

**PROPOSED AMENDMENTS TO THE AREA DESIGNATIONS  
FOR STATE AMBIENT AIR QUALITY STANDARDS  
WITH  
MAPS OF AREA DESIGNATIONS FOR THE  
STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS**

**September 1994**

**California Environmental Protection Agency**

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**Air Resources Board**



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**STAFF REPORT**

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Sacramento, California**

**California Environmental Protection Agency  
Air Resources Board  
Technical Support Division  
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**This document has been reviewed and approved by the staff of the  
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Approval does not signify that the contents necessarily reflect  
the views and policies of the California Air Resources Board.**

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## OVERVIEW AND RECOMMENDATION

### A. OVERVIEW

#### 1. Introduction

The Health and Safety Code section 39607(e) requires the Air Resources Board (ARB or Board) to establish designation criteria. These criteria provide the basis for the Board to designate areas as nonattainment, attainment, or unclassified for the state ambient air quality standards, as required by the Health and Safety Code section 39608.

The Board is required by Health and Safety Code section 39608(c) to review the area designations annually. Based on the most recently available air quality data, the ARB staff recommends several amendments to the area designations. The proposed amendments are based on air quality data from 1991 through 1993. These amendments are summarized in subsection 2, which follows.

In addition to the recommendations for area redesignations, this report includes maps and tables of the area designations for both the state and national ambient air quality standards (refer to Attachment B). These maps and tables reflect the area redesignations proposed in this Staff Report.

#### 2. Proposed Amendments to the Area Designations

The proposed amendments to the area designations (California Code of Regulations (CCR), Title 17, sections 60200 through 60209) would make the following changes to the regulations:

- Identify the redesignation of Mono County in the Great Basin Valleys Air Basin to nonattainment-transitional for ozone that occurred by operation of law. Currently, Mono County is designated as nonattainment for ozone.
- Redesignate Santa Clara County in the San Francisco Bay Area Air Basin as attainment for carbon monoxide. Currently, the San Jose Urbanized Area is designated as nonattainment-transitional, while the remainder of the County is designated as attainment for carbon monoxide.
- Redesignate Orange County in the South Coast Air Basin as attainment for carbon monoxide. Currently, Orange County is designated as nonattainment for carbon monoxide.
- Redesignate San Joaquin County in the San Joaquin Valley Air Basin as attainment for carbon monoxide. Currently, the Stockton Urbanized Area is designated as nonattainment, while the remainder of the County is designated as unclassified for carbon monoxide.

- Redesignate Stanislaus County in the San Joaquin Valley Air Basin as attainment for carbon monoxide. Currently, the Modesto Urbanized Area is designated as nonattainment, while the remainder of the County is designated as unclassified for carbon monoxide.
- Redesignate the Southeast Desert Air Basin (SEDAB) portion of Kern County as attainment for sulfur dioxide. Currently, the SEDAB portion of Kern County is designated as unclassified for sulfur dioxide.
- Redesignate the South Coast Air Basin as attainment for sulfates. Currently, the South Coast Air Basin is designated as nonattainment for sulfates.

#### **B. RECOMMENDATION**

The ARB staff recommends the Board adopt the proposed amendments to the area designations. The full text of the proposed amendments is given in Attachment C of this Staff Report.

## **CHAPTER I BACKGROUND**

### **A. Introduction**

This chapter gives some background information on the criteria used for making the area designations and also, the area designations themselves. The following sections describe the legal requirements, the criteria used for making the area designations, the implications of being redesignated, and the area designation review process.

### **B. Legal Requirements**

Health and Safety Code (HSC) section 39607(e) (refer to Attachment A) requires the Board to establish and periodically review the criteria for designating areas as nonattainment or attainment for the state ambient air quality standards (state standards; refer to Attachment B). The Board originally adopted the required designation criteria in June of 1989. The Board subsequently amended the designation criteria in June 1990, May 1992, December 1992, and November 1993.

HSC section 39608 (refer to Attachment A) requires the Board to use the designation criteria in designating areas of California as nonattainment or attainment with respect to the state standards (refer to Attachment B). Areas that cannot be designated as nonattainment or attainment are designated as unclassified. The area designations are made on a pollutant-by-pollutant basis, for all pollutants listed in the CCR, Title 17, section 70200. The nine affected pollutants are ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, suspended particulate matter or PM10, sulfates, lead, hydrogen sulfide, and visibility reducing particles. The HSC requires the Board to review the area designations each year and update them as new information becomes available.

HSC section 40718 (refer to Attachment A) requires the Board to publish maps that identify areas where one or more violations of any state or national ambient air quality standard have been measured. Attachment B contains maps and tables which summarize the areas designated as nonattainment, nonattainment-transitional, attainment, or unclassified for the state standards, and reflects the proposed redesignations. These maps and tables reflect the area redesignations proposed in this Staff Report. Attachment B also contains maps and tables which summarize areas designated as nonattainment, attainment, or unclassified for the national standards as promulgated by the United States Environmental Protection Agency.

## **C. Summary of the Designation Criteria**

### **1. General Provisions**

The current designation criteria comprise CCR, Title 17, sections 70300 through 70306, including Appendices 1 through 4, thereof (refer to Attachment D). The designation criteria describe the procedures the Board must use to determine an area's designation status with respect to the state standards. In summary, the designation criteria specify:

- The data the Board will use for making the area designations;
- How the Board will determine the size of the designated areas;
- How the Board will determine whether an area qualifies for designation as nonattainment, attainment, or unclassified; and
- The requirement for an annual review of the area designations by the Board's Executive Officer.

### **2. Data to Use**

To the extent possible, the Board makes area designations for each pollutant based on recent ambient air quality data. The air quality data must be "data for record," which are those air quality data that satisfy specified siting and quality assurance procedures established by the United States Environmental Protection Agency. Generally, data for record are those data collected by or under the direction of the Board and the air pollution control or air quality management districts (districts). When adequate recent air quality data are not available, the Board may use other types of information to determine an appropriate area designation. These other types of information may include historical air quality data, emissions data, meteorological or topographical data, and data relating to the amounts and distributions of population or emissions.

### **3. Highly Irregular or Infrequent Events**

When area designations for state standards are based on ambient air quality data, the designation criteria provide for excluding unusual values. In particular, the designation criteria provide for excluding exceedances affected by highly irregular or infrequent events because it is not reasonable to mitigate these exceedances through the regulatory process. Appendix 2 to the designation criteria (refer to Attachment D) defines two types of highly irregular or infrequent events:

- 1) Exceptional Events, and
- 2) Extreme Concentration Events.

An exceptional event is a specific, identifiable event that causes or contributes significantly to an exceedance of a state standard. An exceptional event may be caused by an act of nature (for example, a severe

wind storm, volcanic eruption, or stratospheric ozone intrusion) or it may be of human origin (for example, a chemical spill or industrial accident).

In contrast, an **extreme concentration event** does not have a specific, identifiable cause but is based on a statistical procedure which calculates the concentration that is not expected to recur more frequently than once per year. This value is often referred to as the **Expected Peak Day Concentration**. Adverse meteorology is one potential cause of an extreme concentration event. Measured concentrations that are higher than the **Expected Peak Day Concentration** are excluded as extreme concentrations.

The **Expected Peak Day Concentration** is calculated on a site-by-site basis, using data for a three-year period. The **Expected Peak Day Concentrations** for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, PM10, sulfates, and hydrogen sulfide are listed in Attachment E. The **Expected Peak Day Concentrations** listed in Attachment E are based on air quality data for 1991 through 1993. This is the most recent three-year period for which data are available and the same three-year period used in reviewing the area designations discussed in this Staff Report. Note that the **Expected Peak Day Concentrations** are not given for lead because all areas in California are currently designated as attainment for the state lead standard. Furthermore, the **Expected Peak Day Concentrations** also are not given for visibility reducing particles because the available data are not sufficient for calculating the **Expected Peak Day Concentrations** for this pollutant.

#### **4. Size of the Designated Area**

The size of the area designated for a pollutant may vary depending on the nature of the pollutant, the location of contributing emission sources, the meteorology, and the topographic features. Generally, an air basin is the area designated for ozone, nitrogen dioxide, PM10, sulfates, and visibility reducing particles. A county (or the portion of a county located within an air basin) generally is the area designated for carbon monoxide, sulfur dioxide, lead, and hydrogen sulfide. In both cases, however, the Board may designate a smaller area if the Board finds that the smaller area has distinctly different air quality, resulting from sources and conditions that do not affect the entire air basin or county. To the extent practical, the designation criteria require the Board to define the designated areas using political boundary lines.

#### **5. Designation Categories**

The designation criteria specify three major categories of designation: nonattainment, attainment, and unclassified. The Board will designate an area as nonattainment for a pollutant if air quality data show that a state standard for that pollutant was violated at least once during the previous

three calendar years.<sup>1</sup> Exceedances that are affected by highly irregular and infrequent events are not considered to be violations of a state standard and are not used as a basis for designating areas as nonattainment.

The designation criteria specify a subcategory of nonattainment which is called nonattainment-transitional. The Board will designate an area as nonattainment-transitional for a pollutant other than ozone if air quality data show that a state standard for that pollutant was violated two or fewer times at each of the sites in the area during the previous calendar year. In addition, an evaluation of recent air quality data trends and meteorological and emissions data must show that air quality either has stabilized or improved. Finally, the area must be expected to reach attainment for the pollutant within three years.

The nonattainment-transitional designation can also apply for ozone. Under HSC section 40925.5 (refer to Attachment A), the nonattainment-transitional designations for ozone are made by operation of law. Specifically, an area is designated as nonattainment-transitional for ozone, by operation of law, if air quality data show that the state ozone standard was exceeded three or fewer times at each of the sites in the air basin during the most recent year for which air quality data are available.

The Board will designate an area as attainment for a pollutant if the data show that the state standard for that pollutant was not violated during the previous three calendar years. Again, exceedances affected by highly irregular or infrequent events are not considered violations. As a result, an area may have measured concentrations that exceed a state standard and still be designated as attainment. Finally, the Board will designate an area as unclassified for a pollutant if the available data do not support a designation of nonattainment or attainment.

#### **D. Implications of the Redesignations**

##### **1. Areas Redesignated as Nonattainment**

A district that includes an attainment or unclassified area that is redesignated as nonattainment (a nonattainment district) experiences two principal consequences under the law. First, state law requires the nonattainment districts for ozone, carbon monoxide, nitrogen dioxide, and

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1. The terms "exceedance" and "violation" are used throughout this Staff Report. Because the two terms are closely related, they can be confusing. In this report, the term "exceedance" refers to a measured pollutant concentration that is higher than the level of the state standard. The term "violation" refers to an exceedance that was not significantly affected by a highly irregular or infrequent event (refer to Attachment D). Violations are considered in the area designation process.

sulfur dioxide to develop plans for attaining the state standards for these pollutants. The nonattainment districts must submit these attainment plans to the Board for approval (HSC section 40911). Ozone nonattainment districts that are impacted by overwhelming transport from upwind areas (in other words, all of the ozone violations are determined to be caused by emissions transported from an upwind area located outside the district) are not required to develop ozone attainment plans. In this case, the responsible upwind district(s) would be responsible for mitigating the ozone violations in the downwind nonattainment area (CCR, Title 17, Subchapter 1.5, Article 6, Section 70600).

