 1102	08/17/01 1016	1394	23.2	0.13	<MDL	<MDL	<MDL
205	ARBL26	08/17/01 0645	08/18/01 0632	1427	23.8	0.13	<MDL	<MDL	<MDL
206	CRSL26	08/17/01 0738	08/18/01 0718	1420	23.7	Inv	NA	NA	NA
207	MVSL26	08/17/01 0834	08/18/01 0807	1413	23.5	0.13	<MDL	<MDL	<MDL
208	VSDL26	08/17/01 0908	08/18/01 0829	1401	23.3	0.13	<MDL	<MDL	<MDL
209	ARVL26	08/17/01 0938	08/18/01 0853	1395	23.3	0.13	<MDL	<MDL	<MDL
210	METL26	08/17/01 1023	08/18/01 0938	1395	23.3	0.13	<MDL	<MDL	<MDL
211	ARBL27	08/22/01 0632	08/23/01 0605	1413	23.5	0.11	<MDL	<MDL	<MDL
212	CRSL27	08/22/01 0717	08/23/01 0718	1441	24.0	0.13	<MDL	<MDL	<MDL
213	MVSL27	08/22/01 0819	08/23/01 0824	1445	24.1	0.12	<MDL	<MDL	<MDL
214	VSDL27	08/22/01 0842	08/23/01 0904	1462	24.4	0.13	<MDL	<MDL	<MDL
215	ARVL27	08/22/01 0908	08/23/01 0942	1474	24.6	0.13	<MDL	<MDL	<MDL
216	METL27	08/22/01 0953	08/23/01 1036	1483	24.7	0.13	<MDL	<MDL	<MDL
218	ARBL28	08/23/01 0623	08/24/01 0630	1447	24.1	0.12	<MDL	<MDL	<MDL
219	CRSL28	08/23/01 0723	08/24/01 0723	1440	24.0	0.13	<MDL	<MDL	<MDL
220	MVSL28	08/23/01 0828	08/24/01 0825	1437	24.0	0.12	<MDL	<MDL	<MDL
221	VSDL28	08/23/01 0910	08/24/01 0858	1428	23.8	0.13	<MDL	<MDL	<MDL
222	ARVL28	08/23/01 0951	08/24/01 0935	1424	23.7	0.13	<MDL	<MDL	<MDL
223	METL28	08/23/01 1050	08/24/01 1030	1420	23.7	0.13	<MDL	<MDL	<MDL
226	ARBL29	08/24/01 0624	08/25/01 0619	1435	23.9	0.13	<MDL	<MDL	<MDL
227	ARBL29-C	08/24/01 0636	08/25/01 0629	1433	23.9	0.13	<MDL	<MDL	<MDL
228	CRSL29	08/24/01 0725	08/25/01 0710	1425	23.7	0.13	<MDL	<MDL	<MDL
229	CRSL29-C	08/24/01 0732	08/25/01 0723	1431	23.9	0.13	<MDL	<MDL	<MDL
230	MVSL29	08/24/01 0828	08/25/01 0820	1432	23.9	0.13	<MDL	<MDL	<MDL
231	MVSL29-C	08/24/01 0830	08/25/01 0836	1446	24.1	0.13	<MDL	<MDL	<MDL

MDL=3.96 ng/sample for TCNM

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\*pptv at 1 atm and 25°C

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**Table 2. Chloropicrin Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	TCNM		
							(ng/sample)	(ng/m <sup>3</sup> )	*(pptv)
232	VSDL29	08/24/01 0900	08/25/01 0900	1440	24.0	0.13	<MDL	<MDL	<MDL
233	VSDL29-C	08/24/01 0903	08/25/01 0910	1447	24.1	0.13	<MDL	<MDL	<MDL
234	ARVL29	08/24/01 0936	08/25/01 0935	1439	24.0	0.13	<MDL	<MDL	<MDL
235	ARVL29-C	08/24/01 0939	08/25/01 0940	1441	24.0	0.13	<MDL	<MDL	<MDL
236	METL29	08/24/01 1036	08/25/01 1029	1433	23.9	0.13	<MDL	<MDL	<MDL
237	METL29-C	08/24/01 1039	08/25/01 1040	1441	24.0	0.13	<MDL	<MDL	<MDL
238	ARBL30	08/24/01 0620	08/25/01 0625	1445	24.1	0.13	<MDL	<MDL	<MDL
239	CRSL30	08/25/01 0713	08/26/01 0710	1437	24.0	0.13	<MDL	<MDL	<MDL
240	MVSL30	08/25/01 0823	08/26/01 0800	1417	23.6	0.13	<MDL	<MDL	<MDL
241	VSDL30	08/25/01 0902	08/26/01 0825	1403	23.4	0.13	<MDL	<MDL	<MDL
242	ARVL30	08/25/01 0936	08/26/01 0848	1392	23.2	0.13	<MDL	<MDL	<MDL
243	METL30	08/25/01 1032	08/26/01 0933	1381	23.0	0.12	<MDL	<MDL	<MDL
244	ARBL31	08/28/01 0619	08/29/01 0657	1478	24.6	0.13	<MDL	<MDL	<MDL
245	CRSL31	08/28/01 0710	08/29/01 0743	1473	24.6	0.13	<MDL	<MDL	<MDL
246	MVSL31	08/28/01 0804	08/29/01 0843	1479	24.7	0.13	<MDL	<MDL	<MDL
247	VSDL31	08/28/01 0835	08/29/01 0913	1478	24.6	0.13	<MDL	<MDL	<MDL
248	ARVL31	08/28/01 0917	08/29/01 0943	1466	24.4	0.13	<MDL	<MDL	<MDL
249	METL31	08/28/01 0958	08/29/01 1034	1476	24.6	0.13	<MDL	<MDL	<MDL
250	ARBL32	08/29/01 0701	08/30/01 0646	1425	23.8	0.13	DET	DET	DET
251	CRSL32	08/29/01 0754	08/30/01 0740	1426	23.8	0.13	3.19E+01	2.5E+02	3.7E+01
252	MVSL32	08/29/01 0849	08/30/01 0838	1429	23.8	0.13	<MDL	<MDL	<MDL
253	VSDL32	08/29/01 0918	08/30/01 0912	1434	23.9	Inv	NA	NA	NA
254	ARVL32	08/29/01 0947	08/30/01 0940	1433	23.9	0.13	<MDL	<MDL	<MDL
255	METL32	08/29/01 1039	08/30/01 1022	1423	23.7	0.13	<MDL	<MDL	<MDL
257	ARBL33	08/30/01 0653	08/31/01 0624	1411	23.5	0.13	<MDL	<MDL	<MDL
258	CRSL33	08/30/01 0744	08/31/01 0711	1407	23.4	0.13	<MDL	<MDL	<MDL
259	MVSL33	08/30/01 0845	08/31/01 0807	1402	23.4	0.11	<MDL	<MDL	<MDL
260	VSDL33	08/30/01 0916	08/31/01 0843	1407	23.4	0.12	<MDL	<MDL	<MDL
261	ARVL33	08/30/01 0945	08/31/01 1014	1469	24.5	0.13	<MDL	<MDL	<MDL
262	METL33	08/30/01 1030	08/31/01 1029	1439	24.0	0.13	<MDL	<MDL	<MDL

MDL=3.96 ng/sample for TCNM

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

\*pptv at 1 atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA=Not applicable

**Table 3. Summary of Chloropicrin Results  
for Kern County 2001 (ng/m<sup>3</sup>)**

Start Date	ARB	ARV	CRS	MET	MVS	VSD
06/30/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/01/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/02/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/06/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/07/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/08/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/13/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/14/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/15/01	<MDL	<MDL	<MDL	<MDL	NA	<MDL
07/16/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/21/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/22/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/23/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/24/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/29/01	<MDL	DET	<MDL	<MDL	2.6E+02	7.5E+02
07/30/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/31/01	<MDL	<MDL	<MDL	<MDL	<MDL	DET
08/01/01	NA	<MDL	<MDL	<MDL	<MDL	<MDL
08/06/01	NA	<MDL	<MDL	<MDL	<MDL	<MDL
08/07/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/08/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/09/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/14/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/15/01	<MDL	<MDL	4.5E+02	<MDL	<MDL	<MDL
08/16/01	<MDL	<MDL	2.2E+02	<MDL	<MDL	<MDL
08/17/01	<MDL	<MDL	NA	<MDL	<MDL	<MDL
08/22/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/23/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/24/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/25/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/28/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/29/01	DET	<MDL	2.5E+02	<MDL	<MDL	NA
08/30/01	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
<b>Maximum</b>	<b>DET</b>	<b>DET</b>	<b>4.5E+02</b>	<b>&lt;MDL</b>	<b>2.6E+02</b>	<b>7.5E+02</b>
<b>Average</b>	<b>1.7E+01</b>	<b>1.7E+01</b>	<b>4.2E+01</b>	<b>1.5E+01</b>	<b>2.3E+01</b>	<b>4.0E+01</b>
<b># Valid Sample</b>	<b>31</b>	<b>33</b>	<b>32</b>	<b>33</b>	<b>32</b>	<b>32</b>
<b># &gt;EQL</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b># DET</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b># &lt;MDL</b>	<b>30</b>	<b>32</b>	<b>29</b>	<b>33</b>	<b>31</b>	<b>30</b>

Only the higher value of each collocated pair was listed in the table.

<MDL results were factored in as MDL/2= 15 ng/m<sup>3</sup>

DET results were factored in as (EQL+MDL)/2= 91 ng/m<sup>3</sup>

**Table 4. Chloropicrin Collocated Results  
for Kern County 2001**

Sample ID	Start Date	TCNM		
		(ng/m <sup>3</sup> )	Ave.	Rel % D
ARBL3	07/02/01	<MDL		
ARBL3-C	07/02/01	<MDL	<MDL	NA
CRSL3	07/02/01	<MDL		
CRSL3-C	07/02/01	<MDL	<MDL	NA
MVSL3	07/02/01	<MDL		
MVSL3-C	07/02/01	<MDL	<MDL	NA
VSDL3	07/02/01	<MDL		
VSDL3-C	07/02/01	<MDL	<MDL	NA
ARVL3	07/02/01	<MDL		
ARVL3-C	07/02/01	<MDL	<MDL	NA
METL3	07/02/01	<MDL		
METL3-C	07/02/01	<MDL	<MDL	NA
ARBL5	07/07/01	<MDL		
ARBL5-C	07/07/01	<MDL	<MDL	NA
CRSL5	07/07/01	<MDL		
CRSL5-C	07/07/01	<MDL	<MDL	NA
MVSL5	07/07/01	<MDL		
MVSL5-C	07/07/01	<MDL	<MDL	NA
VSDL5	07/07/01	<MDL		
VSDL5-C	07/07/01	<MDL	<MDL	NA
ARVL5	07/07/01	<MDL		
ARVL5-C	07/07/01	<MDL	<MDL	NA
METL5	07/07/01	<MDL		
METL5-C	07/07/01	<MDL	<MDL	NA
ARBL8	07/14/01	<MDL		
ARBL8-C	07/14/01	<MDL	<MDL	NA
CRSL8	07/14/01	<MDL		
CRSL8-C	07/14/01	<MDL	<MDL	NA
MVSL8	07/14/01	<MDL		
MVSL8-C	07/14/01	<MDL	<MDL	NA
VSDL8	07/14/01	<MDL		
VSDL8-C	07/14/01	<MDL	<MDL	NA
ARVL8	07/14/01	<MDL		
ARVL8-C	07/14/01	<MDL	<MDL	NA
METL8	07/14/01	<MDL		
METL8-C	07/14/01	<MDL	<MDL	NA
ARBL13	07/23/01	<MDL		
ARBL13-C	07/23/01	<MDL	<MDL	NA
CRSL13	07/23/01	<MDL		
CRSL13C	07/23/01	<MDL	<MDL	NA
MVSL13	07/23/01	<MDL		
MVSL13-C	07/23/01	<MDL	<MDL	NA
VSDL13	07/23/01	<MDL		
VSDL13-C	07/23/01	<MDL	<MDL	NA
ARVL13	07/23/01	<MDL		
ARVL13-C	07/23/01	<MDL	<MDL	NA
METL13	07/23/01	<MDL		
METL13-C	07/23/01	<MDL	<MDL	NA

Sample ID	Start Date	TCNM		
		(ng/m <sup>3</sup> )	Ave.	Rel % D
ARBL16	07/30/01	<MDL		
ARBL16-C	07/30/01	<MDL	<MDL	NA
CRSL16	07/30/01	<MDL		
CRSL16-C	07/30/01	<MDL	<MDL	NA
MVSL16	07/30/01	<MDL		
MVSL16-C	07/30/01	<MDL	<MDL	NA
VSDL16	07/30/01	<MDL		
VSDL16-C	07/30/01	<MDL	<MDL	NA
ARVL16	07/30/01	<MDL		
ARVL16-C	07/30/01	<MDL	<MDL	NA
METL16	07/30/01	<MDL		
METL16-C	07/30/01	<MDL	<MDL	NA
ARBL20	08/07/01	<MDL		
ARBL20-C	08/07/01	<MDL	<MDL	NA
CRSL20	08/07/01	<MDL		
CRSL20-C	08/07/01	<MDL	<MDL	NA
MVSL20	08/07/01	<MDL		
MVSL20-C	08/07/01	<MDL	<MDL	NA
VSDL20	08/07/01	<MDL		
VSDL20-C	08/07/01	<MDL	<MDL	NA
ARVL20	08/07/01	<MDL		
ARVL20-C	08/07/01	<MDL	<MDL	NA
METL20	08/07/01	<MDL		
METL20-C	08/07/01	<MDL	<MDL	NA
ARBL24	08/15/01	<MDL		
ARBL24-C	08/15/01	<MDL	<MDL	NA
CRSL24	08/15/01	4.0E+02		
CRSL24-C	08/15/01	4.5E+02	4.3E+02	12%
MVSL24	08/15/01	<MDL		
MVSL24-C	08/15/01	<MDL	<MDL	NA
VSDL24	08/15/01	<MDL		
VSDL24-C	08/15/01	<MDL	<MDL	NA
ARVL24	08/15/01	<MDL		
ARVL24-C	08/15/01	<MDL	<MDL	NA
METL24	08/15/01	<MDL		
METL24-C	08/15/01	<MDL	<MDL	NA
ARBL29	08/24/01	<MDL		
ARBL29-C	08/24/01	<MDL	<MDL	NA
CRSL29	08/24/01	<MDL		
CRSL29-C	08/24/01	<MDL	<MDL	NA
MVSL29	08/24/01	<MDL		
MVSL29-C	08/24/01	<MDL	<MDL	NA
VSDL29	08/24/01	<MDL		
VSDL29-C	08/24/01	<MDL	<MDL	NA
ARVL29	08/24/01	<MDL		
ARVL29-C	08/24/01	<MDL	<MDL	NA
METL29	08/24/01	<MDL		
METL29-C	08/24/01	<MDL	<MDL	NA

**Table 5. MITC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	MITC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
1	ARBT1	06/30/01 0655	07/01/01 0658	1443	24.0	3.61	DET	DET	DET
2	CRST1	06/30/01 0756	07/01/01 0846	1490	24.8	3.72	<MDL	<MDL	<MDL
3	MVST1	06/30/01 0858	07/01/01 1000	1502	25.0	3.75	1.71E+00	4.6E-01	1.5E+02
4	VSDT1	06/30/01 1007	07/01/01 1044	1477	24.6	3.69	DET	DET	DET
5	ARVT1	06/30/01 1041	07/01/01 1124	1483	24.7	3.71	5.19E+00	1.4E+00	4.7E+02
6	METT1	06/30/01 1141	07/01/01 1211	1470	24.5	3.68	<MDL	<MDL	<MDL
7	ARBT2	07/01/01 0702	07/02/01 0640	1418	23.6	3.55	DET	DET	DET
8	CRST2	07/01/01 0851	07/02/01 0802	1391	23.2	3.48	<MDL	<MDL	<MDL
9	MVST2	07/01/01 0959	07/02/01 0926	1407	23.4	3.52	2.67E+00	7.6E-01	2.5E+02
10	VSDT2	07/01/01 1047	07/02/01 1029	1422	23.7	3.55	DET	DET	DET
11	ARVT2	07/01/01 1126	07/02/01 1129	1443	24.0	3.61	8.58E+00	2.4E+00	8.0E+02
12	METT2	07/01/01 1214	07/02/01 1234	1460	24.3	3.65	<MDL	<MDL	<MDL
13	ARBT3	07/02/01 0644	07/03/01 0653	1449	24.2	3.62	2.04E+00	5.6E-01	1.9E+02
14	ARBT3-C	07/02/01 0657	07/03/01 0709	1452	24.2	3.63	1.98E+00	5.5E-01	1.8E+02
15	CRST3	07/02/01 0806	07/03/01 0812	1446	24.1	3.61	<MDL	<MDL	<MDL
16	CRST3-C	07/02/01 0816	07/03/01 0829	1453	24.2	3.63	<MDL	<MDL	<MDL
17	MVST3	07/02/01 0931	07/03/01 0926	1435	23.9	3.59	9.78E+00	2.7E+00	9.1E+02
18	MVST3-C	07/02/01 0947	07/03/01 0939	1432	23.9	3.58	7.68E+00	2.1E+00	7.2E+02
19	VSDT3	07/02/01 1033	07/03/01 1015	1422	23.7	3.56	2.20E+01	6.2E+00	2.1E+03
20	VSDT3-C	07/02/01 1047	07/03/01 1029	1422	23.7	3.55	2.12E+01	5.9E+00	2.0E+03
21	ARVT3	07/02/01 1132	07/03/01 1056	1404	23.4	3.51	9.09E+00	2.6E+00	8.7E+02
22	ARVT3-C	07/02/01 1143	07/03/01 1106	1403	23.4	3.51	8.82E+00	2.5E+00	8.4E+02
23	METT3	07/02/01 1237	07/03/01 1149	1392	23.2	3.48	<MDL	<MDL	<MDL
24	METT3-C	07/02/01 1244	07/03/01 1206	1402	23.4	Inv	NA	NA	NA
26	ARBT4	07/06/01 0702	07/07/01 0643	1421	23.7	3.55	4.53E+00	1.3E+00	4.3E+02
28	CRST4	07/06/01 0820	07/07/01 0819	1439	24.0	3.60	DET	DET	DET
29	MVST4	07/06/01 0930	07/07/01 0949	1459	24.3	3.65	1.94E+01	5.3E+00	1.8E+03
30	VSDT4	07/06/01 1007	07/07/01 1034	1467	24.5	3.67	4.08E+00	1.1E+00	3.7E+02
31	ARVT4	07/06/01 1054	07/07/01 1115	1461	24.3	3.65	4.29E+00	1.2E+00	3.9E+02
32	METT4	07/06/01 1147	07/07/01 1212	1465	24.4	3.66	DET	DET	DET
33	ARBT5	07/07/01 0646	07/08/01 0632	1426	23.8	3.56	DET	DET	DET
34	ARBT5-C	07/07/01 0711	07/08/01 0646	1415	23.6	3.54	DET	DET	DET
35	CRST5	07/07/01 0823	07/08/01 0737	1394	23.2	3.48	DET	DET	DET
36	CRST5-C	07/07/01 0836	07/08/01 0752	1396	23.3	3.49	DET	DET	DET
37	MVST5	07/07/01 0951	07/08/01 0904	1393	23.2	3.48	3.03E+00	8.7E-01	2.9E+02
38	MVST5-C	07/07/01 0958	07/08/01 0924	1406	23.4	3.52	3.00E+00	8.5E-01	2.9E+02

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but ≥ MDL

\*pptv at 1 atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA=Not applicable

**Table 5. MITC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	MITC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
39	VSDT5	07/07/01 1038	07/08/01 1002	1404	23.4	3.51	2.07E+00	5.9E-01	2.0E+02
40	VSDT5-C	07/07/01 1034	07/08/01 1020	1426	23.8	3.56	2.07E+00	5.8E-01	1.9E+02
41	ARVT5	07/07/01 1119	07/08/01 1058	1419	23.6	3.55	3.24E+00	9.1E-01	3.1E+02
42	ARVT5-C	07/07/01 1119	07/08/01 1112	1433	23.9	3.58	3.06E+00	8.5E-01	2.9E+02
43	METT5	07/07/01 1225	07/08/01 1201	1416	23.6	3.54	DET	DET	DET
44	METT5-C	07/07/01 1239	07/08/01 1214	1415	23.6	3.54	DET	DET	DET
47	ARBT6	07/08/01 0634	07/09/01 0617	1423	23.7	3.56	<MDL	<MDL	<MDL
48	CRST6	07/08/01 0740	07/09/01 0707	1407	23.4	3.52	<MDL	<MDL	<MDL
49	MVST6	07/08/01 0907	07/09/01 0910	1443	24.0	3.61	1.77E+00	4.9E-01	1.6E+02
50	VSDT6	07/08/01 1005	07/09/01 0906	1381	23.0	3.45	DET	DET	DET
51	ARVT6	07/08/01 1100	07/09/01 1001	1381	23.0	3.45	3.12E+00	9.0E-01	3.0E+02
52	METT6	07/08/01 1204	07/09/01 1105	1381	23.0	3.45	<MDL	<MDL	<MDL
53	ARBT7	07/13/01 0648	07/14/01 0606	1398	23.3	3.49	4.47E+00	1.3E+00	4.3E+02
55	CRST7	07/13/01 0759	07/14/01 0712	1393	23.2	3.48	DET	DET	DET
56	MVST7	07/13/01 0900	07/14/01 0821	1401	23.3	3.50	1.60E+01	4.6E+00	1.5E+03
57	VSDT7	07/13/01 0946	07/14/01 0908	1402	23.4	3.51	3.37E+01	9.6E+00	3.2E+03
58	ARVT7	07/13/01 1033	07/14/01 0949	1396	23.3	3.49	1.53E+01	4.4E+00	1.5E+03
59	METT7	07/13/01 1213	07/14/01 1117	1384	23.1	3.46	DET	DET	DET
60	ARBT8	07/14/01 0615	07/15/01 0615	1440	24.0	3.60	2.10E+00	5.8E-01	2.0E+02
61	ARBT8-C	07/14/01 0623	07/15/01 0624	1441	24.0	3.60	2.04E+00	5.7E-01	1.9E+02
62	CRST8	07/14/01 0716	07/15/01 0718	1442	24.0	3.61	DET	DET	DET
63	CRST8-C	07/14/01 0727	07/15/01 0733	1446	24.1	3.61	DET	DET	DET
64	MVST8	07/14/01 0828	07/15/01 0835	1447	24.1	3.62	1.71E+01	4.7E+00	1.6E+03
65	MVST8-C	07/14/01 0836	07/15/01 0847	1451	24.2	3.63	1.79E+01	4.9E+00	1.7E+03
66	VSDT8	07/14/01 0913	07/15/01 0927	1454	24.2	3.64	5.67E+00	1.6E+00	5.2E+02
67	VSDT8-C	07/14/01 0918	07/15/01 0938	1460	24.3	3.65	5.40E+00	1.5E+00	4.9E+02
68	ARVT8	07/14/01 0957	07/15/01 1014	1457	24.3	3.64	7.41E+00	2.0E+00	6.8E+02
69	ARVT8-C	07/14/01 1004	07/15/01 1022	1458	24.3	3.64	6.60E+00	1.8E+00	6.1E+02
70	METT8	07/14/01 1124	07/15/01 1114	1430	23.8	Inv	NA	NA	NA
71	METT8-C	07/14/01 1132	07/15/01 1128	1436	23.9	3.59	1.92E+00	5.3E-01	1.8E+02
72	ARBT9	07/15/01 0634	07/16/01 0623	1429	23.8	3.57	<MDL	<MDL	<MDL
73	CRST9	07/15/01 0740	07/16/01 0724	1424	23.7	3.56	<MDL	<MDL	<MDL
74	MVST9	07/15/01 0856	07/16/01 0832	1416	23.6	3.54	<MDL	<MDL	<MDL
75	VSDT9	07/15/01 0945	07/16/01 0914	1409	23.5	3.52	DET	DET	DET
76	ARVT9	07/15/01 1027	07/16/01 0952	1405	23.4	3.51	DET	DET	DET
77	METT9	07/15/01 1135	07/16/01 1047	1392	23.2	3.48	DET	DET	DET

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but ≥ MDL

\*pptv at 1 atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA=Not applicable

**Table 5. MITC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	MITC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
78	ARBT10	07/16/01 0633	07/17/01 0635	1442	24.0	3.60	<MDL	<MDL	<MDL
79	CRST10	07/16/01 0737	07/17/01 0723	1426	23.8	3.56	<MDL	<MDL	<MDL
80	MVST10	07/16/01 0841	07/17/01 0827	1426	23.8	3.56	DET	DET	DET
81	VSDT10	07/16/01 0922	07/17/01 0854	1412	23.5	3.53	DET	DET	DET
82	ARVT10	07/16/01 1002	07/17/01 0926	1404	23.4	3.51	4.92E+00	1.4E+00	4.7E+02
83	METT10	07/16/01 1059	07/17/01 1003	1384	23.1	3.46	DET	DET	DET
84	ARBT11	07/21/01 0630	07/22/01 0621	1431	23.8	3.58	DET	DET	DET
86	CRST11	07/21/01 0729	07/22/01 0724	1435	23.9	3.59	<MDL	<MDL	<MDL
87	MVST11	07/21/01 0825	07/22/01 0833	1448	24.1	3.62	3.93E+00	1.1E+00	3.6E+02
88	VSDT11	07/21/01 0852	07/22/01 0833	1421	23.7	3.55	8.40E+00	2.4E+00	7.9E+02
89	ARVT11	07/21/01 0921	07/22/01 0946	1465	24.4	3.66	2.28E+00	6.2E-01	2.1E+02
90	METT11	07/21/01 1009	07/22/01 1039	1470	24.5	3.67	DET	DET	DET
93	ARBT12	07/22/01 0624	07/23/01 0622	1438	24.0	3.59	DET	DET	DET
94	CRST12	07/22/01 0727	07/23/01 0727	1440	24.0	3.60	<MDL	<MDL	<MDL
95	MVST12	07/22/01 0835	07/23/01 0830	1435	23.9	3.59	6.09E+00	1.7E+00	5.7E+02
96	VSDT12	07/22/01 0916	07/23/01 0905	1429	23.8	3.57	5.97E+00	1.7E+00	5.6E+02
97	ARVT12	07/22/01 0949	07/23/01 0940	1431	23.9	3.58	1.06E+01	3.0E+00	9.9E+02
98	METT12	07/22/01 1041	07/23/01 1030	1429	23.8	3.57	DET	DET	DET
99	ARBT13	07/23/01 0625	07/24/01 0617	1432	23.9	3.58	1.92E+00	5.4E-01	1.8E+02
100	ARBT13-C	07/23/01 0625	07/24/01 0624	1439	24.0	3.60	1.98E+00	5.5E-01	1.8E+02
101	CRST13	07/23/01 0729	07/24/01 0717	1428	23.8	3.57	DET	DET	DET
102	CRST13-C	07/23/01 0731	07/24/01 0726	1435	23.9	3.59	DET	DET	DET
103	MVST13	07/23/01 0836	07/24/01 0832	1436	23.9	3.59	4.40E+01	1.2E+01	4.1E+03
104	MVST13-C	07/23/01 0838	07/24/01 0840	1442	24.0	3.60	3.89E+01	1.1E+01	3.6E+03
105	VSDT13	07/23/01 0910	07/24/01 0908	1438	24.0	3.60	9.36E+00	2.6E+00	8.7E+02
106	VSDT13-C	07/23/01 0914	07/24/01 0916	1442	24.0	3.60	8.82E+00	2.4E+00	8.2E+02
107	ARVT13	07/23/01 0949	07/24/01 0946	1437	24.0	3.59	3.45E+00	9.6E-01	3.2E+02
108	ARVT13-C	07/23/01 0951	07/24/01 0955	1444	24.1	3.61	3.45E+00	9.6E-01	3.2E+02
109	METT13	07/23/01 1038	07/24/01 1037	1439	24.0	3.60	DET	DET	DET
110	METT13-C	07/23/01 1042	07/24/01 1047	1445	24.1	3.61	DET	DET	DET
111	ARBT14	07/24/01 0621	07/25/01 0620	1439	24.0	3.60	DET	DET	DET
112	CRST14	07/24/01 0723	07/25/01 0701	1418	23.6	3.55	<MDL	<MDL	<MDL
113	MVST14	07/24/01 0834	07/25/01 0750	1396	23.3	3.49	7.80E+01	2.2E+01	7.5E+03
114	VSDT14	07/24/01 0910	07/25/01 0829	1399	23.3	3.50	2.01E+01	5.7E+00	1.9E+03
115	ARVT14	07/24/01 0945	07/25/01 0850	1385	23.1	3.46	5.76E+00	1.7E+00	5.6E+02
116	METT14	07/24/01 1040	07/25/01 0940	1380	23.0	3.45	DET	DET	DET

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but ≥ MDL

\*pptv at 1 atm and 25°C

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NA=Not applicable

**Table 5. MITC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	MITC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
117	ARBT15	07/29/01 0703	07/30/01 0619	1396	23.3	3.49	<MDL	<MDL	<MDL
118	CRST15	07/29/01 0752	07/30/01 0729	1417	23.6	3.54	DET	DET	DET
119	MVST15	07/29/01 0856	07/30/01 0842	1426	23.8	3.57	3.06E+00	8.6E-01	2.9E+02
120	VSDT15	07/29/01 0934	07/30/01 0924	1430	23.8	3.58	3.36E+00	9.4E-01	3.1E+02
121	ARVT15	07/29/01 1010	07/30/01 1002	1432	23.9	3.58	DET	DET	DET
122	METT15	07/29/01 1105	07/30/01 1100	1435	23.9	3.59	<MDL	<MDL	<MDL
124	ARBT16	07/30/01 0630	07/31/01 0614	1424	23.7	3.56	<MDL	<MDL	<MDL
125	ARBT16-C	07/30/01 0636	07/31/01 0624	1428	23.8	3.57	<MDL	<MDL	<MDL
126	CRST16	07/30/01 0740	07/31/01 0720	1420	23.7	3.55	<MDL	<MDL	<MDL
127	CRST16-C	07/30/01 0748	07/31/01 0727	1419	23.7	3.55	DET	DET	DET
128	MVST16	07/30/01 0852	07/31/01 0839	1427	23.8	3.57	DET	DET	DET
129	MVST16-C	07/30/01 0857	07/31/01 0846	1429	23.8	3.57	DET	DET	DET
130	VSDT16	07/30/01 0930	07/31/01 0928	1438	24.0	3.59	DET	DET	DET
131	VSDT16-C	07/30/01 0935	07/31/01 0935	1440	24.0	3.60	DET	DET	DET
132	ARVT16	07/30/01 1010	07/31/01 1007	1437	24.0	3.59	1.50E+00	4.2E-01	1.4E+02
133	ARVT16-C	07/30/01 1016	07/31/01 1015	1439	24.0	3.60	1.53E+00	4.3E-01	1.4E+02
134	METT16	07/30/01 1108	07/31/01 1103	1435	23.9	3.59	<MDL	<MDL	<MDL
135	METT16-C	07/30/01 1115	07/31/01 1109	1434	23.9	3.59	<MDL	<MDL	<MDL
136	ARBT17	07/31/01 0631	08/01/01 0629	1438	24.0	3.60	1.92E+00	5.3E-01	1.8E+02
137	CRST17	07/31/01 0735	08/01/01 0728	1433	23.9	3.58	DET	DET	DET
138	MVST17	07/31/01 0852	08/01/01 0828	1416	23.6	3.54	2.23E+01	6.3E+00	2.1E+03
139	VSDT17	07/31/01 0941	08/01/01 0901	1400	23.3	3.50	5.94E+00	1.7E+00	5.7E+02
140	ARVT17	07/31/01 1023	08/01/01 0932	1389	23.2	3.47	1.65E+00	4.8E-01	1.6E+02
141	METT17	07/31/01 1114	08/01/01 1020	1386	23.1	3.47	<MDL	<MDL	<MDL
142	ARBT18	08/01/01 0638	08/02/01 0623	1425	23.8	3.56	2.43E+00	6.8E-01	2.3E+02
143	CRST18	08/01/01 0737	08/02/01 0712	1415	23.6	3.54	<MDL	<MDL	<MDL
144	MVST18	08/01/01 0834	08/02/01 0807	1413	23.5	3.53	6.12E+00	1.7E+00	5.8E+02
145	VSDT18	08/01/01 0908	08/02/01 0834	1406	23.4	3.51	2.28E+00	6.5E-01	2.2E+02
146	ARVT18	08/01/01 0937	08/02/01 0856	1399	23.3	3.50	2.01E+00	5.7E-01	1.9E+02
147	METT18	08/01/01 1029	08/02/01 0934	1385	23.1	3.46	1.50E+01	4.3E+00	1.4E+03
148	ARBT19	08/06/01 0623	08/07/01 0626	1443	24.0	3.61	3.66E+00	1.0E+00	3.4E+02
150	CRST19	08/06/01 0723	08/07/01 0732	1449	24.1	3.62	<MDL	<MDL	<MDL
151	MVST19	08/06/01 0821	08/07/01 0831	1450	24.2	3.63	5.04E+00	1.4E+00	4.6E+02
152	VSDT19	08/06/01 0844	08/07/01 0905	1461	24.3	3.65	4.11E+00	1.1E+00	3.8E+02
153	ARVT19	08/06/01 0916	08/07/01 0939	1463	24.4	3.66	2.97E+00	8.1E-01	2.7E+02
154	METT19	08/06/01 1001	08/07/01 1025	1464	24.4	3.66	DET	DET	DET