A district with an area that is redesignated as nonattainment for any of the remaining five pollutants--PM10, sulfates, lead, hydrogen sulfide, or visibility reducing particles--is not subject to any specific statutory planning requirements. However, such districts must adopt and enforce rules and regulations to expeditiously attain the state standards for these five pollutants. Furthermore, the nonattainment district may develop and implement an attainment plan (HSC section 40001).

The second consequence is that a nonattainment district for ozone, carbon monoxide, nitrogen dioxide, and sulfur dioxide is required to collect fees from large nonvehicular sources located in the nonattainment area (HSC section 39612 and CCR, Title 17, section 90620 et seq.). Only those sources which emit 500 tons per year or more of any of these four pollutants or their precursors are subject to the additional permit fees. The additional fees are used to help defray the costs of state programs related to nonvehicular sources and implemented under the California Clean Air Act of 1988 (Stats. 1988, ch. 1568).

## **2. Areas Redesignated as Nonattainment-Transitional**

Nonattainment-transitional is a subcategory of the nonattainment designation. Therefore, a district with an area that is redesignated as nonattainment-transitional is subject to the same legal requirements as a nonattainment district (refer to discussion in subsection 1, above).

However, in contrast to the simple nonattainment designation, nonattainment-transitional status may signal a change in how these legal requirements are implemented. For example, a district that is currently implementing an approved attainment plan may determine that some of the additional control measures contained in the attainment plan are not needed to reach attainment by the earliest practical date. As a result, nonattainment-transitional status provides the district with a signal that it may be appropriate to review and perhaps modify its approved attainment plan. HSC section 40925.5 specifically allows a district with an area designated as nonattainment-transitional for ozone to shift some stationary source control measures from the rulemaking calendar to the contingency category if the district finds these control measures are no longer necessary to accomplish expeditious attainment of the state ozone standard. District actions in response to nonattainment-transitional status are subject to the Board's review and approval.

### **3. Areas Redesignated as Attainment**

State law does not impose specific planning requirements upon districts with areas redesignated as attainment. However, state law does require that the state standards not only be attained but also, maintained. State law requires the districts and the Board to make a coordinated effort to protect and enhance the ambient air quality. As part of this effort, the districts must adopt rules and regulations sufficiently effective to attain and maintain the state standards (HSC sections 39001, 40001, and 41500).

### **E. The Area Designation Review Process**

Both the HSC (section 39608(c)) and the designation criteria require the Board to review the area designations annually and to update them (redesignate areas) as new information becomes available. As part of this review process, the ARB staff distributed two notices. On April 13, 1994, the ARB staff sent a letter to all districts notifying them of the May 1, 1994, deadline for requesting a change in an area's designation, submitting information for consideration in the annual review process, or requesting a nonattainment-transitional designation for pollutants other than ozone. (Note that the nonattainment-transitional designations for ozone are made by operation of law, rather than by the Board.) On July 14, 1994, the ARB staff distributed a general announcement for a public consultation meeting held August 4, 1994. This announcement included a list of areas with the proposed redesignations the ARB staff was considering.

As required by the designation criteria, the ARB staff has reviewed the air quality data collected during the most recent three calendar years--1991 through 1993. Based on these data, the ARB staff proposes that a number of specific areas be redesignated. All of the proposed redesignations reflect changes toward better air quality, indicating the benefits of the ongoing emission control efforts.

## CHAPTER II PROPOSED AMENDMENTS TO THE AREA DESIGNATIONS

### A. Introduction

This chapter describes and explains the proposed amendments to the area designations. The proposed redesignations are consistent with the designation criteria established in CCR, Title 17, sections 70300 through 70306. The proposed redesignations are based on air quality data for record as defined in CCR, Title 17, section 70301 (refer to Attachment D). The air quality data used for redesignating an area as nonattainment must be representative of the averaging time specified in the state standard. The air quality data used for redesignating an area as attainment or nonattainment-transitional also must be representative and, in addition, the data must be complete. The specific requirements for evaluating data representativeness and data completeness are given in Appendices 1 and 3, respectively, of the designation criteria (refer to Attachment D).

As required by the designation criteria, the ARB staff reviewed the air quality data collected during the three-year period of 1991 through 1993. Based on these data, redesignations are appropriate only for four of the nine pollutants for which the Board makes area designations. The affected pollutants are: ozone, carbon monoxide, sulfur dioxide, and sulfates. Based on the 1991 through 1993 data, no action is proposed for the remaining five pollutants: nitrogen dioxide, PM10, lead, hydrogen sulfide, and visibility reducing particles. Therefore, the current area designations for these five pollutants would remain unchanged.

Sections B through E of this chapter discuss the areas for which the staff is proposing area redesignations. The last section of this chapter discusses the areas where air quality data appear to signal a change in the designation but for which the staff does not recommend a redesignation.

### B. Proposed Area Redesignation for Ozone

The state standard for ozone is a one-hour concentration of 0.09 parts per million (ppm). Based on air quality data for 1991 through 1993, one area qualifies for redesignation for ozone.

Currently, Mono County in the Great Basins Valleys Air Basin is designated as nonattainment for ozone. The area now qualifies for redesignation as nonattainment-transitional, by operation of law. Section 40925.5(a) of the HSC (see Attachment A) provides that an ozone nonattainment area shall be redesignated as nonattainment-transitional, by operation of law, if there are three or fewer exceedances of the state ozone standard at any monitoring site in the air basin during the last calendar year. A change in designation that is carried out by operation of law does not require a formal action by the Air Resources Board. However, the staff

hereby acknowledges the change in the designation in this Staff Report. The reasons for the change are summarized, below.

The maximum hourly ozone concentration measured during the last three years in Mono County was 0.10 ppm, after excluding data affected by highly irregular or infrequent events. The 0.10 ppm concentration occurred during 1992. Since 0.10 ppm exceeds the state ozone standard, the area does not qualify for the attainment designation. However, the maximum measured ozone concentration in Mono County during 1993, the most recent calendar year, was 0.09 ppm. This concentration does not exceed the state ozone standard.

Therefore, the staff concludes that based on data for 1991 through 1993, Mono County qualifies for a change in designation from nonattainment to nonattainment-transitional for ozone, by operation of law.

### **C. Proposed Area Redesignations for Carbon Monoxide**

The state carbon monoxide (CO) standards are expressed in two averaging times for any given area of the state: one-hour and eight-hour. A one-hour average CO standard of 20 ppm applies statewide. An eight-hour average CO standard of 9.0 ppm applies in all areas of the state except the Lake Tahoe Air Basin. In the Lake Tahoe Air Basin, a more stringent eight-hour average CO standard of 6 ppm, not to be equaled, applies.

The state eight-hour CO standard has been the more difficult standard to meet for all areas. With the exception of a single monitoring site in Los Angeles County, there were no exceedances of the state one-hour CO standard in any area of the state during 1991 through 1993.

Based on data from 1991 through 1993, four areas qualify for redesignation for CO. The areas are: the San Jose Urbanized Area of Santa Clara County in the San Francisco Bay Area Air Basin; Orange County in the South Coast Air Basin; the Stockton Urbanized Area of San Joaquin County and the Modesto Urbanized Area of Stanislaus County, both in the San Joaquin Valley Air Basin. All four areas qualify for redesignations as attainment.

#### **1. Santa Clara County**

Santa Clara County currently is divided into two CO designation areas. The San Jose Urbanized Area is designated as nonattainment-transitional, while the remainder of the County is designated as attainment.

During 1991 through 1993, there were four exceedances of the state eight-hour CO standard at the high CO site in the San Jose Area. All occurred during 1991. Because, all four exceedances are higher than the calculated Expected Peak Day Concentration of 9.0 ppm, they are excluded as extreme concentrations. As a result, these exceedances are not considered violations of the state eight-hour CO standard. There were also no CO violations at any site outside the San Jose Urbanized Area in Santa Clara

County. Furthermore, the staff has determined that the CO concentrations in the San Jose Urbanized Area reflect the highest CO concentrations expected in Santa Clara County.

Based on air quality data for 1991 through 1993 for Santa Clara County, the staff recommends that the entire Santa Clara County be designated as attainment for CO.

## **2. Orange County**

Orange County is located entirely within the South Coast Air Basin. Currently, Orange County is designated as nonattainment for the state CO standards.

During 1991 through 1993, there was one exceedance of the state eight-hour CO standard at each of three monitoring sites in Orange County, and all occurred during 1992. Each of these exceedances is higher than the calculated Expected Peak Day Concentration for the respective site. Therefore, all the exceedances are excluded as extreme concentrations and are not considered as violations of the state CO standard.

Based on the data for 1991 through 1993 for Orange County, the staff recommends that Orange County in the South Coast Air Basin be redesignated from nonattainment to attainment. As a result of this redesignation, Los Angeles County would be the only county in the South Coast Air Basin designated as nonattainment for CO. The other three counties in the Basin -- Orange, Riverside, and San Bernardino Counties-- all would be designated as attainment for CO.

## **3. San Joaquin County**

San Joaquin County in the San Joaquin Valley Air Basin, currently is divided into two designation areas for the state CO standards. The Stockton Urbanized Area is designated as nonattainment, while the remainder of the County is designated as unclassified.

During 1991 through 1993, there were two exceedances of the state eight-hour CO standard at the high CO site at Stockton, in the Stockton Urbanized Area. Both exceedances occurred during 1991, and both are higher than the calculated Expected Peak Day Concentration of 8.8 ppm for the site. As a result, the exceedances are excluded as extreme concentrations and are not considered violations of the state CO standard. Although there is no CO monitoring site outside the Stockton Urbanized Area, the staff has determined that the CO concentrations in the Stockton Urbanized Area reflect the highest CO concentrations expected in the County.

Based on air quality data for 1991 through 1993 for the Stockton Urbanized Area, the staff recommends that the entire San Joaquin County be designated as attainment for the state CO standards.

#### 4. Stanislaus County

Stanislaus County in the San Joaquin Valley Air Basin, currently is divided into two designation areas for the state CO standards. The Modesto Urbanized Area is designated as nonattainment, while the remainder of the County is designated as unclassified.

During 1991 through 1993, there were two exceedances of the state eight-hour CO standard at the CO site at Modesto, in the Modesto Urbanized Area. Both exceedances occurred during 1991, and both are higher than the calculated Expected Peak Day Concentration of 8.7 ppm for the site. As a result, these exceedances are excluded as extreme concentrations and are not considered violations of the state CO standards. There also were no CO violations at the CO site outside the Modesto Urbanized Area in Stanislaus County. The staff has determined that the CO concentrations in the Modesto Urbanized Area reflect the highest CO concentrations expected in the County.

Based on air quality data for 1991 through 1993 for the CO monitoring sites in Stanislaus County, the staff recommends that the entire Stanislaus County be designated as attainment for the state CO standards.

#### D. Proposed Area Redesignation for Sulfur Dioxide

The state sulfur dioxide standards are expressed in two averaging times: one-hour concentration of 0.25 ppm and a 24-hour concentration of 0.04 ppm. Appendix 4 of the designation criteria (refer to Attachment D) provides the Board with screening procedures that will serve as a basis for making designation decisions when an area has no or incomplete air quality data for record. In order to redesignate an area for the state sulfur dioxide standards, the screening procedures require the areas's total point source emissions of oxides of sulfur (SOx) not to exceed 1,700 tons per year and no single facility's annual SOx emissions exceed 900 tons per year.

Currently, the Southeast Desert Air Basin (SEDAB) portion of Kern County is designated unclassified for the state sulfur dioxide standards. This area is the only area in the state that is not designated attainment for the state sulfur dioxide standards. The total SOx emission inventory in the SEDAB portion of Kern County is 1,533 tons per year according to the 1991 Air Resources Board Emission Inventory. Of this, 949 tons per year come from point sources. This is well below the screening parameter of 1,700 tons per year. The maximum annual SOx emissions from a single facility is 570 tons per year, (Cal Portland Cement Plant, based on 1991 ARB Emissions Inventory) which is also below the screening parameter of 900 tons per year.

Both local values are below the screening parameters. Based on the SOx emissions in the SEDAB portion of Kern County which satisfies the screening procedures in Appendix 4 of the designation criteria, the staff recommends that the SEDAB portion of Kern County be designated as attainment for the state sulfur dioxide standards.

#### **E. Proposed Area Redesignation for Sulfates**

The state standard for sulfates is a 24-hour average concentration of 25 micrograms per cubic meter, not to be equaled. The size of the geographic area for sulfate designations generally is the air basin.

The South Coast Air Basin comprises of Orange County, and portions of Los Angeles, Riverside, and San Bernardino Counties. Currently, the entire South Coast Air Basin is designated as nonattainment for the state sulfates standard.

During 1991 through 1993, there were no exceedances of the state sulfates standard in the South Coast Air Basin. The highest measured sulfates concentration was 24.7 micrograms per cubic meter and occurred during 1991 at a site in Los Angeles County. This concentration is below the level of the state standard.

Based on sulfates air quality data for 1991 through 1993, the staff recommends that the entire South Coast Air Basin be redesignated as attainment for sulfates.

#### **F. Areas Not Recommended for Redesignations**

This section discusses three areas of the state where the air quality data for 1991 through 1993 appear to signal a change in the designation. However, the staff does not recommend a redesignation in each case. These areas are currently designated as attainment for a particular pollutant and showed measured exceedance(s) for that pollutant. However, the exceedance(s) were either determined to be or believed to be affected by highly irregular or infrequent events and, therefore, would not be violations of the state standards. The three areas and the pollutants for which there were exceedance(s) are: Southeast Desert Air Basin (nitrogen dioxide), San Luis Obispo County in the South Central Coast Air Basin (sulfur dioxide), and Los Angeles County in the South Coast Air Basin (lead).

The reasons that the staff does not recommend a redesignation for each of these areas are discussed below.

##### **1. Southeast Desert Air Basin**

The Southeast Desert Air Basin currently is designated as attainment for the state nitrogen dioxide standard. The state nitrogen dioxide standard is a one-hour average concentration of 0.25 ppm. In May 1993, a one-hour nitrogen dioxide concentration of 0.36 ppm was measured at the Trona-Athol monitoring site in the Southeast Desert Air Basin portion of San Bernardino County. This concentration is higher than the level of the state nitrogen dioxide standard. The Trona-Athol site was established in March 1993 by the Mojave Desert Air Quality Management District as a replacement for the Trona-Market site, which was scheduled for closure.

After a review of the data and relevant information, the staff identified this measured value of 0.36 ppm as highly anomalous among the nitrogen dioxide concentrations at the site. This hourly measurement was followed by a measurement of only 0.06 ppm. The next highest hourly nitrogen dioxide concentration at the site was 0.05 ppm, and a majority of the remaining nitrogen dioxide concentrations at the site ranged from 0 to 0.02 ppm. These values are substantially below the state nitrogen dioxide standard of 0.25 ppm. All information currently available to the staff indicates that this exceedance is a highly irregular or infrequent event, very likely an extreme concentration event. However, because the data for the Trona-Athol site do not meet the Board's completeness criteria, we cannot be positive at this time. If the monitoring site reports complete data through January 1995, we expect to be able to confirm the 0.36 ppm concentration as an extreme concentration event by early next year. During the time between now and the end of next January, the staff and the district will follow the monitoring data to check for any additional exceedances.

Since the staff believes that this exceedance would likely be excluded as a highly irregular or infrequent event, the staff does not currently consider it as a violation. Therefore, the staff does not recommend any change in the current attainment designation for the state nitrogen dioxide standard for the Southeast Desert Air Basin.

## 2. San Luis Obispo County

San Luis Obispo County, in the South Central Coast Air Basin, currently is designated as attainment for sulfur dioxide. There are two state standards for sulfur dioxide: a one-hour average sulfur dioxide standard of 0.25 ppm and a 24-hour average standard of 0.04 ppm.

In June 1993, a one-hour sulfur dioxide concentration of 0.57 ppm and a 24-hour sulfur dioxide concentration of 0.046 ppm were recorded. Both concentrations, measured at the Nipomo-1300 Guadalupe monitoring site in San Luis Obispo County, exceed the respective state sulfur dioxide standard. However, both the one-hour exceedance and the 24-hour exceedance are higher than the calculated Expected Peak Day Concentrations of 0.109 ppm and 0.021 ppm, respectively, for the site. Thus, both exceedances are excluded as extreme concentration events, which are one type of highly irregular or infrequent events.

Since the exceedances were affected by a highly irregular or infrequent event, they are not considered violations of the state sulfur dioxide standards. Therefore, the staff does not recommend any change in the attainment designation for sulfur dioxide for San Luis Obispo County or the South Central Coast Air Basin.

### 3. Los Angeles County

Los Angeles County in the South Coast Air Basin, currently is designated as attainment for the state lead standard, along with all other areas of the state. The state lead standard is a 30-day average concentration of 1.5 micrograms per cubic meter.

In March 1993, a 30-day average lead concentration of 1.83 micrograms per cubic meter was measured at the Commerce-L.A. Paper Box monitoring site in Los Angeles County. The measured concentration exceeds the state lead standard. There were no other exceedances of the state lead standard at this monitoring site during 1991 through 1993.

The Commerce-L.A. Paper Box site is one of eight source-oriented sites operated by the South Coast Air Quality Management District (AQMD) to monitor the air quality around a number of lead processing facilities in the Basin. Since early 1992, the South Coast AQMD has worked closely with the industrial facilities to reduce their lead emissions and prevent exceedances of the state lead standard. The Daelco lead oxide manufacturing plant at Commerce, the source upwind of the monitoring site in question, has been conducting equipment modifications and construction activities that are intended to reduce the plant's overall lead emissions. The District staff believes the lead exceedance was caused by these construction and modification activities (refer to Attachment F). The District has taken steps to prevent any further exceedances of the lead standard.

Additionally, in October 1992, the District adopted Rule 1420 (Emission Standard for Lead). This Rule, which became effective on July 1, 1994, contains a number of requirements for: equipment performance standards, housekeeping practices, record keeping, source testing, fence line air monitoring, and air quality modeling. The District staff believes that the Daelco plant is now in compliance with Rule 1420 and that an exceedance will not recur.

Because the lead exceedance at the Commerce-L.A. Paper Box monitoring site is not expected to recur, it is considered as being affected by an exceptional event, which is one type of highly irregular or infrequent events. As a result, the exceedance is not considered a violation of the state lead standard. Therefore, the staff does not recommend any change in the lead attainment designation for Los Angeles County or the South Coast Air Basin.



### CHAPTER III ALTERNATIVES TO THE PROPOSED AMENDMENTS

State law (HSC section 39608) requires the Board to annually review the area designations. The proposed amendments to the area designations that are described in Chapter II of this Staff Report, reflect the application of the designation criteria set forth in CCR, Title 17, sections 70300 through 70306. Each proposed area redesignation is accompanied by a discussion of its basis and justification. The ARB staff has considered the potential alternatives to the proposed amendments to the area designations--namely, the no action alternative. However, based on the available data, the ARB staff finds the proposed amendments are more appropriate than the no action alternative.



## CHAPTER IV IMPACTS OF THE PROPOSED AMENDMENTS

### A. Environmental Impacts

The adoption of the proposed amendments to the area designations is not expected in and of itself to result in any adverse environmental impacts. The proposed amendments involve redesignating six areas as attainment and one area as nonattainment-transitional. Redesignating an area as attainment will have no adverse environmental impacts since a district is obligated not only to attain, but also maintain, the state standards.

### B. Economic Impacts

The Board's Executive Officer has determined that the proposed amendments to the regulations will not impose costs or generate savings, as defined in Government Code section 11346.5(a)(6), to any state agency or in federal funding to the state, costs or mandate to any local agency or school district whether or not reimbursable by the state pursuant to Part 7 (commencing with section 17500), Division 4, Title 2 of the Government Code, or other nondiscretionary savings to local agencies.

The Executive Officer also has determined that adoption of the proposed regulatory action will have no significant adverse economic impact, as defined in Government Code section 11346.53(a), on large or small businesses, including the ability of California businesses to compete with businesses in other states. The redesignation of six areas as attainment and one area as nonattainment-transitional will not trigger any attainment plan implementation, rulemaking, or increased permit fees, which would have an impact on business.

The Executive Officer has also determined that there will be no significant potential cost impact, as defined in Government Code section 11346.53(e), on private persons or businesses directly affected as a result of the proposed action.

In accordance with Government Code section 11346.54, the Executive Officer has determined that adoption of the proposed regulatory action will not affect the creation or elimination of jobs within California, the creation of new businesses or the elimination of existing businesses in California, or the expansion of businesses currently doing business in California.

In addition, before taking final action on the proposed regulatory action, the Board must determine that no alternative considered by the agency would be more effective in carrying out the purposes for which the amendments to the regulations are proposed or would be as effective or less burdensome to the affected private persons than the proposed action.



## CHAPTER V DOCUMENTS RELIED UPON

The following is a list of the documents that were used by the staff in developing the proposed amendments.

1. Guideline on the Identification and Use of Air Quality Data Affected by Exceptional Events, Office of Air Quality Planning and Standards, U. S. Environmental Protection Agency, Research Triangle Park, N.C., # EPA-450/4-86-007 (July 1986).
2. Supplement to the Technical Support Document for Proposed Amendments to the Criteria for Designating Areas of California as Nonattainment, Attainment, or Unclassified for State Ambient Air Quality Standards, Technical Support Division, California Air Resources Board, Sacramento, California (May 1992).



**ATTACHMENT A**  
**RELEVANT SECTIONS OF THE**  
**HEALTH AND SAFETY CODE**



## ATTACHMENT A

### Relevant Sections of the Health and Safety Code

#### Section 39607(e):

Establish and periodically review criteria for designating an air basin attainment or nonattainment for any state ambient air quality standard set forth in Section 70200 of Title 17 of the California Code of Regulations. In developing and reviewing these criteria, the state board shall consider instances where there is poor or limited ambient air quality data, and shall consider highly irregular or infrequent violations. The state board shall provide an opportunity for public comment on the proposed criteria, and shall adopt the criteria after a public hearing.