MDL=0.3 ug/sample for MITC

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\*pptv at 1 atm and 25°C

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**Table 5. MITC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	MITC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
155	ARBT20	08/07/01 0628	08/08/01 0620	1432	23.9	3.58	5.97E+00	1.7E+00	5.6E+02
156	ARBT20-C	08/07/01 0644	08/08/01 0631	1427	23.8	3.57	6.18E+00	1.7E+00	5.8E+02
157	CRST20	08/07/01 0733	08/08/01 0709	1416	23.6	3.54	<MDL	<MDL	<MDL
158	CRST20-C	08/07/01 0736	08/08/01 0731	1435	23.9	3.59	<MDL	<MDL	<MDL
159	MVST20	08/07/01 0834	08/08/01 0822	1428	23.8	3.57	3.57E+00	1.0E+00	3.3E+02
160	MVST20-C	08/07/01 0838	08/08/01 0837	1439	24.0	3.60	3.69E+00	1.0E+00	3.4E+02
161	VSDT20	08/07/01 0907	08/08/01 0854	1427	23.8	3.57	6.12E+00	1.7E+00	5.7E+02
162	VSDT20-C	08/07/01 0909	08/08/01 0909	1440	24.0	3.60	5.79E+00	1.6E+00	5.4E+02
163	ARVT20	08/07/01 0940	08/08/01 0930	1430	23.8	3.57	1.56E+00	4.4E-01	1.5E+02
164	ARVT20-C	08/07/01 0941	08/08/01 0945	1444	24.1	3.61	DET	DET	DET
165	METT20	08/07/01 1027	08/08/01 1027	1440	24.0	3.60	DET	DET	DET
166	METT20-C	08/07/01 1029	08/08/01 1037	1448	24.1	3.62	DET	DET	DET
168	ARBT21	08/08/01 0622	08/09/01 0626	1444	24.1	3.61	DET	DET	DET
169	CRST21	08/08/01 0720	08/09/01 0720	1440	24.0	3.60	<MDL	<MDL	<MDL
170	MVST21	08/08/01 0828	08/09/01 0830	1442	24.0	3.60	1.65E+00	4.6E-01	1.5E+02
171	VSDT21	08/08/01 0904	08/09/01 0904	1440	24.0	3.60	DET	DET	DET
172	ARVT21	08/08/01 0941	08/09/01 0935	1434	23.9	3.59	DET	DET	DET
173	METT21	08/08/01 1030	08/09/01 1020	1430	23.8	3.57	DET	DET	DET
174	ARBT22	08/09/01 0628	08/10/01 0617	1429	23.8	3.57	DET	DET	DET
175	CRST22	08/09/01 0722	08/10/01 0658	1416	23.6	3.54	<MDL	<MDL	<MDL
176	MVST22	08/09/01 0832	08/10/01 0752	1400	23.3	3.50	DET	DET	DET
177	VSDT22	08/09/01 0906	08/10/01 0814	1388	23.1	3.47	DET	DET	DET
178	ARVT22	08/09/01 0939	08/10/01 0842	1383	23.1	3.46	2.73E+00	7.9E-01	2.6E+02
179	METT22	08/09/01 1022	08/10/01 0923	1381	23.0	3.45	DET	DET	DET
180	ARBT23	08/14/01 0701	08/15/01 0627	1406	23.4	3.52	2.76E+00	7.9E-01	2.6E+02
181	CRST23	08/14/01 0753	08/15/01 0731	1418	23.6	3.55	<MDL	<MDL	<MDL
182	MVST23	08/14/01 0849	08/15/01 0838	1429	23.8	3.57	3.30E+00	9.2E-01	3.1E+02
183	VSDT23	08/14/01 0919	08/15/01 0920	1441	24.0	3.60	4.05E+00	1.1E+00	3.8E+02
184	ARVT23	08/14/01 0947	08/15/01 0957	1450	24.2	3.63	DET	DET	DET
185	METT23	08/14/01 1030	08/15/01 1052	1462	24.4	3.65	3.54E+00	9.7E-01	3.2E+02
187	ARBT24	08/15/01 0636	08/16/01 0626	1430	23.8	3.57	2.52E+00	7.0E-01	2.4E+02
188	ARBT24-C	08/15/01 0642	08/16/01 0633	1431	23.9	3.58	2.97E+00	8.3E-01	2.8E+02
189	CRST24	08/15/01 0739	08/16/01 0727	1428	23.8	3.57	DET	DET	DET
190	CRST24-C	08/15/01 0746	08/16/01 0735	1429	23.8	3.57	DET	DET	DET
191	MVST24	08/15/01 0846	08/16/01 0836	1430	23.8	3.57	7.14E+00	2.0E+00	6.7E+02
192	MVST24-C	08/15/01 0852	08/16/01 0842	1430	23.8	3.58	7.08E+00	2.0E+00	6.6E+02

MDL=0.3 ug/sample for MITC

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\*pptv at 1 atm and 25°C

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							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
193	VS DT24	08/15/01 0928	08/16/01 0918	1430	23.8	3.57	2.91E+00	8.1E-01	2.7E+02
194	VS DT24-C	08/15/01 0934	08/16/01 0926	1432	23.9	3.58	2.91E+00	8.1E-01	2.7E+02
195	ARVT24	08/15/01 1005	08/16/01 0955	1430	23.8	3.57	2.28E+00	6.4E-01	2.1E+02
196	ARVT24-C	08/15/01 1011	08/16/01 1002	1431	23.9	3.58	2.28E+00	6.4E-01	2.1E+02
197	METT24	08/15/01 1058	08/16/01 1049	1431	23.9	3.58	3.51E+00	9.8E-01	3.3E+02
198	METT24-C	08/15/01 1104	08/16/01 1056	1432	23.9	3.58	3.45E+00	9.6E-01	3.2E+02
199	ARBT25	08/16/01 0640	08/17/01 0634	1434	23.9	3.58	2.37E+00	6.6E-01	2.2E+02
200	CRST25	08/16/01 0741	08/17/01 0730	1429	23.8	3.57	DET	DET	DET
201	MVST25	08/16/01 0852	08/17/01 0828	1416	23.6	3.54	6.36E+00	1.8E+00	6.0E+02
202	VS DT25	08/16/01 0931	08/17/01 0900	1409	23.5	3.52	7.20E+00	2.0E+00	6.8E+02
203	ARVT25	08/16/01 1007	08/17/01 0931	1404	23.4	3.51	5.79E+00	1.6E+00	5.5E+02
204	METT25	08/16/01 1102	08/17/01 1016	1394	23.2	3.48	2.34E+00	6.7E-01	2.2E+02
205	ARBT26	08/17/01 0645	08/18/01 0632	1427	23.8	3.57	DET	DET	DET
206	CRST26	08/17/01 0738	08/18/01 0718	1420	23.7	3.55	DET	DET	DET
207	MVST26	08/17/01 0834	08/18/01 0807	1413	23.5	3.53	1.98E+00	5.6E-01	1.9E+02
208	VS DT26	08/17/01 0908	08/18/01 0829	1401	23.3	3.50	DET	DET	DET
209	ARVT26	08/17/01 0938	08/18/01 0853	1395	23.3	3.49	DET	DET	DET
210	METT26	08/17/01 1023	08/18/01 0938	1395	23.3	3.49	DET	DET	DET
211	ARBT27	08/22/01 0632	08/23/01 0610	1418	23.6	3.55	DET	DET	DET
212	CRST27	08/22/01 0722	08/23/01 0718	1436	23.9	3.59	<MDL	<MDL	<MDL
213	MVST27	08/22/01 0819	08/23/01 0824	1445	24.1	3.61	7.32E+00	2.0E+00	6.8E+02
214	VS DT27	08/22/01 0848	08/23/01 0904	1456	24.3	3.64	2.70E+00	7.4E-01	2.5E+02
215	ARVT27	08/22/01 0908	08/23/01 0942	1474	24.6	3.68	DET	DET	DET
216	METT27	08/22/01 0953	08/23/01 1036	1483	24.7	3.71	DET	DET	DET
218	ARBT28	08/23/01 0623	08/24/01 0635	1452	24.2	3.63	1.59E+00	4.4E-01	1.5E+02
219	CRST28	08/23/01 0723	08/24/01 0723	1440	24.0	3.60	<MDL	<MDL	<MDL
220	MVST28	08/23/01 0828	08/24/01 0825	1437	24.0	3.59	2.37E+00	6.6E-01	2.2E+02
221	VS DT28	08/23/01 0910	08/24/01 0858	1428	23.8	3.57	4.86E+00	1.4E+00	4.6E+02
222	ARVT28	08/23/01 0951	08/24/01 0935	1424	23.7	3.56	DET	DET	DET
223	METT28	08/23/01 1045	08/24/01 1035	1430	23.8	3.57	DET	DET	DET
226	ARBT29	08/24/01 0624	08/25/01 0619	1435	23.9	3.59	DET	DET	DET
227	ARBT29-C	08/24/01 0636	08/25/01 0629	1433	23.9	3.58	DET	DET	DET
228	CRST29	08/24/01 0725	08/25/01 0710	1425	23.7	3.56	<MDL	<MDL	<MDL
229	CRST29-C	08/24/01 0732	08/25/01 0723	1431	23.9	3.58	<MDL	<MDL	<MDL
230	MVST29	08/24/01 0828	08/25/01 0820	1432	23.9	3.58	DET	DET	DET
231	MVST29-C	08/24/01 0830	08/25/01 0836	1446	24.1	3.61	DET	DET	DET

MDL=0.3 ug/sample for MITC

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\*pptv at 1 atm and 25<sup>0</sup>C

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**Table 5. MITC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m <sup>3</sup> )	MITC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
232	VS DT29	08/24/01 0900	08/25/01 0900	1440	24.0	3.60	DET	DET	DET
233	VS DT29-C	08/24/01 0903	08/25/01 0910	1447	24.1	3.62	DET	DET	DET
234	ARVT29	08/24/01 0936	08/25/01 0935	1439	24.0	3.60	<MDL	<MDL	<MDL
235	ARVT29-C	08/24/01 0939	08/25/01 0940	1441	24.0	3.60	<MDL	<MDL	<MDL
236	METT29	08/24/01 1036	08/25/01 1029	1433	23.9	3.58	<MDL	<MDL	<MDL
237	METT29-C	08/24/01 1039	08/25/01 1040	1441	24.0	3.60	<MDL	<MDL	<MDL
238	ARBT30	08/25/01 0620	08/26/01 0625	1445	24.1	3.61	DET	DET	DET
239	CRST30	08/25/01 0713	08/26/01 0710	1437	24.0	3.59	<MDL	<MDL	<MDL
240	MVST30	08/25/01 0823	08/26/01 0800	1417	23.6	3.54	<MDL	<MDL	<MDL
241	VS DT30	08/25/01 0902	08/26/01 0825	1403	23.4	3.51	<MDL	<MDL	<MDL
242	ARVT30	08/25/01 0936	08/26/01 0848	1392	23.2	3.48	<MDL	<MDL	<MDL
243	METT30	08/25/01 1032	08/26/01 0933	1381	23.0	3.45	DET	DET	DET
244	ARBT31	08/28/01 0619	08/29/01 0657	1478	24.6	3.69	2.49E+00	6.7E-01	2.3E+02
245	CRST31	08/28/01 0710	08/29/01 0750	1480	24.7	3.70	DET	DET	DET
246	MVST31	08/28/01 0810	08/29/01 0843	1473	24.5	3.68	3.72E+00	1.0E+00	3.4E+02
247	VS DT31	08/28/01 0835	08/29/01 0913	1478	24.6	3.69	DET	DET	DET
248	ARVT31	08/28/01 0917	08/29/01 0943	1466	24.4	3.67	<MDL	<MDL	<MDL
249	METT31	08/28/01 0958	08/29/01 1034	1476	24.6	3.69	DET	DET	DET
250	ARBT32	08/29/01 0701	08/30/01 0646	1425	23.8	3.56	DET	DET	DET
251	CRST32	08/29/01 0754	08/30/01 0740	1426	23.8	3.56	<MDL	<MDL	<MDL
252	MVST32	08/29/01 0849	08/30/01 0838	1429	23.8	3.57	7.56E+00	2.1E+00	7.1E+02
253	VS DT32	08/29/01 0918	08/30/01 0912	1434	23.9	3.59	4.47E+00	1.2E+00	4.2E+02
254	ARVT32	08/29/01 0947	08/30/01 0940	1433	23.9	3.58	DET	DET	DET
255	METT32	08/29/01 1039	08/30/01 1022	1423	23.7	3.56	DET	DET	DET
257	ARBT33	08/30/01 0653	08/31/01 0624	1411	23.5	3.53	<MDL	<MDL	<MDL
258	CRST33	08/30/01 0744	08/31/01 0711	1407	23.4	3.52	<MDL	<MDL	<MDL
259	MVST33	08/30/01 0845	08/31/01 0807	1402	23.4	3.50	2.70E+00	7.7E-01	2.6E+02
260	VS DT33	08/30/01 0916	08/31/01 0843	1407	23.4	3.52	3.84E+00	1.1E+00	3.7E+02
261	ARVT33	08/30/01 0945	08/31/01 0919	1414	23.6	3.53	DET	DET	DET
262	METT33	08/30/01 1030	08/31/01 1029	1439	24.0	3.60	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but ≥ MDL

\*pptv at 1 atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA=Not applicable

**Table 6. Summary of MITC Results for Kern County 2001 (ug/m<sup>3</sup>)**

Start Date	ARB	ARV	CRS	MET	MVS	VSD
06/30/01	DET	1.4E+00	<MDL	<MDL	4.6E-01	DET
07/01/01	DET	2.4E+00	<MDL	<MDL	7.6E-01	DET
07/02/01	5.6E-01	2.6E+00	<MDL	NA	2.7E+00	6.2E+00
07/06/01	1.3E+00	1.2E+00	DET	DET	5.3E+00	1.1E+00
07/07/01	DET	9.1E-01	DET	DET	8.7E-01	5.9E-01
07/08/01	<MDL	9.0E-01	<MDL	<MDL	4.9E-01	DET
07/13/01	1.3E+00	4.4E+00	DET	DET	4.6E+00	9.6E+00
07/14/01	5.8E-01	2.0E+00	DET	5.3E-01	4.9E+00	1.6E+00
07/15/01	<MDL	DET	<MDL	DET	<MDL	DET
07/16/01	<MDL	1.4E+00	<MDL	DET	DET	DET
07/21/01	DET	6.2E-01	<MDL	DET	1.1E+00	2.4E+00
07/22/01	DET	3.0E+00	<MDL	DET	1.7E+00	1.7E+00
07/23/01	5.5E-01	9.6E-01	DET	DET	1.2E+01	2.6E+00
07/24/01	DET	1.7E+00	<MDL	DET	2.2E+01	5.7E+00
07/29/01	<MDL	DET	DET	<MDL	8.6E-01	9.4E-01
07/30/01	<MDL	4.3E-01	DET	<MDL	DET	DET
07/31/01	5.3E-01	4.8E-01	DET	<MDL	6.3E+00	1.7E+00
08/01/01	6.8E-01	5.7E-01	<MDL	4.3E+00	1.7E+00	6.5E-01
08/06/01	1.0E+00	8.1E-01	<MDL	DET	1.4E+00	1.1E+00
08/07/01	1.7E+00	4.4E-01	<MDL	DET	1.0E+00	1.7E+00
08/08/01	DET	DET	<MDL	DET	4.6E-01	DET
08/09/01	DET	7.9E-01	<MDL	DET	DET	DET
08/14/01	7.9E-01	DET	<MDL	9.7E-01	9.2E-01	1.1E+00
08/15/01	8.3E-01	6.4E-01	DET	9.8E-01	2.0E+00	8.1E-01
08/16/01	6.6E-01	1.6E+00	DET	6.7E-01	1.8E+00	2.0E+00
08/17/01	DET	DET	DET	DET	5.6E-01	DET
08/22/01	DET	DET	<MDL	DET	2.0E+00	7.4E-01
08/23/01	4.4E-01	DET	<MDL	DET	6.6E-01	1.4E+00
08/24/01	DET	<MDL	<MDL	<MDL	DET	DET
08/25/01	DET	<MDL	<MDL	DET	<MDL	<MDL
08/28/01	6.7E-01	<MDL	DET	DET	1.0E+00	DET
08/29/01	DET	DET	<MDL	DET	2.1E+00	1.2E+00
08/30/01	<MDL	DET	<MDL	<MDL	7.7E-01	1.1E+00

	ARB	ARV	CRS	MET	MVS	VSD
<b>Maximum</b>	1.7E+00	4.4E+00	DET	4.3E+00	2.2E+01	9.6E+00
<b>Average</b>	4.6E-01	9.6E-01	1.2E-01	3.9E-01	2.5E+00	1.5E+00
<b># Sample</b>	33	33	33	32	33	33
<b># &gt;EQL</b>	14	21	0	5	27	21
<b># DET</b>	13	9	12	19	4	11
<b># &lt;MDL</b>	6	3	21	8	2	1

Only the higher value of each collocated pair was listed in the table.

<MDL results were factored in as MDL/2= 0.042 ug/m<sup>3</sup>

DET results were factored in as (EQL+MDL)/2= 0.25 ug/m<sup>3</sup>

**Table 7. MITC Collocated Results for Kern County 2001**

Sample ID	MITC (ug/m <sup>3</sup> )	Average	Rel % D	Sample ID	MITC (ug/m <sup>3</sup> )	Average	Rel % D
ARBT3	5.6E-01	5.5E-01	3.2	ARBT16	<MDL	NA	NA
ARBT3-C	5.5E-01			ARBT16-C	<MDL		
CRST3	<MDL	NA	NA	CRST16	<MDL	NA	NA
CRST3-C	<MDL			CRST16-C	DET		
MVST3	2.7E+00	2.4E+00	23.8	MVST16	DET	NA	NA
MVST3-C	2.1E+00			MVST16-C	DET		
VSDT3	6.2E+00	6.1E+00	3.9	VSDT16	DET	NA	NA
VSDT3-C	5.9E+00			VSDT16-C	DET		
ARVT3	2.6E+00	2.6E+00	2.9	ARVT16	4.2E-01	4.2E-01	1.8
ARVT3-C	2.5E+00			ARVT16-C	4.3E-01		
METT3	<MDL	NA	NA	METT16	<MDL	NA	NA
METT3-C	<MDL			METT16-C	<MDL		
ARBT5	DET	NA	NA	ARBT20	1.7E+00	1.7E+00	3.8
ARBT5-C	DET			ARBT20-C	1.7E+00		
CRST5	DET	NA	NA	CRST20	<MDL	NA	NA
CRST5-C	DET			CRST20-C	<MDL		
MVST5	8.7E-01	8.6E-01	1.9	MVST20	1.0E+00	1.0E+00	2.5
MVST5-C	8.5E-01			MVST20-C	1.0E+00		
VSDT5	5.9E-01	5.9E-01	1.6	VSDT20	1.7E+00	1.7E+00	6.4
VSDT5-C	5.8E-01			VSDT20-C	1.6E+00		
ARVT5	9.1E-01	8.8E-01	6.7	ARVT20	4.4E-01	NA	NA
ARVT5-C	8.5E-01			ARVT20-C	DET		
METT5	DET	NA	NA	METT20	DET	NA	NA
METT5-C	DET			METT20-C	DET		
ARBT8	5.8E-01	5.7E-01	3.0	ARBT24	7.0E-01	7.7E-01	16.3
ARBT8-C	5.7E-01			ARBT24-C	8.3E-01		
CRST8	DET	NA	NA	CRST24	DET	NA	NA
CRST8-C	DET			CRST24-C	DET		
MVST8	4.7E+00	4.8E+00	4.7	MVST24	2.0E+00	2.0E+00	0.8
MVST8-C	4.9E+00			MVST24-C	2.0E+00		
VSDT8	1.6E+00	1.5E+00	5.3	VSDT24	8.1E-01	8.1E-01	0.1
VSDT8-C	1.5E+00			VSDT24-C	8.1E-01		
ARVT8	2.0E+00	1.9E+00	11.6	ARVT24	6.4E-01	6.4E-01	0.1
ARVT8-C	1.8E+00			ARVT24-C	6.4E-01		
METT8	NA	NA	NA	METT24	9.8E-01	9.7E-01	1.8
METT8-C	5.3E-01			METT24-C	9.6E-01		
ARBT13	5.4E-01	5.4E-01	2.6	ARBT29	DET	NA	NA
ARBT13-C	5.5E-01			ARBT29-C	DET		
CRST13	DET	NA	NA	CRST29	<MDL	NA	NA
CRST13-C	DET			CRST29-C	<MDL		
MVST13	1.2E+01	1.2E+01	12.9	MVST29	DET	NA	NA
MVST13-C	1.1E+01			MVST29-C	DET		
VSDT13	2.6E+00	2.5E+00	6.2	VSDT29	DET	NA	NA
VSDT13-C	2.4E+00			VSDT29-C	DET		
ARVT13	9.6E-01	9.6E-01	0.5	ARVT29	<MDL	NA	NA
ARVT13-C	9.6E-01			ARVT29-C	<MDL		
METT13	DET	NA	NA	METT29	<MDL	NA	NA
METT13-C	DET			METT29-C	<MDL		
<b>AVE RPD</b>							<b>5.2</b>

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
1	ARBM1-F	06/30/01 0638	07/01/01 0631	1433	23.9	0.11	<MDL	<MDL	<MDL
2	ARBM1-B	06/30/01 0638	07/01/01 0631	1433	23.9	0.11	<MDL	<MDL	<MDL
3	CRSM1-F	06/30/01 0747	07/01/01 0816	1469	24.5	0.11	<MDL	<MDL	<MDL
4	CRSM1-B	06/30/01 0747	07/01/01 0816	1469	24.5	0.11	<MDL	<MDL	<MDL
5	MVSM1-F	06/30/01 0852	07/01/01 0945	1493	24.9	0.11	<MDL	<MDL	<MDL
6	MVSM1-B	06/30/01 0852	07/01/01 0945	1493	24.9	0.11	<MDL	<MDL	<MDL
7	VSDM1-F	06/30/01 0948	07/01/01 1025	1477	24.6	0.11	<MDL	<MDL	<MDL
8	VSDM1-B	06/30/01 0948	07/01/01 1025	1477	24.6	0.11	<MDL	<MDL	<MDL
9	ARVM1-F	06/30/01 1031	07/01/01 1104	1473	24.5	0.11	<MDL	<MDL	<MDL
10	ARVM1-B	06/30/01 1031	07/01/01 1104	1473	24.5	0.11	<MDL	<MDL	<MDL
11	METM1-F	06/30/01 1130	07/01/01 1156	1466	24.4	0.11	<MDL	<MDL	<MDL
12	METM1-B	06/30/01 1130	07/01/01 1156	1466	24.4	0.11	<MDL	<MDL	<MDL
13	ARBM2-F	07/01/01 0641	07/02/01 0618	1417	23.6	0.11	<MDL	<MDL	<MDL
14	ARBM2-B	07/01/01 0641	07/02/01 0618	1417	23.6	0.11	<MDL	<MDL	<MDL
15	CRSM2-F	07/01/01 0831	07/02/01 0736	1385	23.1	0.10	<MDL	<MDL	<MDL
16	CRSM2-B	07/01/01 0831	07/02/01 0736	1385	23.1	0.10	<MDL	<MDL	<MDL
17	MVSM2-F	07/01/01 0952	07/02/01 0904	1392	23.2	0.10	<MDL	<MDL	<MDL
18	MVSM2-B	07/01/01 0952	07/02/01 0904	1392	23.2	0.10	<MDL	<MDL	<MDL
19	VSDM2-F	07/01/01 1033	07/02/01 1011	1418	23.6	0.11	<MDL	<MDL	<MDL
20	VSDM2-B	07/01/01 1033	07/02/01 1011	1418	23.6	0.11	<MDL	<MDL	<MDL
21	ARVM2-F	07/01/01 1111	07/02/01 1110	1439	24.0	0.11	<MDL	<MDL	<MDL
22	ARVM2-B	07/01/01 1111	07/02/01 1110	1439	24.0	0.11	<MDL	<MDL	<MDL
23	METM2-F	07/01/01 1202	07/02/01 1217	1455	24.3	0.11	<MDL	<MDL	<MDL
24	METM2-B	07/01/01 1202	07/02/01 1217	1455	24.3	0.11	<MDL	<MDL	<MDL
25	ARBM3-F	07/02/01 0627	07/03/01 0644	1457	24.3	0.11	<MDL	<MDL	<MDL
26	ARBM3-B	07/02/01 0627	07/03/01 0644	1457	24.3	0.11	<MDL	<MDL	<MDL
27	ARBM3-FC	07/02/01 0648	07/03/01 0659	1451	24.2	0.11	<MDL	<MDL	<MDL
28	ARBM3-BC	07/02/01 0648	07/03/01 0659	1451	24.2	0.11	<MDL	<MDL	<MDL
29	CRSM3-F	07/02/01 0750	07/03/01 0801	1451	24.2	0.11	<MDL	<MDL	<MDL
30	CRSM3-B	07/02/01 0750	07/03/01 0801	1451	24.2	0.11	<MDL	<MDL	<MDL
31	CRSM3-FC	07/02/01 0808	07/03/01 0816	1448	24.1	0.11	<MDL	<MDL	<MDL
32	CRSM3-BC	07/02/01 0808	07/03/01 0816	1448	24.1	0.11	<MDL	<MDL	<MDL
33	MVSM3-F	07/02/01 0913	07/03/01 0916	1443	24.0	0.11	<MDL	<MDL	<MDL
34	MVSM3-B	07/02/01 0913	07/03/01 0916	1443	24.0	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
35	MVSM3-FC	07/02/01 0937	07/03/01 0929	1432	23.9	0.10	<MDL	<MDL	<MDL
36	MVSM3-BC	07/02/01 0937	07/03/01 0929	1432	23.9	0.10	<MDL	<MDL	<MDL
37	VSDM3-F	07/02/01 1018	07/03/01 1003	1425	23.7	0.11	<MDL	<MDL	<MDL
38	VSDM3-B	07/02/01 1018	07/03/01 1003	1425	23.7	0.11	<MDL	<MDL	<MDL
39	VSDM3-FC	07/02/01 1038	07/03/01 1018	1420	23.7	0.11	<MDL	<MDL	<MDL
40	VSDM3-BC	07/02/01 1038	07/03/01 1018	1420	23.7	0.11	<MDL	<MDL	<MDL
41	ARVM3-F	07/02/01 1118	07/03/01 1047	1409	23.5	0.11	<MDL	<MDL	<MDL
42	ARVM3-B	07/02/01 1118	07/03/01 1047	1409	23.5	0.11	<MDL	<MDL	<MDL
43	ARVM3-FC	07/02/01 1136	07/03/01 1100	1404	23.4	0.11	<MDL	<MDL	<MDL
44	ARVM3-BC	07/02/01 1136	07/03/01 1100	1404	23.4	0.11	<MDL	<MDL	<MDL
45	METM3-F	07/02/01 1224	07/03/01 1144	1400	23.3	0.10	<MDL	<MDL	<MDL
46	METM3-B	07/02/01 1224	07/03/01 1144	1400	23.3	0.10	<MDL	<MDL	<MDL
47	METM3-FC	07/02/01 1239	07/03/01 1153	1394	23.2	0.10	<MDL	<MDL	<MDL
48	METM3-BC	07/02/01 1239	07/03/01 1153	1394	23.2	0.10	<MDL	<MDL	<MDL
51	ARBM4-F	07/06/01 0654	07/07/01 0621	1407	23.4	0.11	DET	DET	DET
52	ARBM4-B	07/06/01 0654	07/07/01 0621	1407	23.4	0.11	DET	DET	DET
55	CRSM4-F	07/06/01 0805	07/07/01 0801	1436	23.9	0.11	DET	DET	DET
56	CRSM4-B	07/06/01 0805	07/07/01 0801	1436	23.9	0.11	<MDL	<MDL	<MDL
57	MVSM4-F	07/06/01 0922	07/07/01 0935	1453	24.2	0.11	DET	DET	DET
58	MVSM4-B	07/06/01 0922	07/07/01 0935	1453	24.2	0.11	<MDL	<MDL	<MDL
59	VSDM4-F	07/06/01 0958	07/07/01 1018	1460	24.3	0.12	<MDL	<MDL	<MDL
60	VSDM4-B	07/06/01 0958	07/07/01 1018	1460	24.3	0.12	<MDL	<MDL	<MDL
61	ARVM4-F	07/06/01 1039	07/07/01 1056	1457	24.3	0.11	<MDL	<MDL	<MDL
62	ARVM4-B	07/06/01 1039	07/07/01 1056	1457	24.3	0.11	<MDL	<MDL	<MDL
63	METM4-F	07/06/01 1139	07/07/01 1204	1465	24.4	0.11	<MDL	<MDL	<MDL
64	METM4-B	07/06/01 1139	07/07/01 1204	1465	24.4	0.11	<MDL	<MDL	<MDL
65	ARBM5-F	07/07/01 0629	07/08/01 0610	1421	23.7	0.11	<MDL	<MDL	<MDL
66	ARBM5-B	07/07/01 0629	07/08/01 0610	1421	23.7	0.11	<MDL	<MDL	<MDL
67	ARBM5-FC	07/07/01 0656	07/08/01 0638	1422	23.7	0.11	DET	DET	DET
68	ARBM5-BC	07/07/01 0656	07/08/01 0638	1422	23.7	0.11	DET	DET	DET
69	CRSM5-F	07/07/01 0807	07/08/01 0725	1398	23.3	0.10	DET	DET	DET
70	CRSM5-B	07/07/01 0807	07/08/01 0725	1398	23.3	0.10	<MDL	<MDL	<MDL
71	CRSM5-FC	07/07/01 0827	07/08/01 0744	1397	23.3	0.10	DET	DET	DET
72	CRSM5-BC	07/07/01 0827	07/08/01 0744	1397	23.3	0.10	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but  $\geq$ MDL.