#### Section 39608:

(a) The state board, in consultation with the districts, shall identify, pursuant to subdivision (e) of Section 39607, and classify each air basin which is in attainment and each air basin which is in nonattainment for any state ambient air quality standard. This identification and classification shall be made on a pollutant-by-pollutant basis. Where the state board finds that data is not sufficient to determine the attainment or nonattainment status for an air basin, the state board shall identify the air basin as unclassified.

(b) The state board may assign an attainment, nonattainment, or unclassified designation to one or more areas within any air basin unless the state board finds and determines that the pollutant for which the designation applies affects the entire region or is produced by emission sources throughout the region.

(c) Designations made by the state board shall be reviewed annually and updated as new information becomes available.

#### Section 40718:

(a) Not later than January 1, 1990, the state board shall publish maps identifying those cities, counties, or portions thereof which have measured one or more violations of any state or federal ambient air quality standard. The state board shall produce at least one map for each pollutant.

(b) A district may prepare the maps required under subdivision (a) for the area within its jurisdiction. If a district chooses to prepare maps, the district shall provide the maps to the state board for review.

not less than four months prior to the date when the state board is required to publish the maps, and pursuant to a schedule established by the state board for any subsequent maps.

(c) The maps produced pursuant to subdivision (a) shall be based upon the most recent monitoring results, using the best technological capabilities and the best scientific judgment. The maps produced pursuant to subdivision (a) shall clearly identify portions of each district which have or have not measured one or more violations of any state or federal ambient air quality standard. The maps shall be representative of the actual air quality in each portion of the district.

(d) The state board shall publish its criteria for preparing the maps pursuant to this section not later than January 31, 1989. To the extent applicable, the state board shall identify any criteria relating to meteorological impact on monitored air quality data; reliability of monitored data; magnitude, frequency, and duration of periods when ambient air quality standards are exceeded; and the area within the district in which the standards are exceeded.

(e) Any person may petition the state board to hold a public hearing on any proposed, adopted, amended, or revised map. If the petition is granted by the state board, the public hearing may be held at a regularly scheduled public hearing in Sacramento. Notice of the time and place of any hearing shall be given not less than 30 days prior to the hearing by publication in the district pursuant to Section 6061 of the Government Code. If a district includes portions of more than one county, the notice shall be published in each county not less than 30 days prior to the date of the hearing.

The notice shall include a description of the map proposed to be adopted, amended, or repealed and a summary description of the effect of the proposal.

(f) The state board shall review annually, and as appropriate revise, the maps required by this section, using the criteria developed pursuant to subdivision (c).

(g) Nothing in this section is intended to prevent a district board from enacting and enforcing rules or regulations designed to prevent interference with or maintenance of the state or federal air quality standards, or to prevent significant deterioration of the air quality in any area of the district.

#### Section 40925.5(a):

A district which is nonattainment for the state ozone standard shall be designated "nonattainment-transitional" by operation of law if, during a single calendar year, the state standard is not exceeded more than three times at any monitoring location within the air basin.

**ATTACHMENT B**

**MAPS AND TABLES OF THE AREA DESIGNATIONS  
FOR THE STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS**



## **ATTACHMENT B**

### **Area Designations for State and National Ambient Air Quality Standards**

#### **I. Introduction**

This attachment fulfills the requirement of Health and Safety Code Section 40718 for the Air Resources Board (the Board) to publish maps that identify where one or more violations of any state or national ambient air quality standard have been measured.

The attachment is divided into three sections. Section A details the levels and specific requirements of both state and national ambient air quality standards.

Section B presents maps and tables showing the designation of areas for each pollutant for which there is a state standard. These maps and tables reflect the proposed area redesignations that the Board will consider in November 1994, pursuant to the Health and Safety Code Section 39608. An attainment designation for an area signifies that pollutant concentrations in the area did not violate the state standard for that pollutant. A nonattainment designation indicates that a pollutant concentration did violate the state standard at least once during the previous three calendar years, excluding an exceedance(s) affected by highly irregular or infrequent events as defined in the designation criteria. An unclassified designation indicates that air quality and other relevant data are inadequate to determine whether an area is attainment or nonattainment. In addition to these three major categories, there is a subcategory of the nonattainment designation known as nonattainment-transitional. This subcategory applies to areas that are close to attainment and meet other specific criteria (refer to Attachment D to the Staff Report).

Section C of this attachment presents maps and tables showing the designation of each area for each pollutant for which there is a national ambient air quality standard. The determination of attainment, nonattainment, or unclassified was based on requirements in section 107(d) of the Clean Air Act Amendments of 1990. The designations have been promulgated as final by the United States Environmental Protection Agency (U.S. EPA).

#### **A. State and National Ambient Air Quality Standards**

The Board has adopted and the U.S. EPA has promulgated ambient air quality concentration levels that define good air quality. These levels are the ambient air quality standards and were established to protect human health and/or welfare. The state and national standards may differ because

the state Board considered different bodies of information and chose to provide a wider margin of safety than did the U.S. EPA.

An ambient air quality standard is a concentration level expressed in either parts per million or as micrograms per cubic meter averaged over a specific time period such as one hour, eight hours, 24 hours, or one year. The different averaging times and concentrations are met to protect against different exposure effects. Some standards are not to be exceeded, while others or not to be equaled or exceeded.

The national standards are further defined as either primary standards or secondary standards. The primary standards are meant to protect public health. Whereas, the secondary standards are meant to protect the public welfare from any known or anticipated adverse effects of a pollutant.

The following table lists the applicable levels, averaging times, and analytical methods for measuring the pollutant.

# State of California Air Resources Board Ambient Air Quality Standards

| Pollutant                                        | Averaging Time                 | California Standards <sup>1</sup>                                                                                                                                                                 |                                                                   | National Standards <sup>2</sup> |                            |                                              |
|--------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------|----------------------------|----------------------------------------------|
|                                                  |                                | Concentration <sup>3</sup>                                                                                                                                                                        | Method <sup>4</sup>                                               | Primary <sup>3,5</sup>          | Secondary <sup>3,4,6</sup> | Method <sup>7</sup>                          |
| Ozone                                            | 1 Hour                         | 0.09 ppm<br>(180 ug/m3)                                                                                                                                                                           | Ultraviolet Photometry                                            | 0.12 ppm<br>(235 ug/m3)         | Same as Primary Std.       | Ethylene Chemiluminescence                   |
| Carbon Monoxide                                  | 8 Hour                         | 9.0 ppm<br>(10 mg/m3)                                                                                                                                                                             | Non-dispersive Infrared Spectroscopy (NDIR)                       | 9 ppm<br>(10 mg/m3)             |                            | Non-dispersive Infrared Spectroscopy (NDIR)  |
|                                                  | 1 Hour                         | 20 ppm<br>(23 mg/m3)                                                                                                                                                                              |                                                                   | 35 ppm<br>(40 mg/m3)            |                            |                                              |
| Nitrogen Dioxide                                 | Annual Average                 | -                                                                                                                                                                                                 | Gas Phase Chemiluminescence                                       | 0.053 ppm<br>(100 ug/m3)        | Same as Primary Std.       | Gas Phase Chemiluminescence                  |
|                                                  | 1 Hour                         | 0.25 ppm<br>(470 ug/m3)                                                                                                                                                                           |                                                                   | -                               |                            |                                              |
| Sulfur Dioxide                                   | Annual Average                 | -                                                                                                                                                                                                 | Ultraviolet Fluorescence                                          | 80 ug/m3<br>(0.03 ppm)          | -                          | Pararosaniline                               |
|                                                  | 24 Hour                        | 0.04 ppm<br>(105 ug/m3)                                                                                                                                                                           |                                                                   | 365 ug/m3<br>(0.14 ppm)         | -                          |                                              |
|                                                  | 3 Hour                         | -                                                                                                                                                                                                 |                                                                   | -                               | 1300 ug/m3<br>(0.5 ppm)    |                                              |
|                                                  | 1 Hour                         | 0.25 ppm<br>(655 ug/m3)                                                                                                                                                                           |                                                                   | -                               | -                          |                                              |
| Suspended Particulate Matter (PM <sub>10</sub> ) | Annual Geometric Mean          | 30 ug/m3                                                                                                                                                                                          | Size Selective Inlet High Volume Sampler and Gravimetric Analysis | -                               | Same as Primary Standard   | Inertial Separation and Gravimetric Analysis |
|                                                  | 24 Hour                        | 50 ug/m3                                                                                                                                                                                          |                                                                   | 150 ug/m3                       |                            |                                              |
|                                                  | Annual Arithmetic Mean         | -                                                                                                                                                                                                 |                                                                   | 50 ug/m3                        |                            |                                              |
| Sulfates                                         | 24 Hour                        | 25 ug/m3                                                                                                                                                                                          | Turbidimetric Barium Sulfate                                      | -                               | -                          | -                                            |
| Lead                                             | 30 day Average                 | 1.5 ug/m3                                                                                                                                                                                         | Atomic Absorption                                                 | -                               | -                          | Atomic Absorption                            |
|                                                  | Calendar Quarter               | -                                                                                                                                                                                                 |                                                                   | 1.5 ug/m3                       | Same as Primary Std.       |                                              |
| Hydrogen Sulfide                                 | 1 Hour                         | 0.03 ppm<br>(42 ug/m3)                                                                                                                                                                            | Cadmium Hydroxide STRactan                                        | -                               | -                          | -                                            |
| Vinyl Chloride (chloroethene)                    | 24 Hour                        | 0.010 ppm<br>(26 ug/m3)                                                                                                                                                                           | Tedlar Bag Collection, Gas Chromatography                         | -                               | -                          | -                                            |
| Visibility Reducing Particles <sup>8</sup>       | 8 hour<br>(10 am to 6 pm, PST) | In sufficient amount to produce an extinction coefficient of 0.23 per kilometer due to particles when the relative humidity is less than 70 percent. Measurement in accordance with ARB Method V. |                                                                   | -                               | -                          | -                                            |
| Applicable Only in the Lake Tahoe Air Basin      |                                |                                                                                                                                                                                                   |                                                                   |                                 |                            |                                              |
| Carbon Monoxide                                  | 8 hour                         | 6 ppm<br>(7 mg/m3)                                                                                                                                                                                | NDIR                                                              | -                               | -                          | -                                            |
| Visibility Reducing Particles <sup>9</sup>       | 8 hour<br>(10 am to 6 pm, PST) | In sufficient amount to produce an extinction coefficient of 0.07 per kilometer due to particles when the relative humidity is less than 70 percent. Measurement in accordance with ARB Method V. |                                                                   | -                               | -                          | -                                            |

## NOTES FROM AMBIENT AIR QUALITY STANDARDS TABLE

1. California standards for ozone, carbon monoxide, (except Lake Tahoe), sulfur dioxide, (1-hour and 24-hour), nitrogen dioxide, suspended particulate matter-PM<sub>10</sub>, and visibility reducing particles, are values that are not to be exceeded. The standards for sulfates, Lake Tahoe carbon monoxide, lead hydrogen sulfide, and vinyl chloride are not to be equaled or exceeded.
2. National standards, other than ozone and those based on annual averages or annual arithmetic means, are not to be exceeded more than once a year. The ozone standard is attained when the expected number of days per calendar year with the maximum hourly average concentrations are above the standard is equal to or less than one.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parenthesis are based upon a reference temperature of 25 degrees C. and a reference of 760 mm of mercury. All measurements of air quality are to be corrected to a reference temperature of 25 degrees C. and a reference pressure of 760 mm of mercury (1,013.2 millibar); ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent procedure which can be shown to the satisfaction of the Air Resources Board to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The level of air quality necessary, with an adequate margin of safety, to protect public health. Each state must attain the primary standards no later than three years after the state's implementation plan is approved by the U.S. Environmental Protection Agency (U.S. EPA).
6. National Secondary Standards: The level of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. Each state must attain the secondary standards within a "reasonable time" after the implementation plan is approved by the U.S. EPA.
7. Reference method as describe by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. This standard is intended to limit the frequency and severity of visibility impairment due to region haze and is equivalent to a 10-mile nominal visual range when the relative humidity is less than 70 percent.
9. This standard is equivalent to a 30-mile nominal visual range when the relative humidity is less than 70 percent.