\*pptv at 1atm and 25<sup>o</sup>C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
73	MVSM5-F	07/07/01 0940	07/08/01 0843	1383	23.0	0.10	DET	DET	DET
74	MVSM5-B	07/07/01 0940	07/08/01 0843	1383	23.0	0.10	<MDL	<MDL	<MDL
75	MVSM5-FC	07/07/01 0954	07/08/01 0913	1399	23.3	0.12	DET	DET	DET
76	MVSM5-BC	07/07/01 0954	07/08/01 0913	1399	23.3	0.12	<MDL	<MDL	<MDL
77	VSDM5-F	07/07/01 1023	07/08/01 0947	1404	23.4	0.11	DET	DET	DET
78	VSDM5-B	07/07/01 1023	07/08/01 0947	1404	23.4	0.11	<MDL	<MDL	<MDL
79	VSDM5-FC	07/07/01 1034	07/08/01 1014	1420	23.7	0.11	DET	DET	DET
80	VSDM5-BC	07/07/01 1034	07/08/01 1014	1420	23.7	0.11	<MDL	<MDL	<MDL
81	ARVM5-F	07/07/01 1102	07/08/01 1042	1420	23.7	0.11	DET	DET	DET
82	ARVM5-B	07/07/01 1102	07/08/01 1042	1420	23.7	0.11	<MDL	<MDL	<MDL
83	ARVM5-FC	07/07/01 1119	07/08/01 1103	1424	23.7	0.11	DET	DET	DET
84	ARVM5-BC	07/07/01 1119	07/08/01 1103	1424	23.7	0.11	<MDL	<MDL	<MDL
85	METM5-F	07/07/01 1217	07/08/01 1149	1412	23.5	0.11	DET	DET	DET
86	METM5-B	07/07/01 1217	07/08/01 1149	1412	23.5	0.11	<MDL	<MDL	<MDL
87	METM5-FC	07/07/01 1230	07/08/01 1206	1416	23.6	0.11	DET	DET	DET
88	METM5-BC	07/07/01 1230	07/08/01 1206	1416	23.6	0.11	<MDL	<MDL	<MDL
92	ARBM6-F	07/08/01 0617	07/09/01 0612	1435	23.9	0.11	DET	DET	DET
93	ARBM6-B	07/08/01 0617	07/09/01 0612	1435	23.9	0.11	<MDL	<MDL	<MDL
94	CRSM6-F	07/08/01 0730	07/09/01 0701	1411	23.5	0.11	DET	DET	DET
95	CRSM6-B	07/08/01 0730	07/09/01 0701	1411	23.5	0.11	<MDL	<MDL	<MDL
96	MVSM6-F	07/08/01 0849	07/09/01 0800	1391	23.2	0.10	<MDL	<MDL	<MDL
97	MVSM6-B	07/08/01 0849	07/09/01 0800	1391	23.2	0.10	<MDL	<MDL	<MDL
98	VSDM6-F	07/08/01 0951	07/09/01 0854	1383	23.1	0.11	DET	DET	DET
99	VSDM6-B	07/08/01 0951	07/09/01 0854	1383	23.1	0.11	<MDL	<MDL	<MDL
100	ARVM6-F	07/08/01 1046	07/09/01 0946	1380	23.0	0.10	DET	DET	DET
101	ARVM6-B	07/08/01 1046	07/09/01 0946	1380	23.0	0.10	<MDL	<MDL	<MDL
102	METM6-F	07/08/01 1153	07/09/01 1056	1383	23.1	0.10	DET	DET	DET
103	METM6-B	07/08/01 1153	07/09/01 1056	1383	23.1	0.10	<MDL	<MDL	<MDL
104	ARBM7-F	07/13/01 0638	07/14/01 0555	1397	23.3	0.10	<MDL	<MDL	<MDL
105	ARBM7-B	07/13/01 0638	07/14/01 0555	1397	23.3	0.10	<MDL	<MDL	<MDL
107	CRSM7-F	07/13/01 0750	07/14/01 0704	1394	23.2	0.10	<MDL	<MDL	<MDL
108	CRSM7-B	07/13/01 0750	07/14/01 0704	1394	23.2	0.10	<MDL	<MDL	<MDL
109	MVSM7-F	07/13/01 0852	07/14/01 0815	1403	23.4	0.11	DET	DET	DET
110	MVSM7-B	07/13/01 0852	07/14/01 0815	1403	23.4	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
111	VSDM7-F	07/13/01 0939	07/14/01 0900	1401	23.3	0.11	<MDL	<MDL	<MDL
112	VSDM7-B	07/13/01 0939	07/14/01 0900	1401	23.3	0.11	<MDL	<MDL	<MDL
113	ARVM7-F	07/13/01 1027	07/14/01 0941	1394	23.2	0.10	<MDL	<MDL	<MDL
114	ARVM7-B	07/13/01 1027	07/14/01 0941	1394	23.2	0.10	<MDL	<MDL	<MDL
115	METM7-F	07/13/01 1203	07/14/01 1109	1386	23.1	Inv	NA	NA	NA
116	METM7-B	07/13/01 1203	07/14/01 1109	1386	23.1	Inv	NA	NA	NA
117	ARBM8-F	07/14/01 0610	07/15/01 0603	1433	23.9	0.11	<MDL	<MDL	<MDL
118	ARBM8-B	07/14/01 0610	07/15/01 0603	1433	23.9	0.11	<MDL	<MDL	<MDL
119	ARBM8-FC	07/14/01 0618	07/15/01 0619	1441	24.0	0.11	<MDL	<MDL	<MDL
120	ARBM8-BC	07/14/01 0618	07/15/01 0619	1441	24.0	0.11	<MDL	<MDL	<MDL
121	CRSM8-F	07/14/01 0715	07/15/01 0709	1434	23.9	0.11	<MDL	<MDL	<MDL
122	CRSM8-B	07/14/01 0715	07/15/01 0709	1434	23.9	0.11	<MDL	<MDL	<MDL
123	CRSM8-FC	07/14/01 0722	07/15/01 0723	1441	24.0	0.11	<MDL	<MDL	<MDL
124	CRSM8-BC	07/14/01 0722	07/15/01 0723	1441	24.0	0.11	<MDL	<MDL	<MDL
125	MVSM8-F	07/14/01 0823	07/15/01 0826	1443	24.0	0.11	<MDL	<MDL	<MDL
126	MVSM8-B	07/14/01 0823	07/15/01 0826	1443	24.0	0.11	<MDL	<MDL	<MDL
127	MVSM8-FC	07/14/01 0830	07/15/01 0842	1452	24.2	0.11	<MDL	<MDL	<MDL
128	MVSM8-BC	07/14/01 0830	07/15/01 0842	1452	24.2	0.11	<MDL	<MDL	<MDL
129	VSDM8-F	07/14/01 0909	07/15/01 0916	1447	24.1	0.11	<MDL	<MDL	<MDL
130	VSDM8-B	07/14/01 0909	07/15/01 0916	1447	24.1	0.11	<MDL	<MDL	<MDL
131	VSDM8-FC	07/14/01 0915	07/15/01 0933	1458	24.3	0.11	<MDL	<MDL	<MDL
132	VSDM8-BC	07/14/01 0915	07/15/01 0933	1458	24.3	0.11	<MDL	<MDL	<MDL
133	ARVM8-F	07/14/01 0952	07/15/01 1004	1452	24.2	0.11	<MDL	<MDL	<MDL
134	ARVM8-B	07/14/01 0952	07/15/01 1004	1452	24.2	0.11	<MDL	<MDL	<MDL
135	ARVM8-FC	07/14/01 0959	07/15/01 1016	1457	24.3	0.11	<MDL	<MDL	<MDL
136	ARVM8-BC	07/14/01 0959	07/15/01 1016	1457	24.3	0.11	<MDL	<MDL	<MDL
137	METM8-F	07/14/01 1119	07/15/01 1059	1420	23.7	0.11	<MDL	<MDL	<MDL
138	METM8-B	07/14/01 1119	07/15/01 1059	1420	23.7	0.11	<MDL	<MDL	<MDL
139	METM8-FC	07/14/01 1127	07/15/01 1123	1436	23.9	0.11	<MDL	<MDL	<MDL
140	METM8-BC	07/14/01 1127	07/15/01 1123	1436	23.9	0.11	<MDL	<MDL	<MDL
141	ARBM9-F	07/15/01 0628	07/16/01 0615	1427	23.8	0.11	<MDL	<MDL	<MDL
142	ARBM9-B	07/15/01 0628	07/16/01 0615	1427	23.8	0.11	<MDL	<MDL	<MDL
143	CRSM9-F	07/15/01 0736	07/16/01 0717	1421	23.7	0.11	<MDL	<MDL	<MDL
144	CRSM9-B	07/15/01 0736	07/16/01 0717	1421	23.7	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but  $\geq$ MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
145	MVSM9-F	07/15/01 0851	07/16/01 0824	1413	23.5	0.11	<MDL	<MDL	<MDL
146	MVSM9-B	07/15/01 0851	07/16/01 0824	1413	23.5	0.11	<MDL	<MDL	<MDL
147	VSDM9-F	07/15/01 0941	07/16/01 0903	1402	23.4	0.11	<MDL	<MDL	<MDL
148	VSDM9-B	07/15/01 0941	07/16/01 0903	1402	23.4	0.11	<MDL	<MDL	<MDL
149	ARVM9-F	07/15/01 1023	07/16/01 0945	1402	23.4	0.11	<MDL	<MDL	<MDL
150	ARVM9-B	07/15/01 1023	07/16/01 0945	1402	23.4	0.11	<MDL	<MDL	<MDL
151	METM9-F	07/15/01 1130	07/16/01 1038	1388	23.1	0.10	<MDL	<MDL	<MDL
152	METM9-B	07/15/01 1130	07/16/01 1038	1388	23.1	0.10	<MDL	<MDL	<MDL
153	ARB-M10-F	07/15/01 0626	07/16/01 0626	1440	24.0	0.11	<MDL	<MDL	<MDL
154	ARBM10-B	07/15/01 0626	07/16/01 0626	1440	24.0	0.11	<MDL	<MDL	<MDL
155	CRSM10-F	07/16/01 0729	07/17/01 0714	1425	23.8	0.11	<MDL	<MDL	<MDL
156	CRSM10-B	07/16/01 0729	07/17/01 0714	1425	23.8	0.11	<MDL	<MDL	<MDL
157	MVSM10-F	07/16/01 0836	07/17/01 0818	1422	23.7	0.11	<MDL	<MDL	<MDL
158	MVSM10-B	07/16/01 0836	07/17/01 0818	1422	23.7	0.11	<MDL	<MDL	<MDL
159	VSDM10-F	07/16/01 0917	07/17/01 0846	1409	23.5	0.11	<MDL	<MDL	<MDL
160	VSDM10-B	07/16/01 0917	07/17/01 0846	1409	23.5	0.11	<MDL	<MDL	<MDL
161	ARVM10-F	07/16/01 0956	07/17/01 0919	1403	23.4	0.11	<MDL	<MDL	<MDL
162	ARVM10-B	07/16/01 0956	07/17/01 0919	1403	23.4	0.11	<MDL	<MDL	<MDL
163	METM10-F	07/16/01 1053	07/17/01 0956	1383	23.1	0.10	<MDL	<MDL	<MDL
164	METM10-B	07/16/01 1053	07/17/01 0956	1383	23.1	0.10	<MDL	<MDL	<MDL
165	ARBM11-F	07/21/01 0621	07/22/01 0606	1425	23.8	0.11	<MDL	<MDL	<MDL
166	ARBM11-B	07/21/01 0621	07/22/01 0606	1425	23.8	0.11	<MDL	<MDL	<MDL
169	CRSM11-F	07/21/01 0721	07/22/01 0711	1430	23.8	0.11	<MDL	<MDL	<MDL
170	CRSM11-B	07/21/01 0721	07/22/01 0711	1430	23.8	0.11	<MDL	<MDL	<MDL
171	MVSM11-F	07/21/01 0815	07/22/01 0816	1441	24.0	0.11	<MDL	<MDL	<MDL
172	MVSM11-B	07/21/01 0815	07/22/01 0816	1441	24.0	0.11	<MDL	<MDL	<MDL
173	VSDM11-F	07/21/01 0845	07/22/01 0900	1455	24.2	0.11	<MDL	<MDL	<MDL
174	VSDM11-B	07/21/01 0845	07/22/01 0900	1455	24.2	0.11	<MDL	<MDL	<MDL
175	ARVM11-F	07/21/01 0910	07/22/01 0935	1465	24.4	0.11	<MDL	<MDL	<MDL
176	ARVM11-B	07/21/01 0910	07/22/01 0935	1465	24.4	0.11	<MDL	<MDL	<MDL
177	METM11-F	07/21/01 1002	07/22/01 1024	1462	24.4	0.11	<MDL	<MDL	<MDL
178	METM11-B	07/21/01 1002	07/22/01 1024	1462	24.4	0.11	<MDL	<MDL	<MDL
181	ARBM12-F	07/22/01 0613	07/23/01 0608	1435	23.9	0.11	<MDL	<MDL	<MDL
182	ARBM12-B	07/22/01 0613	07/23/01 0608	1435	23.9	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
183	CRSM12-F	07/22/01 0717	07/23/01 0711	1434	23.9	0.11	<MDL	<MDL	<MDL
184	CRSM12-B	07/22/01 0717	07/23/01 0711	1434	23.9	0.11	<MDL	<MDL	<MDL
185	MVSM12-F	07/22/01 0822	07/23/01 0822	1440	24.0	0.11	<MDL	<MDL	<MDL
186	MVSM12-B	07/22/01 0822	07/23/01 0822	1440	24.0	0.11	<MDL	<MDL	<MDL
187	VSDM12-F	07/22/01 0907	07/23/01 0856	1429	23.8	0.11	<MDL	<MDL	<MDL
188	VSDM12-B	07/22/01 0907	07/23/01 0856	1429	23.8	0.11	<MDL	<MDL	<MDL
189	ARVM12-F	07/22/01 0940	07/23/01 0933	1433	23.9	0.11	<MDL	<MDL	<MDL
190	ARVM12-B	07/22/01 0940	07/23/01 0933	1433	23.9	0.11	<MDL	<MDL	<MDL
191	METM12-F	07/22/01 1024	07/23/01 1024	1440	24.0	0.11	<MDL	<MDL	<MDL
192	METM12-B	07/22/01 1030	07/23/01 1024	1434	23.9	0.11	<MDL	<MDL	<MDL
193	ARBM13-F	07/23/01 0614	07/24/01 0607	1433	23.9	0.11	<MDL	<MDL	<MDL
194	ARBM13-B	07/23/01 0614	07/24/01 0607	1433	23.9	0.11	<MDL	<MDL	<MDL
195	ARBM13-FC	07/23/01 0625	07/24/01 0624	1439	24.0	0.11	<MDL	<MDL	<MDL
196	ARBM13-BC	07/23/01 0625	07/24/01 0624	1439	24.0	0.11	<MDL	<MDL	<MDL
197	CRSM13-F	07/23/01 0719	07/24/01 0708	1429	23.8	0.11	<MDL	<MDL	<MDL
198	CRSM13-B	07/23/01 0719	07/24/01 0708	1429	23.8	0.11	<MDL	<MDL	<MDL
199	CRSM13-FC	07/23/01 0731	07/24/01 0726	1435	23.9	0.11	<MDL	<MDL	<MDL
200	CRSM13-BC	07/23/01 0731	07/24/01 0726	1435	23.9	0.11	<MDL	<MDL	<MDL
201	MVSM13-F	07/23/01 0833	07/24/01 0821	1428	23.8	0.11	<MDL	<MDL	<MDL
202	MVSM13-B	07/23/01 0833	07/24/01 0821	1428	23.8	0.11	<MDL	<MDL	<MDL
203	MVSM13-FC	07/23/01 0838	07/24/01 0837	1439	24.0	0.11	<MDL	<MDL	<MDL
204	MVSM13-BC	07/23/01 0838	07/24/01 0837	1439	24.0	0.11	<MDL	<MDL	<MDL
205	VSDM13-F	07/23/01 0909	07/24/01 0859	1430	23.8	0.11	<MDL	<MDL	<MDL
206	VSDM13-B	07/23/01 0909	07/24/01 0859	1430	23.8	0.11	<MDL	<MDL	<MDL
207	VSDM13-FC	07/23/01 0914	07/24/01 0912	1438	24.0	0.11	<MDL	<MDL	<MDL
208	VSDM13-BC	07/23/01 0914	07/24/01 0912	1438	24.0	0.11	<MDL	<MDL	<MDL
209	ARVM13-F	07/23/01 0944	07/24/01 0934	1430	23.8	0.11	<MDL	<MDL	<MDL
210	ARVM13-B	07/23/01 0944	07/24/01 0934	1430	23.8	0.11	<MDL	<MDL	<MDL
211	ARVM13-FC	07/23/01 0951	07/24/01 0950	1439	24.0	0.11	<MDL	<MDL	<MDL
212	ARVM13-BC	07/23/01 0951	07/24/01 0950	1439	24.0	0.11	<MDL	<MDL	<MDL
213	METM13-F	07/23/01 1034	07/24/01 1026	1432	23.9	0.12	<MDL	<MDL	<MDL
214	METM13-B	07/23/01 1034	07/24/01 1026	1432	23.9	0.12	<MDL	<MDL	<MDL
215	METM13-FC	07/23/01 1042	07/24/01 1043	1441	24.0	0.11	<MDL	<MDL	<MDL
216	METM13-BC	07/23/01 1042	07/24/01 1043	1441	24.0	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25<sup>0</sup>C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
217	ARBM14-F	07/24/01 0611	07/25/01 0617	1446	24.1	0.11	<MDL	<MDL	<MDL
218	ARBM14-B	07/24/01 0611	07/25/01 0617	1446	24.1	0.11	<MDL	<MDL	<MDL
219	CRSM14-F	07/24/01 0713	07/25/01 0655	1422	23.7	0.11	<MDL	<MDL	<MDL
220	CRSM14-B	07/24/01 0713	07/25/01 0655	1422	23.7	0.11	<MDL	<MDL	<MDL
221	MVSM14-F	07/24/01 0825	07/25/01 0747	1402	23.4	0.11	<MDL	<MDL	<MDL
222	MVSM14-B	07/24/01 0825	07/25/01 0747	1402	23.4	0.11	<MDL	<MDL	<MDL
223	VSDM14-F	07/24/01 0903	07/25/01 0824	1401	23.3	0.11	<MDL	<MDL	<MDL
224	VSDM14-B	07/24/01 0903	07/25/01 0824	1401	23.3	0.11	<MDL	<MDL	<MDL
225	ARVM14-F	07/24/01 0939	07/25/01 0845	1386	23.1	0.10	<MDL	<MDL	<MDL
226	ARVM14-B	07/24/01 0939	07/25/01 0845	1386	23.1	0.10	<MDL	<MDL	<MDL
227	METM14-F	07/24/01 1031	07/25/01 0932	1381	23.0	Inv	NA	NA	NA
228	METM14-B	07/24/01 1031	07/25/01 0932	1381	23.0	Inv	NA	NA	NA
229	ARBM15-F	07/29/01 0654	07/30/01 0610	1396	23.3	0.10	<MDL	<MDL	<MDL
230	ARBM15-B	07/29/01 0654	07/30/01 0610	1396	23.3	0.10	<MDL	<MDL	<MDL
231	CRSM15-F	07/29/01 0746	07/30/01 0720	1414	23.6	0.11	<MDL	<MDL	<MDL
232	CRSM15-B	07/29/01 0746	07/30/01 0720	1414	23.6	0.11	<MDL	<MDL	<MDL
233	MVSM15-F	07/29/01 0848	07/30/01 0835	1427	23.8	0.11	<MDL	<MDL	<MDL
234	MVSM15-B	07/29/01 0848	07/30/01 0835	1427	23.8	0.11	<MDL	<MDL	<MDL
235	VSDM15-F	07/29/01 0928	07/30/01 0917	1429	23.8	0.11	<MDL	<MDL	<MDL
236	VSDM15-B	07/29/01 0928	07/30/01 0917	1429	23.8	0.11	<MDL	<MDL	<MDL
237	ARVM15-F	07/29/01 1004	07/30/01 0954	1430	23.8	0.11	<MDL	<MDL	<MDL
238	ARVM15-B	07/29/01 1004	07/30/01 0954	1430	23.8	0.11	<MDL	<MDL	<MDL
239	METM15-F	07/29/01 1101	07/30/01 1054	1433	23.9	0.11	<MDL	<MDL	<MDL
240	METM15-B	07/29/01 1101	07/30/01 1054	1433	23.9	0.11	<MDL	<MDL	<MDL
242	ARBM16-F	07/30/01 0625	07/31/01 0604	1419	23.7	0.11	<MDL	<MDL	<MDL
243	ARBM16-B	07/30/01 0625	07/31/01 0604	1419	23.7	0.11	<MDL	<MDL	<MDL
244	ARBM16-FC	07/30/01 0631	07/31/01 0618	1427	23.8	0.11	<MDL	<MDL	<MDL
245	ARBM16-BC	07/30/01 0631	07/31/01 0618	1427	23.8	0.11	<MDL	<MDL	<MDL
246	CRSM16-F	07/30/01 0734	07/31/01 0712	1418	23.6	0.11	<MDL	<MDL	<MDL
247	CRSM16-B	07/30/01 0734	07/31/01 0712	1418	23.6	0.11	<MDL	<MDL	<MDL
248	CRSM16-FC	07/30/01 0742	07/31/01 0724	1422	23.7	0.11	<MDL	<MDL	<MDL
249	CRSM16-BC	07/30/01 0742	07/31/01 0724	1422	23.7	0.11	<MDL	<MDL	<MDL
250	MVSM16-F	07/30/01 0849	07/31/01 0830	1421	23.7	0.11	<MDL	<MDL	<MDL
251	MVSM16-B	07/30/01 0849	07/31/01 0830	1421	23.7	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
252	MVSM16-FC	07/30/01 0853	07/31/01 0841	1428	23.8	0.11	<MDL	<MDL	<MDL
253	MVSM16-BC	07/30/01 0853	07/31/01 0841	1428	23.8	0.11	<MDL	<MDL	<MDL
254	VSDM16-F	07/30/01 0926	07/31/01 0915	1429	23.8	0.11	<MDL	<MDL	<MDL
255	VSDM16-B	07/30/01 0926	07/31/01 0915	1429	23.8	0.11	<MDL	<MDL	<MDL
256	VSDM16-FC	07/30/01 0932	07/31/01 0932	1440	24.0	0.12	<MDL	<MDL	<MDL
257	VSDM16-BC	07/30/01 0932	07/31/01 0932	1440	24.0	0.12	<MDL	<MDL	<MDL
258	ARVM16-F	07/30/01 1005	07/31/01 1000	1435	23.9	0.11	<MDL	<MDL	<MDL
259	ARVM16-B	07/30/01 1005	07/31/01 1000	1435	23.9	0.11	<MDL	<MDL	<MDL
260	ARVM16-FC	07/30/01 1012	07/31/01 1010	1438	24.0	0.11	<MDL	<MDL	<MDL
261	ARVM16-BC	07/30/01 1012	07/31/01 1010	1438	24.0	0.11	<MDL	<MDL	<MDL
262	METM16-F	07/30/01 1102	07/31/01 1055	1433	23.9	0.11	<MDL	<MDL	<MDL
263	METM16-B	07/30/01 1102	07/31/01 1055	1433	23.9	0.11	<MDL	<MDL	<MDL
264	METM16-FC	07/30/01 1112	07/31/01 1105	1433	23.9	0.11	<MDL	<MDL	<MDL
265	METM16-BC	07/30/01 1112	07/31/01 1105	1433	23.9	0.11	<MDL	<MDL	<MDL
266	ARBM17-F	07/31/01 0626	08/01/01 0622	1436	23.9	0.11	<MDL	<MDL	<MDL
267	ARBM17-B	07/31/01 0626	08/01/01 0622	1436	23.9	0.11	<MDL	<MDL	<MDL
268	CRSM17-F	07/31/01 0729	08/01/01 0720	1431	23.9	0.11	<MDL	<MDL	<MDL
269	CRSM17-B	07/31/01 0729	08/01/01 0720	1431	23.9	0.11	<MDL	<MDL	<MDL
270	MVSM17-F	07/31/01 0848	08/01/01 0822	1414	23.6	0.11	<MDL	<MDL	<MDL
271	MVSM17-B	07/31/01 0848	08/01/01 0822	1414	23.6	0.11	<MDL	<MDL	<MDL
272	VSDM17-F	07/31/01 0938	08/01/01 0854	1396	23.3	0.10	<MDL	<MDL	<MDL
273	VSDM17-B	07/31/01 0938	08/01/01 0854	1396	23.3	0.10	<MDL	<MDL	<MDL
274	ARVM17-F	07/31/01 1017	08/01/01 0925	1388	23.1	0.10	<MDL	<MDL	<MDL
275	ARVM17-B	07/31/01 1017	08/01/01 0925	1388	23.1	0.10	<MDL	<MDL	<MDL
276	METM17-F	07/31/01 1111	08/01/01 1013	1382	23.0	0.10	<MDL	<MDL	<MDL
277	METM17-B	07/31/01 1111	08/01/01 1013	1382	23.0	0.10	<MDL	<MDL	<MDL
278	ARBM18-F	08/01/01 0634	08/02/01 0617	1423	23.7	0.11	<MDL	<MDL	<MDL
279	ARBM18-B	08/01/01 0634	08/02/01 0617	1423	23.7	0.11	<MDL	<MDL	<MDL
280	CRSM18-F	08/01/01 0731	08/02/01 0703	1412	23.5	0.11	<MDL	<MDL	<MDL
281	CRSM18-B	08/01/01 0731	08/02/01 0703	1412	23.5	0.11	<MDL	<MDL	<MDL
282	MVSM18-F	08/01/01 0830	08/02/01 0801	1411	23.5	0.11	<MDL	<MDL	<MDL
283	MVSM18-B	08/01/01 0830	08/02/01 0801	1411	23.5	0.11	<MDL	<MDL	<MDL
284	VSDM18-F	08/01/01 0905	08/02/01 0828	1403	23.4	0.11	<MDL	<MDL	<MDL
285	VSDM18-B	08/01/01 0905	08/02/01 0828	1403	23.4	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
286	ARVM18-F	08/01/01 0934	08/02/01 0851	1397	23.3	0.10	<MDL	<MDL	<MDL
287	ARVM18-B	08/01/01 0934	08/02/01 0851	1397	23.3	0.10	<MDL	<MDL	<MDL
288	METM18-F	08/01/01 1024	08/02/01 0928	1384	23.1	0.10	<MDL	<MDL	<MDL
289	METM18-B	08/01/01 1024	08/02/01 0928	1384	23.1	0.10	<MDL	<MDL	<MDL
290	ARBM19-F	08/06/01 0617	08/07/01 0613	1436	23.9	0.11	<MDL	<MDL	<MDL
291	ARBM19-B	08/06/01 0617	08/07/01 0613	1436	23.9	0.11	<MDL	<MDL	<MDL
293	CRSM19-F	08/06/01 0716	08/07/01 0719	1443	24.0	0.11	<MDL	<MDL	<MDL
294	CRSM19-B	08/06/01 0716	08/07/01 0719	1443	24.0	0.11	<MDL	<MDL	<MDL
295	MVSM19-F	08/06/01 0816	08/07/01 0821	1445	24.1	0.11	<MDL	<MDL	<MDL
296	MVSM19-B	08/06/01 0816	08/07/01 0821	1445	24.1	0.11	<MDL	<MDL	<MDL
297	VSDM19-F	08/06/01 0846	08/07/01 0855	1449	24.2	0.11	<MDL	<MDL	<MDL
298	VSDM19-B	08/06/01 0846	08/07/01 0855	1449	24.2	0.11	<MDL	<MDL	<MDL
299	ARVM19-F	08/06/01 0910	08/07/01 0929	1459	24.3	0.11	<MDL	<MDL	<MDL
300	ARVM19-B	08/06/01 0910	08/07/01 0929	1459	24.3	0.11	<MDL	<MDL	<MDL
301	METM19-F	08/06/01 0957	08/07/01 1013	1456	24.3	0.11	<MDL	<MDL	<MDL
302	METM19-B	08/06/01 0957	08/07/01 1013	1456	24.3	0.11	<MDL	<MDL	<MDL
303	ARBM20-F	08/07/01 0617	08/08/01 0613	1436	23.9	0.11	<MDL	<MDL	<MDL
304	ARBM20-B	08/07/01 0617	08/08/01 0613	1436	23.9	0.11	<MDL	<MDL	<MDL
305	ARBM20-FC	08/07/01 0634	08/08/01 0627	1433	23.9	0.11	<MDL	<MDL	<MDL
306	ARBM20-BC	08/07/01 0634	08/08/01 0627	1433	23.9	0.11	<MDL	<MDL	<MDL
307	CRSM20-F	08/07/01 0723	08/08/01 0708	1425	23.8	0.11	<MDL	<MDL	<MDL
308	CRSM20-B	08/07/01 0723	08/08/01 0708	1425	23.8	0.11	<MDL	<MDL	<MDL
309	CRSM20-FC	08/07/01 0736	08/08/01 0726	1430	23.8	0.11	<MDL	<MDL	<MDL
310	CRSM20-BC	08/07/01 0736	08/08/01 0726	1430	23.8	0.11	<MDL	<MDL	<MDL
311	MVSM20-F	08/07/01 0826	08/08/01 0814	1428	23.8	0.11	<MDL	<MDL	<MDL
312	MVSM20-B	08/07/01 0826	08/08/01 0814	1428	23.8	0.11	<MDL	<MDL	<MDL
313	MVSM20-FC	08/07/01 0838	08/08/01 0833	1435	23.9	0.11	<MDL	<MDL	<MDL
314	MVSM20-BC	08/07/01 0838	08/08/01 0833	1435	23.9	0.11	<MDL	<MDL	<MDL
315	VSDM20-F	08/07/01 0900	08/08/01 0853	1433	23.9	0.11	<MDL	<MDL	<MDL
316	VSDM20-B	08/07/01 0900	08/08/01 0853	1433	23.9	0.11	<MDL	<MDL	<MDL
317	VSDM20-FC	08/07/01 0909	08/08/01 0909	1440	24.0	0.11	<MDL	<MDL	<MDL
318	VSDM20-BC	08/07/01 0909	08/08/01 0909	1440	24.0	0.11	<MDL	<MDL	<MDL
319	ARVM20-F	08/07/01 0933	08/08/01 0933	1440	24.0	0.11	<MDL	<MDL	<MDL
320	ARVM20-B	08/07/01 0933	08/08/01 0933	1440	24.0	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
321	ARVM20-FC	08/07/01 0941	08/08/01 0947	1446	24.1	0.11	<MDL	<MDL	<MDL
322	ARVM20-BC	08/07/01 0941	08/08/01 0947	1446	24.1	0.11	<MDL	<MDL	<MDL
323	METM20-F	08/07/01 1019	08/08/01 1021	1442	24.0	0.11	<MDL	<MDL	<MDL
324	METM20-B	08/07/01 1019	08/08/01 1021	1442	24.0	0.11	<MDL	<MDL	<MDL
325	METM20FC	08/07/01 1029	08/08/01 1034	1445	24.1	0.11	<MDL	<MDL	<MDL
326	METM20BC	08/07/01 1029	08/08/01 1034	1445	24.1	0.11	<MDL	<MDL	<MDL
328	ARBM21F	08/08/01 0625	08/09/01 0614	1429	23.8	0.11	<MDL	<MDL	<MDL
329	ARBM21B	08/08/01 0625	08/09/01 0614	1429	23.8	0.11	<MDL	<MDL	<MDL
330	CRSM21F	08/08/01 0722	08/09/01 0709	1427	23.8	0.11	<MDL	<MDL	<MDL
331	CRSM21B	08/08/01 0722	08/09/01 0709	1427	23.8	0.11	<MDL	<MDL	<MDL
332	MVSM21F	08/08/01 0820	08/09/01 0816	1436	23.9	0.11	<MDL	<MDL	<MDL
333	MVSM21B	08/08/01 0820	08/09/01 0816	1436	23.9	0.11	<MDL	<MDL	<MDL
334	VSDM21F	08/08/01 0906	08/09/01 0851	1425	23.8	0.11	<MDL	<MDL	<MDL
335	VSDM21B	08/08/01 0906	08/09/01 0851	1425	23.8	0.11	<MDL	<MDL	<MDL
336	ARVM21F	08/08/01 0942	08/09/01 0923	1421	23.7	0.11	<MDL	<MDL	<MDL
337	ARVM21B	08/08/01 0942	08/09/01 0923	1421	23.7	0.11	<MDL	<MDL	<MDL
338	METM21F	08/08/01 1032	08/09/01 1010	1418	23.6	0.11	<MDL	<MDL	<MDL
339	METM21B	08/08/01 1032	08/09/01 1010	1418	23.6	0.11	<MDL	<MDL	<MDL
340	ARBM22F	08/09/01 0620	08/10/01 0619	1439	24.0	0.11	<MDL	<MDL	<MDL
341	ARBM22B	08/09/01 0620	08/10/01 0617	1437	24.0	0.11	<MDL	<MDL	<MDL
342	CRSM22F	08/09/01 0714	08/10/01 0700	1426	23.8	0.11	<MDL	<MDL	<MDL
343	CRSM22B	08/09/01 0714	08/10/01 0700	1426	23.8	0.11	<MDL	<MDL	<MDL
344	MVSM22F	08/09/01 0820	08/10/01 0753	1413	23.6	0.11	<MDL	<MDL	<MDL
345	MVSM22B	08/09/01 0820	08/10/01 0753	1413	23.6	0.11	<MDL	<MDL	<MDL
346	VSDM22F	08/09/01 0856	08/10/01 0816	1400	23.3	0.11	<MDL	<MDL	<MDL
347	VSDM22B	08/09/01 0856	08/10/01 0816	1400	23.3	0.11	<MDL	<MDL	<MDL
348	ARVM22F	08/09/01 0929	08/10/01 0836	1387	23.1	0.10	<MDL	<MDL	<MDL
349	ARVM22B	08/09/01 0929	08/10/01 0836	1387	23.1	0.10	<MDL	<MDL	<MDL
350	METM22F	08/09/01 1015	08/10/01 0918	1383	23.0	0.10	<MDL	<MDL	<MDL
351	METM22B	08/09/01 1015	08/10/01 0918	1383	23.0	0.10	<MDL	<MDL	<MDL
352	ARBM23F	08/14/01 0656	08/15/01 0619	1403	23.4	0.11	<MDL	<MDL	<MDL
353	ARBM23B	08/14/01 0656	08/15/01 0619	1403	23.4	0.11	<MDL	<MDL	<MDL
354	CRSM23F	08/14/01 0747	08/15/01 0720	1413	23.5	0.11	<MDL	<MDL	<MDL
355	CRSM23B	08/14/01 0747	08/15/01 0720	1413	23.5	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