## B. Area Designations for State Ambient Air Quality Standards

This section contains a description of the area designations for each pollutant for which there is a state ambient air quality standard. The information presented reflects the proposed area redesignations that the Board will consider in November 1994, pursuant to Section 39608 of the Health and Safety Code.

The designations are presented both in a map and a table format. Areas are identified on the tables as attainment, unclassified, nonattainment, or nonattainment-transitional for each pollutant as shown below:

|                            |   |
|----------------------------|---|
| Attainment                 | A |
| Unclassified               | U |
| Nonattainment              | N |
| Nonattainment-transitional | T |

Generally, the Board designates by air basin or county. However, when there are areas of an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, the Board may designate a smaller area. Where the boundaries of the designated area differ from the air basin or county, the description of these areas can be found in the footnotes at the bottom of each table.

Figure 1

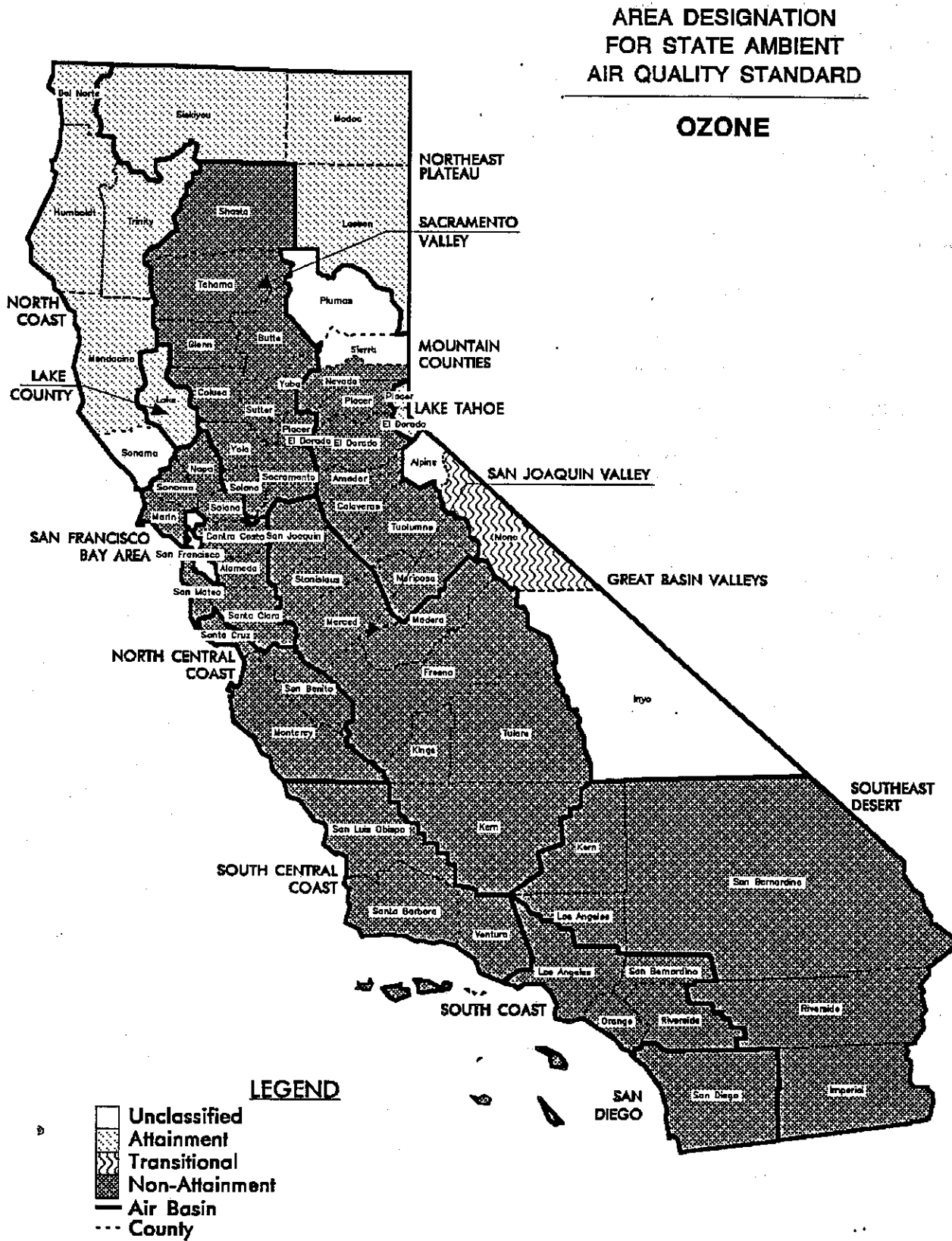


**TABLE 1**  
**Area Designations for Ozone**  
**California Ambient Air Quality Standard**

|                                         | N | T | U | A |                                            | N | T | U | A |
|-----------------------------------------|---|---|---|---|--------------------------------------------|---|---|---|---|
| <b>NORTH COAST AIR BASIN (NCAB)</b>     |   |   |   |   | <b>GREAT BASIN VALLEYS AIR BASIN CONT.</b> |   |   |   |   |
| Del Norte County                        |   |   |   | X | Inyo County                                |   |   | X |   |
| Humboldt County                         |   |   |   | X | Mono County                                |   | X |   |   |
| Mendocino County                        |   |   |   | X | <b>SOUTHEAST DESERT AIR BASIN</b>          | X |   |   |   |
| Sonoma County (NCAB portion)            |   |   | X |   | <b>MOUNTAIN COUNTIES AIR BASIN (MCAB)</b>  |   |   |   |   |
| Trinity County                          |   |   |   | X | Amador County                              | X |   |   |   |
| <b>SAN FRANCISCO BAY AREA AIR BASIN</b> | X |   |   |   | Calaveras County                           | X |   |   |   |
| <b>NORTH CENTRAL COAST AIR BASIN</b>    | X |   |   |   | El Dorado County (MCAB portion)            | X |   |   |   |
| <b>SOUTH CENTRAL COAST AIR BASIN</b>    | X |   |   |   | Mariposa County                            | X |   |   |   |
| <b>SOUTH COAST AIR BASIN</b>            | X |   |   |   | Nevada County                              | X |   |   |   |
| <b>SAN DIEGO AIR BASIN</b>              | X |   |   |   | Placer County (MCAB portion)               | X |   |   |   |
| <b>NORTHEAST PLATEAU AIR BASIN</b>      |   |   |   | X | Plumas County                              |   |   | X |   |
| <b>SACRAMENTO VALLEY AIR BASIN</b>      | X |   |   |   | Sierra County                              |   |   | X |   |
| <b>SAN JOAQUIN VALLEY AIR BASIN</b>     | X |   |   |   | Tuolumne County                            | X |   |   |   |
| <b>GREAT BASIN VALLEYS AIR BASIN</b>    |   |   |   |   | <b>LAKE COUNTY AIR BASIN</b>               |   |   |   | X |
| Alpine County                           |   |   | X |   | <b>LAKE TAHOE AIR BASIN</b>                |   |   |   | X |

**AREA DESIGNATION  
FOR STATE AMBIENT  
AIR QUALITY STANDARD**

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**CARBON MONOXIDE**

Note: Circular areas denote general location. See Table 2 for area description.

**LEGEND**

- Unclassified
- Attainment
- Transitional
- Non-Attainment
- Air Basin
- County

**TABLE 2**  
**Area Designations for Carbon Monoxide**  
**California Ambient Air Quality Standard**

|                                           | N | T | U | A |                                             | N | T | U | A |
|-------------------------------------------|---|---|---|---|---------------------------------------------|---|---|---|---|
| <b>NORTH COAST AIR BASIN (NCAB)</b>       |   |   |   |   | <b>SAN JOAQUIN VALLEY AIR BASIN (SJVAB)</b> |   |   |   |   |
| Del Norte County                          |   |   | X |   | Fresno County                               |   |   |   |   |
| Humboldt County                           |   |   |   | X | -Fresno Urbanized Area (3)                  | X |   |   |   |
| Mendocino County                          |   |   |   | X | -Remainder of County                        |   |   |   | X |
| Sonoma County (NCAB portion)              |   |   | X |   | Kern County (SJVAB portion)                 |   |   |   | X |
| Trinity County                            |   |   | X |   | Kings County                                |   |   | X |   |
| <b>SAN FRANCISCO BAY AREA AIR BASIN</b>   |   |   |   | X | Madera County                               |   |   | X |   |
| <b>NORTH CENTRAL COAST AIR BASIN</b>      |   |   |   |   | Merced County                               |   |   | X |   |
| Monterey County                           |   |   |   | X | San Joaquin County                          |   |   |   | X |
| San Benito County                         |   |   | X |   | Stanislaus County                           |   |   |   | X |
| Santa Cruz County                         |   |   | X |   | Tulare County                               |   |   |   | X |
| <b>SOUTH CENTRAL COAST AIR BASIN</b>      |   |   |   | X | <b>GREAT BASIN VALLEYS AIR BASIN</b>        |   |   |   |   |
| <b>SOUTH COAST AIR BASIN (SCAB)</b>       |   |   |   |   | Alpine County                               |   |   | X |   |
| Los Angeles County (SCAB portion)         | X |   |   |   | Inyo County                                 |   |   | X |   |
| Orange County                             |   |   |   | X | Mono County                                 |   |   |   | X |
| Riverside County (SCAB portion)           |   |   |   | X | <b>SOUTHEAST DESERT AIR BASIN (SEDAB)</b>   |   |   |   |   |
| San Bernardino County (SCAB portion)      |   |   |   | X | Imperial County                             |   |   | X |   |
| <b>SAN DIEGO AIR BASIN</b>                |   |   |   | X | Kern County (SEDAB portion)                 |   |   | X |   |
| <b>NORTHEAST PLATEAU AIR BASIN</b>        |   |   | X |   | Los Angeles County (SEDAB portion)          |   |   |   | X |
| <b>SACRAMENTO VALLEY AIR BASIN (SVAB)</b> |   |   |   |   | Riverside County (SEDAB portion)            |   |   |   | X |
| Butte County                              |   |   |   |   | San Bernardino County (SEDAB portion)       |   |   |   | X |
| -Chico Urbanized Area (1)                 | X |   |   |   | <b>MOUNTAIN COUNTIES AIR BASIN (MCAB)</b>   |   |   |   |   |
| -Remainder of County                      |   |   | X |   | Amador County                               |   |   | X |   |
| Colusa County                             |   |   | X |   | Calaveras County                            |   |   | X |   |
| Glenn County                              |   |   | X |   | El Dorado County (MCAB portion)             |   |   | X |   |
| Placer County (SVAB portion)              |   |   | X |   | Mariposa County                             |   |   | X |   |
| Sacramento County                         |   |   |   |   | Nevada County                               |   |   | X |   |
| -Sacramento Urbanized Area (2)            | X |   |   |   | Placer County (MCAB portion)                |   |   | X |   |
| -Remainder of County                      |   |   |   | X | Plumas County                               |   |   |   | X |
| Shasta County                             |   |   | X |   | Sierra County                               |   |   | X |   |
| Solano County (SVAB portion)              |   |   |   | X | Tuolumne County                             |   |   | X |   |
| Sutter County                             |   |   | X |   | <b>LAKE COUNTY AIR BASIN</b>                |   |   |   | X |
| Tehama County                             |   |   | X |   | <b>LAKE TAHOE AIR BASIN (LTAB)</b>          |   |   |   |   |
| Yolo County                               |   |   |   | X | El Dorado County (LTAB portion)             | X |   |   |   |
| Yuba County                               |   |   | X |   | Placer County (LTAB portion)                |   |   | X |   |