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\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

Table 8. MIC Ambient Monitoring Results for Kern County 2001

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
356	MVSM23F	08/14/01 0844	08/15/01 0831	1427	23.8	0.11	<MDL	<MDL	<MDL
357	MVSM23B	08/14/01 0844	08/15/01 0831	1427	23.8	0.11	<MDL	<MDL	<MDL
358	VSDM23F	08/14/01 0912	08/15/01 0912	1440	24.0	0.11	<MDL	<MDL	<MDL
359	VSDM23B	08/14/01 0912	08/15/01 0912	1440	24.0	0.11	<MDL	<MDL	<MDL
360	ARVM23F	08/14/01 0943	08/15/01 0951	1448	24.1	0.11	<MDL	<MDL	<MDL
361	ARVM23B	08/14/01 0943	08/15/01 0951	1448	24.1	0.11	<MDL	<MDL	<MDL
362	METM23F	08/14/01 1024	08/15/01 1044	1460	24.3	0.11	<MDL	<MDL	<MDL
363	METM23B	08/14/01 1024	08/15/01 1044	1460	24.3	0.11	<MDL	<MDL	<MDL
365	ARBM24F	08/15/01 0630	08/16/01 0619	1429	23.8	0.11	<MDL	<MDL	<MDL
366	ARBM24B	08/15/01 0630	08/16/01 0619	1429	23.8	0.11	<MDL	<MDL	<MDL
367	ARBM24FC	08/15/01 0638	08/16/01 0629	1431	23.9	0.11	<MDL	<MDL	<MDL
368	ARBM24BC	08/15/01 0638	08/16/01 0629	1431	23.9	0.11	<MDL	<MDL	<MDL
369	CRSM24F	08/15/01 0736	08/16/01 0720	1424	23.7	0.11	<MDL	<MDL	<MDL
370	CRSM24B	08/15/01 0736	08/16/01 0720	1424	23.7	0.11	<MDL	<MDL	<MDL
371	CRSM24FC	08/15/01 0742	08/16/01 0730	1428	23.8	0.11	<MDL	<MDL	<MDL
372	CRSM24BC	08/15/01 0742	08/16/01 0730	1428	23.8	0.11	<MDL	<MDL	<MDL
373	MVSM24F	08/15/01 0843	08/16/01 0828	1425	23.8	0.11	<MDL	<MDL	<MDL
374	MVSM24B	08/15/01 0843	08/16/01 0828	1425	23.8	0.11	<MDL	<MDL	<MDL
375	MVSM24FC	08/15/01 0848	08/16/01 0837	1429	23.8	0.11	<MDL	<MDL	<MDL
376	MVSM24BC	08/15/01 0848	08/16/01 0837	1429	23.8	0.11	<MDL	<MDL	<MDL
377	VSDM24F	08/15/01 0924	08/16/01 0912	1428	23.8	0.11	<MDL	<MDL	<MDL
378	VSDM24B	08/15/01 0924	08/16/01 0912	1428	23.8	0.11	<MDL	<MDL	<MDL
379	VSDM24FC	08/15/01 0929	08/16/01 0921	1432	23.9	0.11	<MDL	<MDL	<MDL
380	VSDM24BC	08/15/01 0929	08/16/01 0921	1432	23.9	0.11	<MDL	<MDL	<MDL
381	ARVM24F	08/15/01 1002	08/16/01 0949	1427	23.8	0.11	<MDL	<MDL	<MDL
382	ARVM24B	08/15/01 1002	08/16/01 0949	1427	23.8	0.11	<MDL	<MDL	<MDL
383	ARVM24FC	08/15/01 1007	08/16/01 0957	1430	23.8	0.11	<MDL	<MDL	<MDL
384	ARVM24BC	08/15/01 1007	08/16/01 0957	1430	23.8	0.11	<MDL	<MDL	<MDL
385	METM24F	08/15/01 1055	08/16/01 1044	1429	23.8	0.11	<MDL	<MDL	<MDL
386	METM24B	08/15/01 1055	08/16/01 1044	1429	23.8	0.11	<MDL	<MDL	<MDL
387	METM24FC	08/15/01 1100	08/16/01 1052	1432	23.9	0.11	<MDL	<MDL	<MDL
388	METM24BC	08/15/01 1100	08/16/01 1052	1432	23.9	0.11	<MDL	<MDL	<MDL
389	ARBM25F	08/16/01 0635	08/17/01 0625	1430	23.8	0.11	<MDL	<MDL	<MDL
390	ARBM25B	08/16/01 0635	08/17/01 0625	1430	23.8	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

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\*pptv at 1atm and 25°C

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**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
391	CRSM25F	08/16/01 0737	08/17/01 0723	1426	23.8	0.11	<MDL	<MDL	<MDL
392	CRSM25B	08/16/01 0737	08/17/01 0723	1426	23.8	0.11	<MDL	<MDL	<MDL
393	MVSM25F	08/16/01 0844	08/17/01 0821	1417	23.6	0.11	<MDL	<MDL	<MDL
394	MVSM25B	08/16/01 0844	08/17/01 0821	1417	23.6	0.11	<MDL	<MDL	<MDL
395	VSDM25F	08/16/01 0927	08/17/01 0853	1406	23.4	0.11	<MDL	<MDL	<MDL
396	VSDM25B	08/16/01 0927	08/17/01 0853	1406	23.4	0.11	<MDL	<MDL	<MDL
397	ARVM25F	08/16/01 1004	08/17/01 0923	1399	23.3	0.10	<MDL	<MDL	<MDL
398	ARVM25B	08/16/01 1004	08/17/01 0923	1399	23.3	0.10	<MDL	<MDL	<MDL
399	METM25F	08/16/01 1059	08/17/01 1009	1390	23.2	0.10	<MDL	<MDL	<MDL
400	METM25B	08/16/01 1059	08/17/01 1009	1390	23.2	0.10	<MDL	<MDL	<MDL
401	ARBM26F	08/17/01 0639	08/18/01 0626	1427	23.8	0.11	<MDL	<MDL	<MDL
402	ARBM26B	08/17/01 0639	08/18/01 0626	1427	23.8	0.11	<MDL	<MDL	<MDL
403	CRSM26F	08/17/01 0733	08/18/01 0712	1419	23.7	0.11	<MDL	<MDL	<MDL
404	CRSM26B	08/17/01 0733	08/18/01 0712	1419	23.7	0.11	<MDL	<MDL	<MDL
405	MVSM26F	08/17/01 0832	08/18/01 0803	1411	23.5	0.11	<MDL	<MDL	<MDL
406	MVSM26B	08/17/01 0832	08/18/01 0803	1411	23.5	0.11	<MDL	<MDL	<MDL
407	VSDM26F	08/17/01 0904	08/18/01 0825	1401	23.3	0.11	<MDL	<MDL	<MDL
408	VSDM26B	08/17/01 0904	08/18/01 0825	1401	23.3	0.11	<MDL	<MDL	<MDL
409	ARVM26F	08/17/01 0933	08/18/01 0848	1395	23.3	0.10	<MDL	<MDL	<MDL
410	ARVM26B	08/17/01 0933	08/18/01 0848	1395	23.3	0.10	<MDL	<MDL	<MDL
411	METM26F	08/17/01 1020	08/18/01 0934	1394	23.2	0.10	<MDL	<MDL	<MDL
412	METM26B	08/17/01 1020	08/18/01 0934	1394	23.2	0.10	<MDL	<MDL	<MDL
413	ARBM27F	08/22/01 0627	08/23/01 0604	1417	23.6	0.11	<MDL	<MDL	<MDL
414	ARBM27B	08/22/01 0627	08/23/01 0604	1417	23.6	0.11	<MDL	<MDL	<MDL
415	CRSM27F	08/22/01 0715	08/23/01 0713	1438	24.0	0.11	<MDL	<MDL	<MDL
416	CRSM27B	08/22/01 0715	08/23/01 0713	1438	24.0	0.11	<MDL	<MDL	<MDL
417	MVSM27F	08/22/01 0814	08/23/01 0818	1444	24.1	0.11	<MDL	<MDL	<MDL
418	MVSM27B	08/22/01 0814	08/23/01 0818	1444	24.1	0.11	<MDL	<MDL	<MDL
419	VSDM27F	08/22/01 0840	08/23/01 0900	1460	24.3	0.11	<MDL	<MDL	<MDL
420	VSDM27B	08/22/01 0840	08/23/01 0900	1460	24.3	0.11	<MDL	<MDL	<MDL
421	ARVM27F	08/22/01 0905	08/23/01 0941	1476	24.6	0.11	<MDL	<MDL	<MDL
422	ARVM27B	08/22/01 0905	08/23/01 0941	1476	24.6	0.11	<MDL	<MDL	<MDL
423	METM27F	08/22/01 0948	08/23/01 1034	1486	24.8	0.11	<MDL	<MDL	<MDL
424	METM27B	08/22/01 0948	08/23/01 1034	1486	24.8	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

Table 8. MIC Ambient Monitoring Results for Kern County 2001

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
427	ARBM28F	08/23/01 0625	08/24/01 0625	1440	24.0	0.11	<MDL	<MDL	<MDL
428	ARBM28B	08/23/01 0625	08/24/01 0625	1440	24.0	0.11	<MDL	<MDL	<MDL
429	CRSM28F	08/23/01 0724	08/24/01 0712	1428	23.8	0.11	<MDL	<MDL	<MDL
430	CRSM28B	08/23/01 0724	08/24/01 0712	1428	23.8	0.11	<MDL	<MDL	<MDL
431	MVSM28F	08/23/01 0830	08/24/01 0815	1425	23.8	0.11	<MDL	<MDL	<MDL
432	MVSM28B	08/23/01 0830	08/24/01 0815	1425	23.8	0.11	<MDL	<MDL	<MDL
433	VSDM28F	08/23/01 0911	08/24/01 0849	1418	23.6	0.11	<MDL	<MDL	<MDL
434	VSDM28B	08/23/01 0911	08/24/01 0849	1418	23.6	0.11	<MDL	<MDL	<MDL
435	ARVM28F	08/23/01 0953	08/24/01 0925	1412	23.5	0.11	<MDL	<MDL	<MDL
436	ARVM28B	08/23/01 0953	08/24/01 0925	1412	23.5	0.11	<MDL	<MDL	<MDL
437	METM28F	08/23/01 1047	08/24/01 1024	1417	23.6	0.11	<MDL	<MDL	<MDL
438	METM28B	08/23/01 1047	08/24/01 1024	1417	23.6	0.11	<MDL	<MDL	<MDL
441	ARBM29F	08/24/01 0617	08/25/01 0611	1434	23.9	0.11	DET	DET	DET
442	ARBM29B	08/24/01 0617	08/25/01 0611	1434	23.9	0.11	<MDL	<MDL	<MDL
443	ARBM29FC	08/24/01 0629	08/25/01 0625	1436	23.9	0.11	DET	DET	DET
444	ARBM29BC	08/24/01 0629	08/25/01 0625	1436	23.9	0.11	<MDL	<MDL	<MDL
445	CRSM29F	08/24/01 0718	08/25/01 0703	1425	23.7	0.11	<MDL	<MDL	<MDL
446	CRSM29B	08/24/01 0718	08/25/01 0703	1425	23.7	0.11	<MDL	<MDL	<MDL
447	CRSM29FC	08/24/01 0728	08/25/01 0719	1431	23.8	0.11	<MDL	<MDL	<MDL
448	CRSM29BC	08/24/01 0728	08/25/01 0719	1431	23.8	0.11	<MDL	<MDL	<MDL
449	MVSM29F	08/24/01 0820	08/25/01 0814	1434	23.9	0.11	<MDL	<MDL	<MDL
450	MVSM29B	08/24/01 0820	08/25/01 0814	1434	23.9	0.11	<MDL	<MDL	<MDL
451	MVSM29FC	08/24/01 0831	08/25/01 0831	1440	24.0	0.11	<MDL	<MDL	<MDL
452	MVSM29BC	08/24/01 0831	08/25/01 0831	1440	24.0	0.11	<MDL	<MDL	<MDL
453	VSDM29F	08/24/01 0853	08/25/01 0854	1441	24.0	0.11	<MDL	<MDL	<MDL
454	VSDM29B	08/24/01 0853	08/25/01 0854	1441	24.0	0.11	<MDL	<MDL	<MDL
455	VSDM29FC	08/24/01 0904	08/25/01 0907	1443	24.0	0.11	<MDL	<MDL	<MDL
456	VSDM29BC	08/24/01 0904	08/25/01 0907	1443	24.0	0.11	<MDL	<MDL	<MDL
457	ARVM29F	08/24/01 0929	08/25/01 0928	1439	24.0	0.11	<MDL	<MDL	<MDL
458	ARVM29B	08/24/01 0929	08/25/01 0928	1439	24.0	0.11	<MDL	<MDL	<MDL
459	ARVM29FC	08/24/01 0939	08/25/01 0941	1442	24.0	0.11	<MDL	<MDL	<MDL
460	ARVM29BC	08/24/01 0939	08/25/01 0941	1442	24.0	0.11	<MDL	<MDL	<MDL
461	METM29F	08/24/01 1029	08/25/01 1022	1433	23.9	0.11	<MDL	<MDL	<MDL
462	METM29B	08/24/01 1029	08/25/01 1022	1433	23.9	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25°C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
463	METM29FC	08/24/01 1040	08/25/01 1038	1438	24.0	0.11	<MDL	<MDL	<MDL
464	METM29BC	08/24/01 1040	08/25/01 1038	1438	24.0	0.11	<MDL	<MDL	<MDL
465	ARBM30F	08/25/01 0621	08/26/01 0620	1439	24.0	0.11	<MDL	<MDL	<MDL
466	ARBM30B	08/25/01 0621	08/26/01 0620	1439	24.0	0.11	<MDL	<MDL	<MDL
467	CRSM30F	08/25/01 0714	08/26/01 0704	1430	23.8	0.11	<MDL	<MDL	<MDL
468	CRSM30B	08/25/01 0714	08/26/01 0704	1430	23.8	0.11	<MDL	<MDL	<MDL
469	MVSM30F	08/25/01 0825	08/26/01 0755	1410	23.5	0.11	<MDL	<MDL	<MDL
470	MVSM30B	08/25/01 0825	08/26/01 0755	1410	23.5	0.11	<MDL	<MDL	<MDL
471	VSDM30F	08/25/01 0903	08/26/01 0820	1397	23.3	0.10	<MDL	<MDL	<MDL
472	VSDM30B	08/25/01 0903	08/26/01 0820	1397	23.3	0.10	<MDL	<MDL	<MDL
473	ARVM30F	08/25/01 0937	08/26/01 0843	1386	23.1	0.10	<MDL	<MDL	<MDL
474	ARVM30B	08/25/01 0937	08/26/01 0843	1386	23.1	0.10	<MDL	<MDL	<MDL
475	METM30F	08/25/01 1033	08/26/01 0933	1380	23.0	0.10	<MDL	<MDL	<MDL
476	METM30B	08/25/01 1033	08/26/01 0933	1380	23.0	0.10	<MDL	<MDL	<MDL
477	ARBM31F	08/28/01 0610	08/29/01 0649	1479	24.7	0.11	<MDL	<MDL	<MDL
478	ARBM31B	08/28/01 0610	08/29/01 0649	1479	24.7	0.11	<MDL	<MDL	<MDL
479	CRSM31F	08/28/01 0704	08/29/01 0743	1479	24.7	0.11	<MDL	<MDL	<MDL
480	CRSM31B	08/28/01 0704	08/29/01 0743	1479	24.7	0.11	<MDL	<MDL	<MDL
481	MVSM31F	08/28/01 0758	08/29/01 0836	1478	24.6	0.11	<MDL	<MDL	<MDL
482	MVSM31B	08/28/01 0758	08/29/01 0836	1478	24.6	0.11	<MDL	<MDL	<MDL
483	VSDM31F	08/28/01 0829	08/29/01 0906	1477	24.6	0.11	<MDL	<MDL	<MDL
484	VSDM31B	08/28/01 0829	08/29/01 0906	1477	24.6	0.11	<MDL	<MDL	<MDL
485	ARVM31F	08/28/01 0912	08/29/01 0934	1462	24.4	0.11	<MDL	<MDL	<MDL
486	ARVM31B	08/28/01 0912	08/29/01 0934	1462	24.4	0.11	<MDL	<MDL	<MDL
487	METM31F	08/28/01 0955	08/29/01 1026	1471	24.5	0.11	<MDL	<MDL	<MDL
488	METM31B	08/28/01 0955	08/29/01 1026	1471	24.5	0.11	<MDL	<MDL	<MDL
489	ARBM32F	08/29/01 0658	08/30/01 0636	1418	23.6	0.11	<MDL	<MDL	<MDL
490	ARBM32B	08/29/01 0658	08/30/01 0636	1418	23.6	0.11	<MDL	<MDL	<MDL
491	CRSM32F	08/29/01 0751	08/30/01 0734	1423	23.7	0.11	<MDL	<MDL	<MDL
492	CRSM32B	08/29/01 0751	08/30/01 0734	1423	23.7	0.11	<MDL	<MDL	<MDL
493	MVSM32F	08/29/01 0845	08/30/01 0829	1424	23.7	0.11	<MDL	<MDL	<MDL
494	MVSM32B	08/29/01 0845	08/30/01 0829	1424	23.7	0.11	<MDL	<MDL	<MDL
495	VSDM32F	08/29/01 0915	08/30/01 0906	1431	23.9	0.11	<MDL	<MDL	<MDL
496	VSDM32B	08/29/01 0915	08/30/01 0906	1431	23.9	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

\*pptv at 1atm and 25<sup>0</sup>C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 8. MIC Ambient Monitoring Results for Kern County 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m <sup>3</sup> )	MIC		
							(ug/sample)	(ug/m <sup>3</sup> )	*(pptv)
497	ARVM32F	08/29/01 0945	08/30/01 0934	1429	23.8	0.11	<MDL	<MDL	<MDL
498	ARVM32B	08/29/01 0945	08/30/01 0934	1429	23.8	0.11	<MDL	<MDL	<MDL
499	METM32F	08/29/01 1036	08/30/01 1016	1420	23.7	0.12	<MDL	<MDL	<MDL
500	METM32B	08/29/01 1036	08/30/01 1016	1420	23.7	0.12	<MDL	<MDL	<MDL
502	ARBM33F	08/30/01 0649	08/31/01 0616	1407	23.4	0.11	<MDL	<MDL	<MDL
503	ARBM33B	08/30/01 0649	08/31/01 0616	1407	23.4	0.11	<MDL	<MDL	<MDL
504	CRSM33F	08/30/01 0742	08/31/01 0704	1402	23.4	0.11	<MDL	<MDL	<MDL
505	CRSM33B	08/30/01 0742	08/31/01 0704	1402	23.4	0.11	<MDL	<MDL	<MDL
506	MVSM33F	08/30/01 0841	08/31/01 0800	1399	23.3	0.10	<MDL	<MDL	<MDL
507	MVSM33B	08/30/01 0841	08/31/01 0800	1399	23.3	0.10	<MDL	<MDL	<MDL
508	VSDM33F	08/30/01 0914	08/31/01 0836	1402	23.4	0.11	<MDL	<MDL	<MDL
509	VSDM33B	08/30/01 0914	08/31/01 0836	1402	23.4	0.11	<MDL	<MDL	<MDL
510	ARVM33F	08/30/01 0942	08/31/01 0910	1408	23.5	0.11	<MDL	<MDL	<MDL
511	ARVM33B	08/30/01 0942	08/31/01 0910	1408	23.5	0.11	<MDL	<MDL	<MDL
512	METM33F	08/30/01 1027	08/31/01 1021	1434	23.9	0.11	<MDL	<MDL	<MDL
513	METM33B	08/30/01 1027	08/31/01 1021	1434	23.9	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but  $\geq$ MDL.

\*pptv at 1atm and 25<sup>0</sup>C

Inv=Invalid sample due to the sampling flow rate outside the control limit.