- (1) 49 Federal Register 20652 (May 16, 1984)  
(2) 56 Federal Register 56724 (November 6, 1991)  
(3) 50 Federal Register 47735 (November 20, 1985)

Figure 3

AREA DESIGNATION  
FOR STATE AMBIENT  
AIR QUALITY STANDARD

**NITROGEN DIOXIDE**

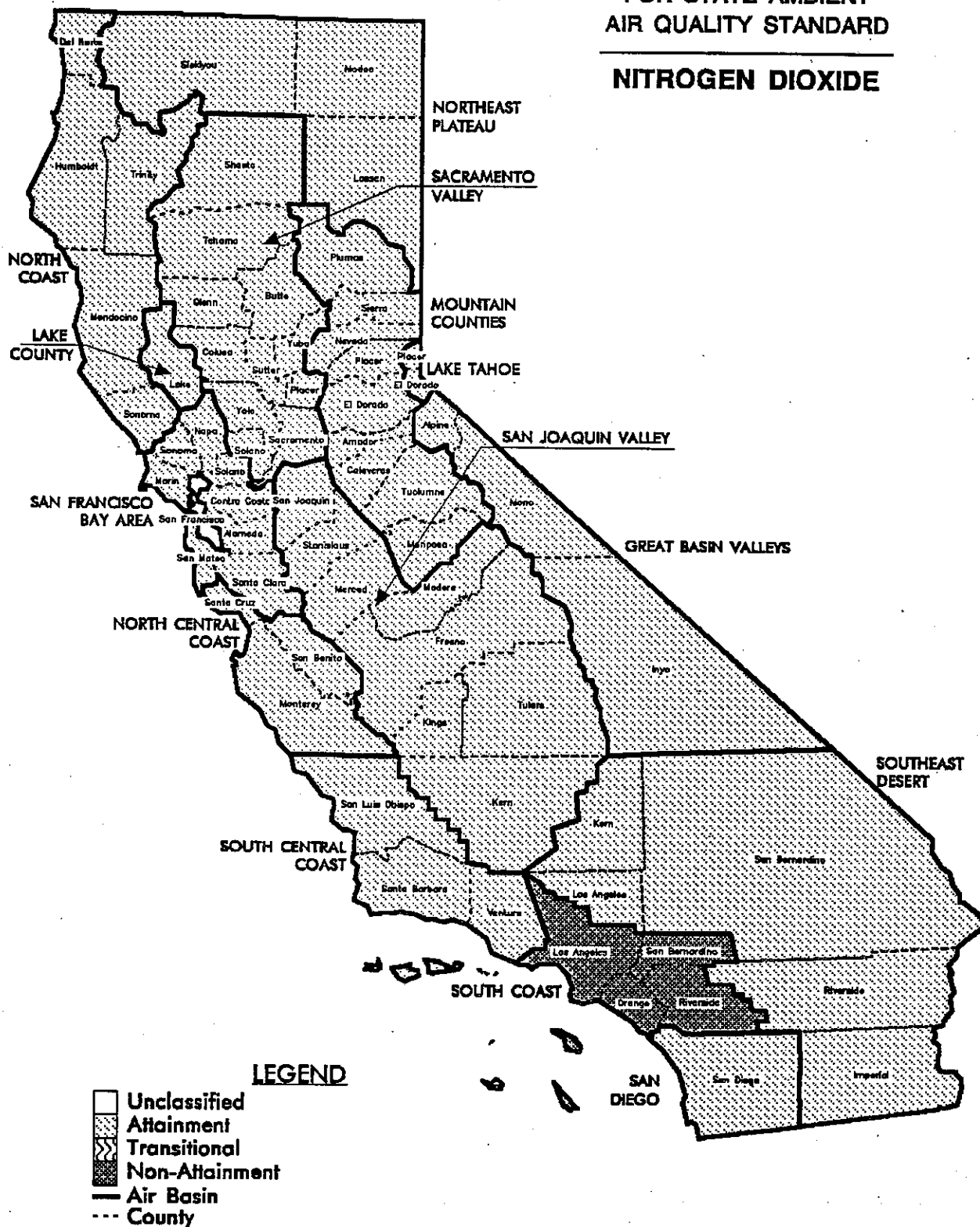


**TABLE 3**  
**Area Designations for Nitrogen Dioxide**  
**California Ambient Air Quality Standard**

|                                  | N | T | U | A |                               | N | T | U | A |
|----------------------------------|---|---|---|---|-------------------------------|---|---|---|---|
| NORTH COAST AIR BASIN            |   |   |   | X | SACRAMENTO VALLEY AIR BASIN   |   |   |   | X |
| SAN FRANCISCO BAY AREA AIR BASIN |   |   |   | X | SAN JOAQUIN VALLEY AIR BASIN  |   |   |   | X |
| NORTH CENTRAL COAST AIR BASIN    |   |   |   | X | GREAT BASIN VALLEYS AIR BASIN |   |   |   | X |
| SOUTH CENTRAL COAST AIR BASIN    |   |   |   | X | SOUTHEAST DESERT AIR BASIN    |   |   |   | X |
| SOUTH COAST AIR BASIN            | X |   |   |   | MOUNTAIN COUNTIES AIR BASIN   |   |   |   | X |
| SAN DIEGO AIR BASIN              |   |   |   | X | LAKE COUNTY AIR BASIN         |   |   |   | X |
| NORTHEAST PLATEAU AIR BASIN      |   |   |   | X | LAKE TAHOE AIR BASIN          |   |   |   | X |

Figure 4

AREA DESIGNATION  
FOR STATE AMBIENT  
AIR QUALITY STANDARD

**SULFUR DIOXIDE**

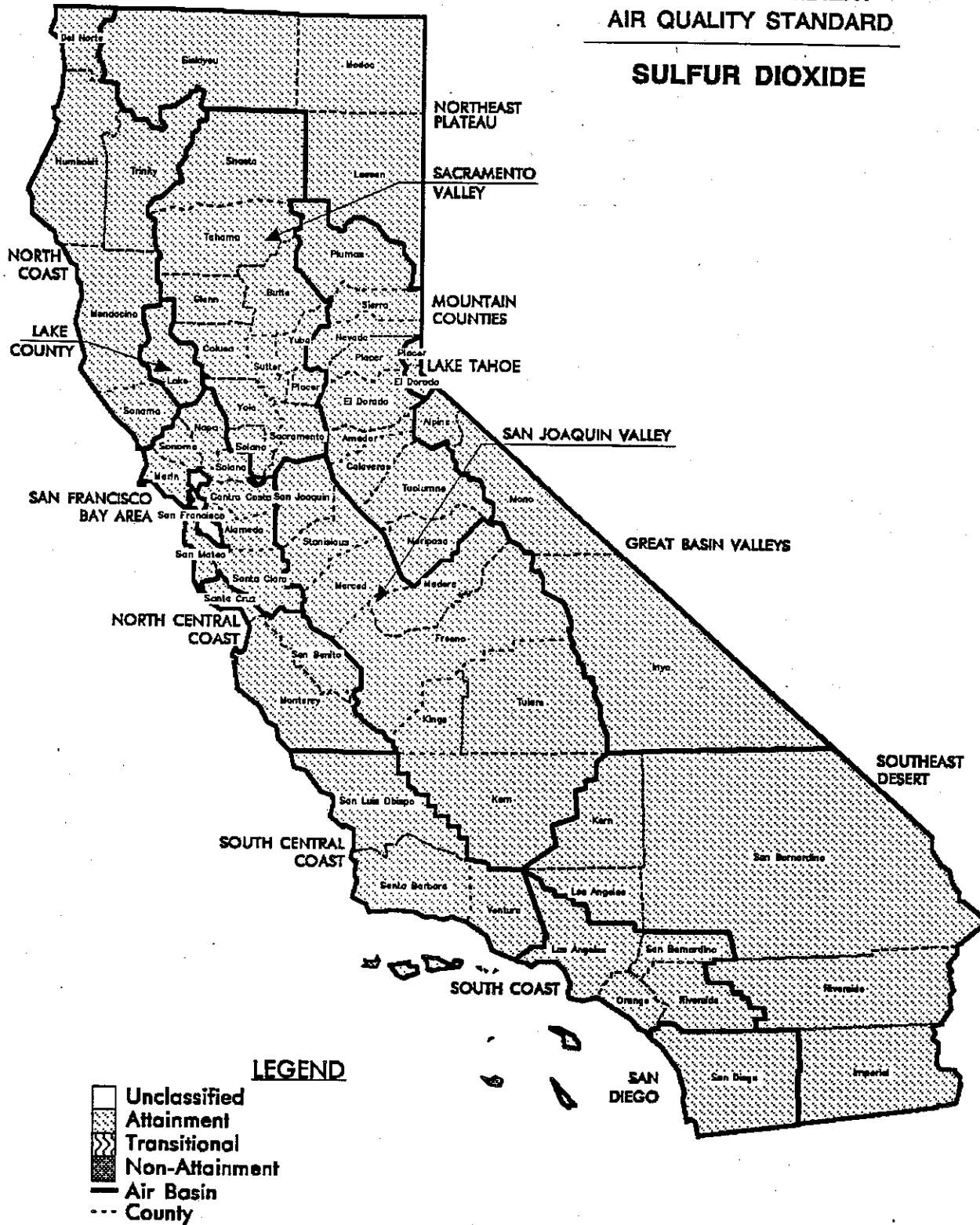


**TABLE 4**  
**Area Designations for Sulfur Dioxide**  
**California Ambient Air Quality Standard**

|                                  | N | T | U | A |                                    | N | T | U | A |
|----------------------------------|---|---|---|---|------------------------------------|---|---|---|---|
| NORTH COAST AIR BASIN            |   |   |   | X | SACRAMENTO VALLEY AIR BASIN        |   |   |   | X |
| SAN FRANCISCO BAY AREA AIR BASIN |   |   |   | X | SAN JOAQUIN VALLEY AIR BASIN       |   |   |   | X |
| NORTH CENTRAL COAST AIR BASIN    |   |   |   | X | GREAT BASIN VALLEYS AIR BASIN      |   |   |   | X |
| SOUTH CENTRAL COAST AIR BASIN    |   |   |   | X | SOUTHEAST DESERT AIR BASIN (SEDAB) |   |   |   | X |
| SOUTH COAST AIR BASIN            |   |   |   | X | MOUNTAIN COUNTIES AIR BASIN        |   |   |   | X |
| SAN DIEGO AIR BASIN              |   |   |   | X | LAKE COUNTY AIR BASIN              |   |   |   | X |
| NORTHEAST PLATEAU AIR BASIN      |   |   |   | X | LAKE TAHOE AIR BASIN               |   |   |   | X |

Figure 5

AREA DESIGNATION  
FOR STATE AMBIENT  
AIR QUALITY STANDARD

PM10

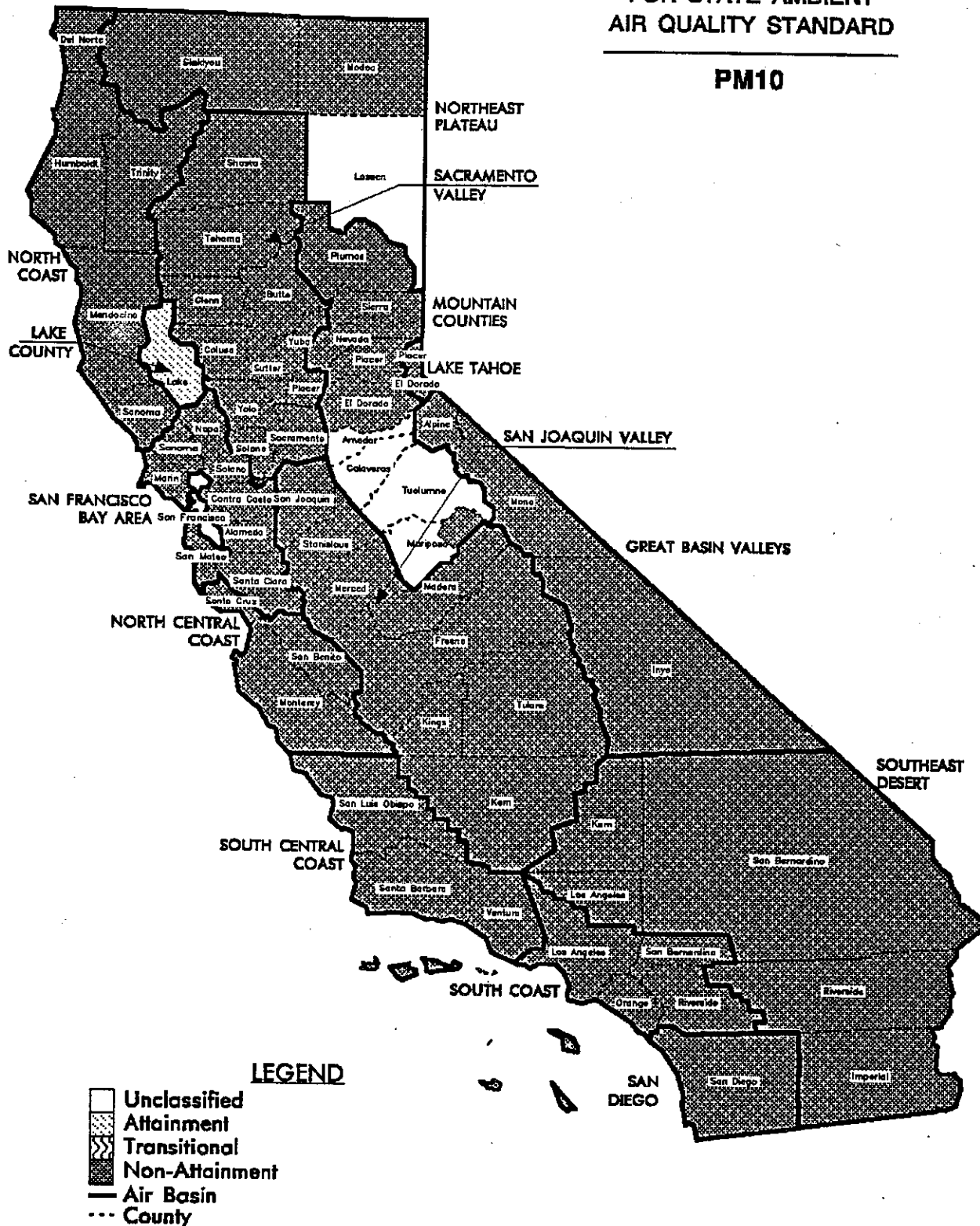


**TABLE 5**  
**Area Designations for Suspended Particulate Matter (PM 10)**  
**California Ambient Air Quality Standard**

|                                  | N | T | U | A |                                    | N | T | U | A |
|----------------------------------|---|---|---|---|------------------------------------|---|---|---|---|
| NORTH COAST AIR BASIN            | X |   |   |   | MOUNTAIN COUNTIES AIR BASIN (MCAB) |   |   |   |   |
| SAN FRANCISCO BAY AREA AIR BASIN | X |   |   |   | Amador County                      |   |   | X |   |
| NORTH CENTRAL COAST AIR BASIN    | X |   |   |   | Calaveras County                   |   |   | X |   |
| SOUTH CENTRAL COAST AIR BASIN    | X |   |   |   | El Dorado County (MCAB portion)    | X |   |   |   |
| SOUTH COAST AIR BASIN            | X |   |   |   | Mariposa County                    |   |   |   |   |
| SAN DIEGO AIR BASIN              | X |   |   |   | -Yosemite National Park            | X |   |   |   |
| NORTHEAST PLATEAU AIR BASIN      |   |   |   |   | -Remainder of County               |   |   | X |   |
| Lassen County                    |   |   | X |   | Nevada County                      | X |   |   |   |
| Modoc County                     | X |   |   |   | Placer County (MCAB portion)       | X |   |   |   |
| Siskiyou County                  | X |   |   |   | Plumas County                      | X |   |   |   |
| SACRAMENTO VALLEY AIR BASIN      | X |   |   |   | Sierra County                      | X |   |   |   |
| SAN JOAQUIN VALLEY AIR BASIN     | X |   |   |   | Tuolumne County                    |   |   | X |   |
| GREAT BASIN VALLEYS AIR BASIN    | X |   |   |   | LAKE COUNTY AIR BASIN              |   |   |   | X |
| SOUTHEAST DESERT AIR BASIN       | X |   |   |   | LAKE TAHOE AIR BASIN               | X |   |   |   |