NA =Not applicable

**Table 9. Summary of MIC Results for Kern County 2001 (ug/m<sup>3</sup>)**

Start Date	ARB	ARV	CRS	MET	MVS	VSD
06/30/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
06/30/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/01/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/01/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/02/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/02/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/06/01 F	DET	<MDL	DET	<MDL	DET	<MDL
07/06/01 B	DET	<MDL	<MDL	<MDL	<MDL	<MDL
07/07/01 F	DET	DET	DET	DET	DET	DET
07/07/01 B	DET	<MDL	<MDL	<MDL	<MDL	<MDL
07/08/01 F	DET	DET	DET	DET	<MDL	DET
07/08/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/13/01 F	<MDL	<MDL	<MDL	NA	DET	<MDL
07/13/01 B	<MDL	<MDL	<MDL	NA	<MDL	<MDL
07/14/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/14/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/15/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/15/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/16/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/16/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/21/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/21/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/22/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/22/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/23/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/23/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/24/01 F	<MDL	<MDL	<MDL	NA	<MDL	<MDL
07/24/01 B	<MDL	<MDL	<MDL	NA	<MDL	<MDL
07/29/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/29/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/30/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/30/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/31/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
07/31/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/01/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/01/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/06/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/06/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/07/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/07/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/08/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/08/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/09/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/09/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/14/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/14/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/15/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/15/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/16/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

**Table 9. Summary of MIC Results for Kern County 2001 (ug/m<sup>3</sup>)**

Start Date	ARB	ARV	CRS	MET	MVS	VSD
08/16/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/17/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/17/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/22/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/22/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/23/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/23/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/24/01 F	DET	<MDL	<MDL	<MDL	<MDL	<MDL
08/24/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/25/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/25/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/28/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/28/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/29/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/29/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/30/01 F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
08/30/01 B	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

<b>Maximum</b>	DET	DET	DET	DET	DET	DET
<b>Average</b>	6.1E-02	4.8E-02	5.1E-02	4.9E-02	5.1E-02	4.8E-02
<b># Valid Sample</b>	66	66	66	62	66	66
<b># &gt;EQL</b>	0	0	0	0	0	0
<b># DET</b>	6	2	3	2	3	2
<b># &lt;MDL</b>	60	64	63	60	63	64

Only the higher value of each collocated pair was listed in the table.

<MDL results were factored in as  $MDL/2 = 0.042 \text{ ug/m}^3$

DET results were factored in as  $(EQL+MDL)/2 = 0.25 \text{ ug/m}^3$

**Table 10. MIC Collocated Results for Kern County 2001**

Sample ID	Start Date	MIC			Sample ID	Start Date	MIC		
		(ug/m <sup>3</sup> )	Ave.	Rel%D			(ug/m <sup>3</sup> )	Ave.	Rel%D
ARBM3-B	07/02/01	<MDL			ARBM16-B	07/30/01	<MDL		
ARBM3-BC	07/02/01	<MDL	<MDL	NA	ARBM16-BC	07/30/01	<MDL	<MDL	NA
ARBM3-F	07/02/01	<MDL			ARBM16-F	07/30/01	<MDL		
ARBM3-FC	07/02/01	<MDL	<MDL	NA	ARBM16-FC	07/30/01	<MDL	<MDL	NA
CRSM3-B	07/02/01	<MDL			CRSM16-B	07/30/01	<MDL		
CRSM3-BC	07/02/01	<MDL	<MDL	NA	CRSM16-BC	07/30/01	<MDL	<MDL	NA
CRSM3-F	07/02/01	<MDL			CRSM16-F	07/30/01	<MDL		
CRSM3-FC	07/02/01	<MDL	<MDL	NA	CRSM16-FC	07/30/01	<MDL	<MDL	NA
MVSM3-B	07/02/01	<MDL			MVSM16-B	07/30/01	<MDL		
MVSM3-BC	07/02/01	<MDL	<MDL	NA	MVSM16-BC	07/30/01	<MDL	<MDL	NA
MVSM3-F	07/02/01	<MDL			MVSM16-F	07/30/01	<MDL		
MVSM3-FC	07/02/01	<MDL	<MDL	NA	MVSM16-FC	07/30/01	<MDL	<MDL	NA
VSDM3-B	07/02/01	<MDL			VSDM16-B	07/30/01	<MDL		
VSDM3-BC	07/02/01	<MDL	<MDL	NA	VSDM16-BC	07/30/01	<MDL	<MDL	NA
VSDM3-F	07/02/01	<MDL			VSDM16-F	07/30/01	<MDL		
VSDM3-FC	07/02/01	<MDL	<MDL	NA	VSDM16-FC	07/30/01	<MDL	<MDL	NA
ARVM3-B	07/02/01	<MDL			ARVM16-B	07/30/01	<MDL		
ARVM3-BC	07/02/01	<MDL	<MDL	NA	ARVM16-BC	07/30/01	<MDL	<MDL	NA
ARVM3-F	07/02/01	<MDL			ARVM16-F	07/30/01	<MDL		
ARVM3-FC	07/02/01	<MDL	<MDL	NA	ARVM16-FC	07/30/01	<MDL	<MDL	NA
METM3-B	07/02/01	<MDL			METM16-B	07/30/01	<MDL		
METM3-BC	07/02/01	<MDL	<MDL	NA	METM16-BC	07/30/01	<MDL	<MDL	NA
METM3-F	07/02/01	<MDL			METM16-F	07/30/01	<MDL		
METM3-FC	07/02/01	<MDL	<MDL	NA	METM16-FC	07/30/01	<MDL	<MDL	NA
ARBM5-B	07/07/01	<MDL			ARBM20-B	08/07/01	<MDL		
ARBM5-BC	07/07/01	DET	DET	NA	ARBM20-BC	08/07/01	<MDL	<MDL	NA
ARBM5-F	07/07/01	<MDL			ARBM20-F	08/07/01	<MDL		
ARBM5-FC	07/07/01	DET	DET	NA	ARBM20-FC	08/07/01	<MDL	<MDL	NA
CRSM5-B	07/07/01	<MDL			CRSM20-B	08/07/01	<MDL		
CRSM5-BC	07/07/01	<MDL	<MDL	NA	CRSM20-BC	08/07/01	<MDL	<MDL	NA
CRSM5-F	07/07/01	DET			CRSM20-F	08/07/01	<MDL		
CRSM5-FC	07/07/01	DET	DET	NA	CRSM20-FC	08/07/01	<MDL	<MDL	NA
MVSM5-B	07/07/01	<MDL			MVSM20-B	08/07/01	<MDL		
MVSM5-BC	07/07/01	<MDL	<MDL	NA	MVSM20-BC	08/07/01	<MDL	<MDL	NA
MVSM5-F	07/07/01	DET			MVSM20-F	08/07/01	<MDL		
MVSM5-FC	07/07/01	DET	DET	NA	MVSM20-FC	08/07/01	<MDL	<MDL	NA
VSDM5-B	07/07/01	<MDL			VSDM20-B	08/07/01	<MDL		
VSDM5-BC	07/07/01	<MDL	<MDL	NA	VSDM20-BC	08/07/01	<MDL	<MDL	NA
VSDM5-F	07/07/01	DET			VSDM20-F	08/07/01	<MDL		
VSDM5-FC	07/07/01	DET	DET	NA	VSDM20-FC	08/07/01	<MDL	<MDL	NA
ARVM5-B	07/07/01	<MDL			ARVM20-B	08/07/01	<MDL		
ARVM5-BC	07/07/01	<MDL	<MDL	NA	ARVM20-BC	08/07/01	<MDL	<MDL	NA
ARVM5-F	07/07/01	DET			ARVM20-F	08/07/01	<MDL		
ARVM5-FC	07/07/01	DET	DET	NA	ARVM20-FC	08/07/01	<MDL	<MDL	NA
METM5-B	07/07/01	<MDL			METM20-B	08/07/01	<MDL		
METM5-BC	07/07/01	<MDL	<MDL	NA	METM20-BC	08/07/01	<MDL	<MDL	NA
METM5-F	07/07/01	DET			METM20-F	08/07/01	<MDL		
METM5-FC	07/07/01	DET	DET	NA	METM20-FC	08/07/01	<MDL	<MDL	NA

**Table 10. MIC Collocated Results for Kern County 2001**

Sample ID	Start Date	MIC			Sample ID	Start Date	MIC		
		(ug/m <sup>3</sup> )	Ave.	Rel%D			(ug/m <sup>3</sup> )	Ave.	Rel%D
ARBM8-B	07/14/01	<MDL			ARBM24B	08/15/01	<MDL		
ARBM8-BC	07/14/01	<MDL	<MDL	NA	ARBM24BC	08/15/01	<MDL	<MDL	NA
ARBM8-F	07/14/01	<MDL			ARBM24F	08/15/01	<MDL		
ARBM8-FC	07/14/01	<MDL	<MDL	NA	ARBM24FC	08/15/01	<MDL	<MDL	NA
CRSM8-B	07/14/01	<MDL			CRSM24B	08/15/01	<MDL		
CRSM8-BC	07/14/01	<MDL	<MDL	NA	CRSM24BC	08/15/01	<MDL	<MDL	NA
CRSM8-F	07/14/01	<MDL			CRSM24F	08/15/01	<MDL		
CRSM8-FC	07/14/01	<MDL	<MDL	NA	CRSM24FC	08/15/01	<MDL	<MDL	NA
MVSM8-B	07/14/01	<MDL			MVSM24B	08/15/01	<MDL		
MVSM8-BC	07/14/01	<MDL	<MDL	NA	MVSM24BC	08/15/01	<MDL	<MDL	NA
MVSM8-F	07/14/01	<MDL			MVSM24F	08/15/01	<MDL		
MVSM8-FC	07/14/01	<MDL	<MDL	NA	MVSM24FC	08/15/01	<MDL	<MDL	NA
VSDM8-B	07/14/01	<MDL			VSDM24B	08/15/01	<MDL		
VSDM8-BC	07/14/01	<MDL	<MDL	NA	VSDM24BC	08/15/01	<MDL	<MDL	NA
VSDM8-F	07/14/01	<MDL			VSDM24F	08/15/01	<MDL		
VSDM8-FC	07/14/01	<MDL	<MDL	NA	VSDM24FC	08/15/01	<MDL	<MDL	NA
ARVM8-B	07/14/01	<MDL			ARVM24B	08/15/01	<MDL		
ARVM8-BC	07/14/01	<MDL	<MDL	NA	ARVM24BC	08/15/01	<MDL	<MDL	NA
ARVM8-F	07/14/01	<MDL			ARVM24F	08/15/01	<MDL		
ARVM8-FC	07/14/01	<MDL	<MDL	NA	ARVM24FC	08/15/01	<MDL	<MDL	NA
METM8-B	07/14/01	<MDL			METM24B	08/15/01	<MDL		
METM8-BC	07/14/01	<MDL	<MDL	NA	METM24BC	08/15/01	<MDL	<MDL	NA
METM8-F	07/14/01	<MDL			METM24F	08/15/01	<MDL		
METM8-FC	07/14/01	<MDL	<MDL	NA	METM24FC	08/15/01	<MDL	<MDL	NA
ARBM13-B	07/23/01	<MDL			ARBM29B	08/24/01	<MDL		
ARBM13-BC	07/23/01	<MDL	<MDL	NA	ARBM29BC	08/24/01	<MDL	<MDL	NA
ARBM13-F	07/23/01	<MDL			ARBM29F	08/24/01	DET		
ARBM13-FC	07/23/01	<MDL	<MDL	NA	ARBM29FC	08/24/01	DET	DET	NA
CRSM13-B	07/23/01	<MDL			CRSM29B	08/24/01	<MDL		
CRSM13-BC	07/23/01	<MDL	<MDL	NA	CRSM29BC	08/24/01	<MDL	<MDL	NA
CRSM13-F	07/23/01	<MDL			CRSM29F	08/24/01	<MDL		
CRSM13-FC	07/23/01	<MDL	<MDL	NA	CRSM29FC	08/24/01	<MDL	<MDL	NA
MVSM13-B	07/23/01	<MDL			MVSM29B	08/24/01	<MDL		
MVSM13-BC	07/23/01	<MDL	<MDL	NA	MVSM29BC	08/24/01	<MDL	<MDL	NA
MVSM13-F	07/23/01	<MDL			MVSM29F	08/24/01	<MDL		
MVSM13-FC	07/23/01	<MDL	<MDL	NA	MVSM29FC	08/24/01	<MDL	<MDL	NA
VSDM13-B	07/23/01	<MDL			VSDM29B	08/24/01	<MDL		
VSDM13-BC	07/23/01	<MDL	<MDL	NA	VSDM29BC	08/24/01	<MDL	<MDL	NA
VSDM13-F	07/23/01	<MDL			VSDM29F	08/24/01	<MDL		
VSDM13-FC	07/23/01	<MDL	<MDL	NA	VSDM29FC	08/24/01	<MDL	<MDL	NA
ARVM13-B	07/23/01	<MDL			ARVM29B	08/24/01	<MDL		
ARVM13-BC	07/23/01	<MDL	<MDL	NA	ARVM29BC	08/24/01	<MDL	<MDL	NA
ARVM13-F	07/23/01	<MDL			ARVM29F	08/24/01	<MDL		
ARVM13-FC	07/23/01	<MDL	<MDL	NA	ARVM29FC	08/24/01	<MDL	<MDL	NA
METM13-B	07/23/01	<MDL			METM29B	08/24/01	<MDL		
METM13-BC	07/23/01	<MDL	<MDL	NA	METM29BC	08/24/01	<MDL	<MDL	NA
METM13-F	07/23/01	<MDL			METM29F	08/24/01	<MDL		
METM13-FC	07/23/01	<MDL	<MDL	NA	METM29FC	08/24/01	<MDL	<MDL	NA

**Table 11. MITC Lab Spike Results**

Sample ID	MITC		
	Expected (ug/sample)	Actual (ug/sample)	Percent Recovery
Spike1	12.00	4.56	38%
Spike 2	12.00	4.86	41%
Spike 3	12.00	6.15	51%
Spike 4	12.00	6.21	52%
		<b>Ave.=</b>	<b>45%</b>

**Table 14. Chloropicrin Lab Spike Results**

Sample ID	TCNM		
	Expected (ng/sample)	Actual (ng/sample)	Percent Recovery
Spike1	120	87.9	73%
Spike 2	120	95.3	79%
Spike 3	120	117.3	98%
Spike 4	120	36.9	31%
		<b>Ave.=</b>	<b>70%</b>

**Table 12. MITC Trip Spike Results**

Sample ID	MITC		
	Expected (ug/sample)	Actual (ug/sample)	Percent Recovery
Spike1	12.0	4.80	40%
Spike 2	12.0	6.18	52%
Spike 3	12.0	6.51	54%
Spike 4	12.0	6.03	50%
		<b>Ave.=</b>	<b>49%</b>

**Table 15. Chloropicrin Trip Spike Results**

Sample ID	TCNM		
	Expected (ng/sample)	Actual (ng/sample)	Percent Recovery
ARBL6-TS	120.0	94.2	79%
ARBL11-TS	120.0	113.5	95%
Trip Spike	120.0	114.3	95%
ARBL28-TS	120.0	<MDL	NA
		<b>Ave.=</b>	<b>89%</b>

**Table 13. MITC Field Spike Results**

Sample ID	MITC		
	Expected (ug/sample)	Actual (ug/sample)*	Percent Recovery
Spike1	12.0	4.62	39%
Spike 2	12.0	6.09	51%
Spike 3	12.0	6.33	53%
Spike 4	12.0	5.97	50%
		<b>Ave.=</b>	<b>48%</b>

**Table 16. Chloropicrin Field Spike Results**

Sample ID	TCNM		
	Expected (ng/sample)	Actual (ng/sample)*	Percent Recovery
ARBL4-FS	120.0	65.6	55%
ARBL11-FS	120.0	84.0	70%
ARBL19-FS	120.0	64.2	54%
ARBL28-FS	120.0	82.2	69%
		<b>Ave.=</b>	<b>62%</b>

\*Corrected by subtracting the concentration found in the corresponding collocated sample.

**Table 17. MIC Lab Spike Results**

Sample ID	MIC		
	Expected (ug/sample)	Actual (ug/sample)	Percent Recovery
Spike1	0.6	0.762	127%
Spike 2	0.6	0.594	99%
Spike 3	0.6	2.769	NA
Spike 4	0.6	0.888	148%
		<b>Ave.=</b>	<b>125%</b>

**Table 18. MIC Trip Spike Results**

Sample ID	MIC		
	Expected (ug/sample)	Actual (ug/sample)	Percent Recovery
ARBM5-TS	0.6	0.639	107%
ARBM11-TS	0.6	0.567	95%
Trip Spike	0.6	2.889	NA
ARBM28-TS	0.6	0.780	130%
		<b>Ave.=</b>	<b>110%</b>

**Table 19. MIC Field Spike Results**

Sample ID	MIC		
	Expected (ug/sample)	Actual (ug/sample)*	Percent Recovery
ARBM4-FS	0.6	0.720	120%
ARBM11-FS	0.6	0.690	114%
ARBM19-FS	0.6	NA-broke	NA
ARBM28-FS	0.6	0.399	67%
		<b>Ave.=</b>	<b>100%</b>

\*Corrected by subtracting the concentration found in the corresponding collocated sample.

Figure 1. Ambient Monitoring Area  
(use map provided by DPR)