Figure 6

AREA DESIGNATION  
FOR STATE AMBIENT  
AIR QUALITY STANDARD

**SULFATES**

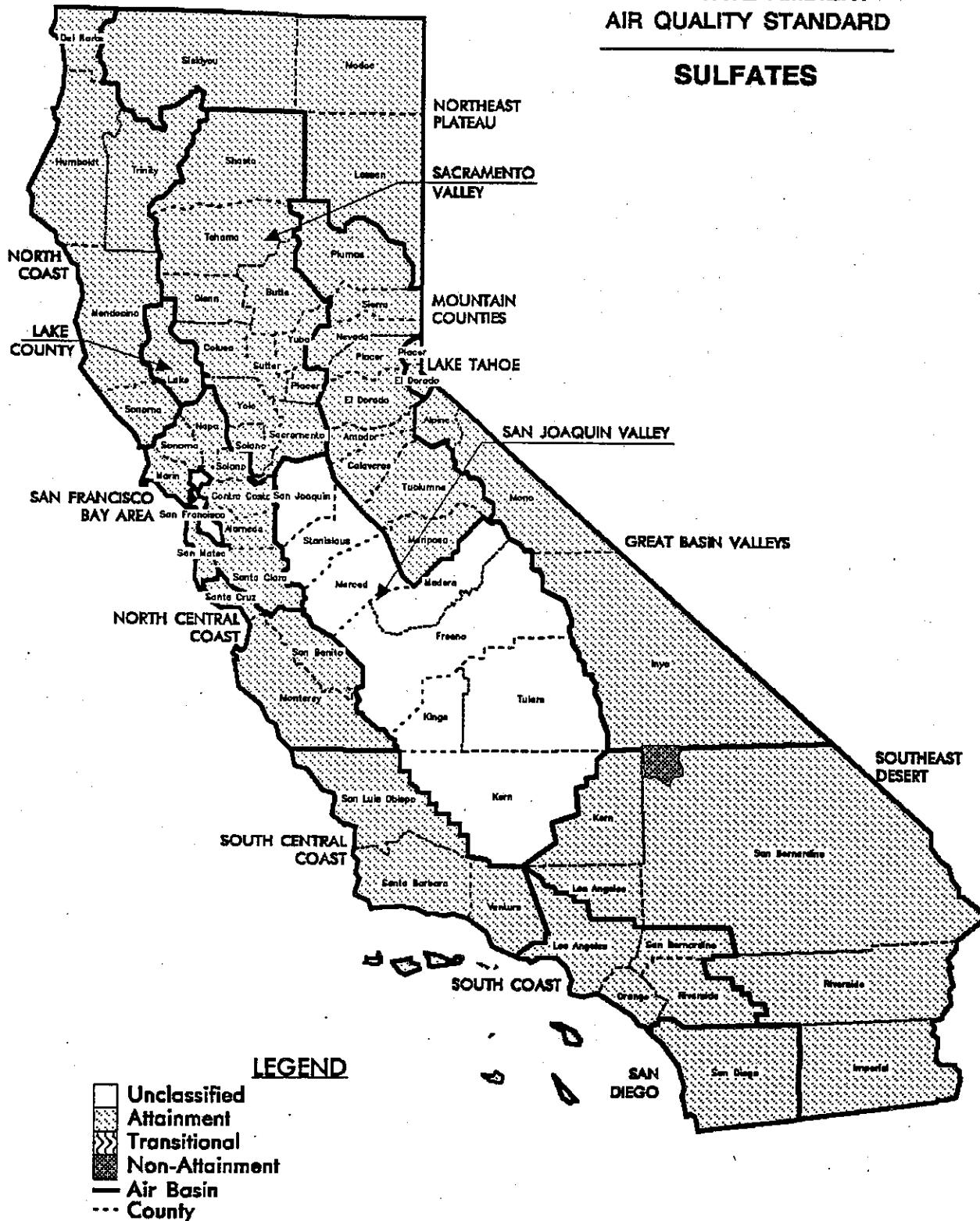


**TABLE 6**  
**Area Designations for Sulfates**  
**California Ambient Air Quality Standard**

|                                  | N | T | U | A |                                       | N | T | U | A |
|----------------------------------|---|---|---|---|---------------------------------------|---|---|---|---|
| NORTH COAST AIR BASIN            |   |   |   | X | SOUTHEAST DESERT AIR BASIN (SEDAB)    |   |   |   |   |
| SAN FRANCISCO BAY AREA AIR BASIN |   |   |   | X | Imperial County                       |   |   |   | X |
| NORTH CENTRAL COAST AIR BASIN    |   |   |   | X | Kern County (SEDAB portion)           |   |   |   | X |
| SOUTH CENTRAL COAST AIR BASIN    |   |   |   | X | Los Angeles County (SEDAB portion)    |   |   |   | X |
| SOUTH COAST AIR BASIN            |   |   |   | X | Riverside County (SEDAB portion)      |   |   |   | X |
| SAN DIEGO AIR BASIN              |   |   |   | X | San Bernardino County (SEDAB portion) |   |   |   |   |
| NORTHEAST PLATEAU AIR BASIN      |   |   |   | X | -Searles Valley Planning Area (1)     | X |   |   |   |
| SACRAMENTO VALLEY AIR BASIN      |   |   |   | X | -Remainder of County                  |   |   |   | X |
| SAN JOAQUIN VALLEY AIR BASIN     |   |   | X |   | MOUNTAIN COUNTIES AIR BASIN           |   |   |   | X |
| GREAT BASIN VALLEYS AIR BASIN    |   |   |   | X | LAKE COUNTY AIR BASIN                 |   |   |   | X |
|                                  |   |   |   |   | LAKE TAHOE AIR BASIN                  |   |   |   | X |

(1) 52 Federal Register 29384 (August 7, 1987)

Figure 7

AREA DESIGNATION  
FOR STATE AMBIENT  
AIR QUALITY STANDARD

LEAD

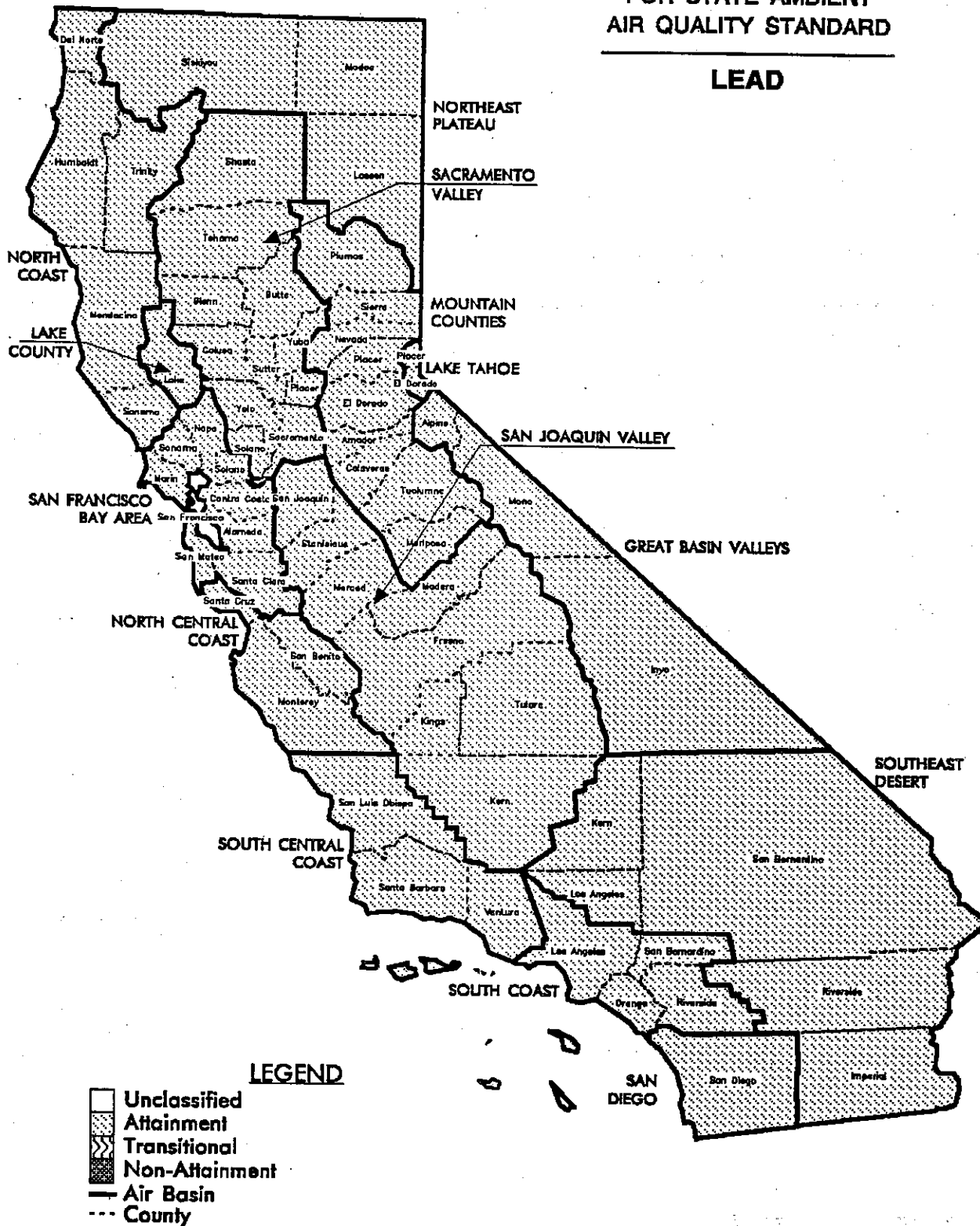


**TABLE 7**  
**Area Designations for Lead (particulate)**  
**California Ambient Air Quality Standard**

|                                  | N | T | U | A |                               | N | T | U | A |
|----------------------------------|---|---|---|---|-------------------------------|---|---|---|---|
| NORTH COAST AIR BASIN            |   |   |   | X | SACRAMENTO VALLEY AIR BASIN   |   |   |   | X |
| SAN FRANCISCO BAY AREA AIR BASIN |   |   |   | X | SAN JOAQUIN VALLEY AIR BASIN  |   |   |   | X |
| NORTH CENTRAL COAST AIR BASIN    |   |   |   | X | GREAT BASIN VALLEYS AIR BASIN |   |   |   | X |
| SOUTH CENTRAL COAST AIR BASIN    |   |   |   | X | SOUTHEAST DESERT AIR BASIN    |   |   |   | X |
| SOUTH COAST AIR BASIN            |   |   |   | X | MOUNTAIN COUNTIES AIR BASIN   |   |   |   | X |
| SAN DIEGO AIR BASIN              |   |   |   | X | LAKE COUNTY AIR BASIN         |   |   |   | X |
| NORTHEAST PLATEAU AIR BASIN      |   |   |   | X | LAKE TAHOE AIR BASIN          |   |   |   | X |

Figure 8

**AREA DESIGNATION  
FOR STATE AMBIENT  
AIR QUALITY STANDARD**

**HYDROGEN SULFIDE**

Note: Circular areas denote general location. See Table 8 for area description.

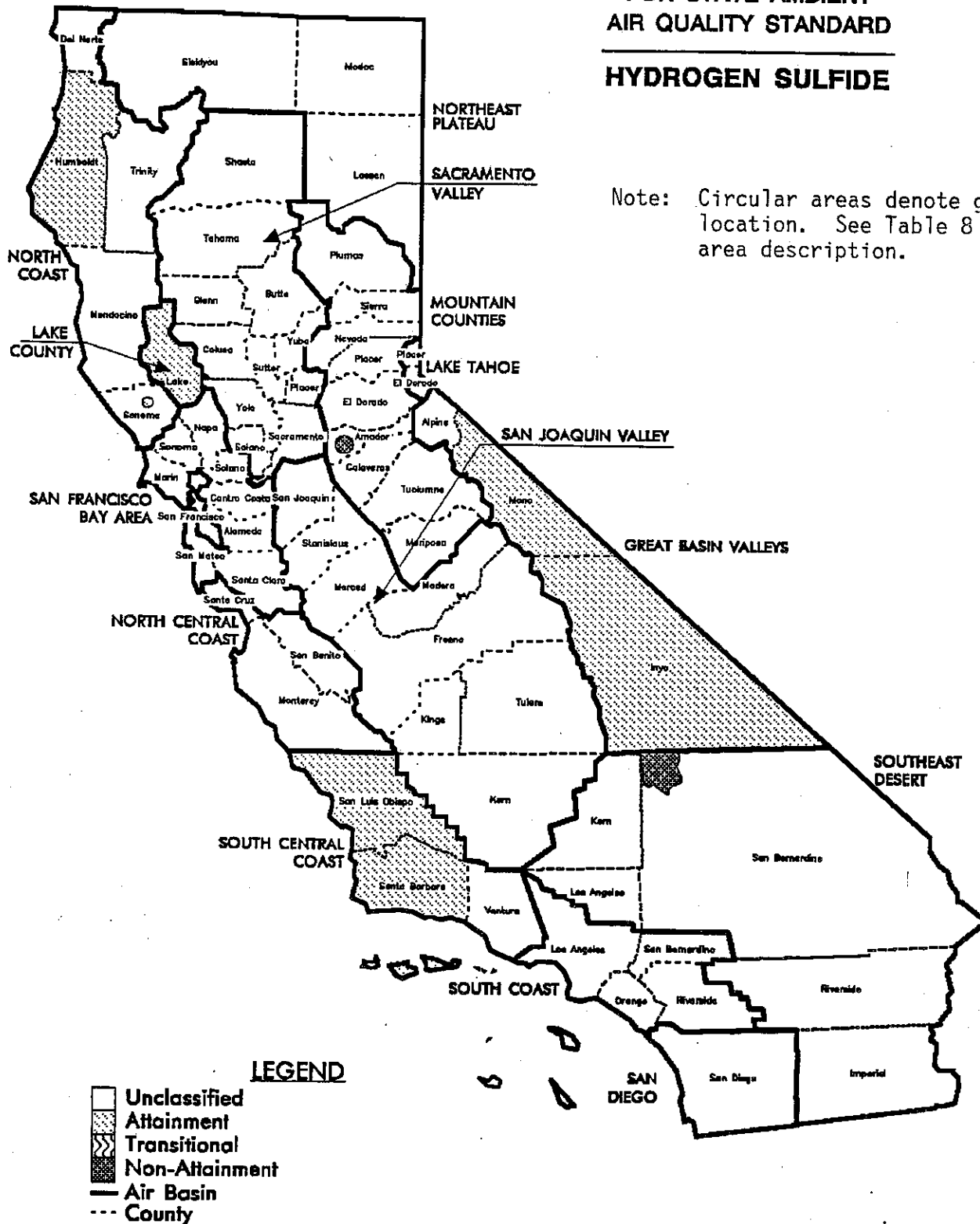


**TABLE 8**  
**Area Designations for Hydrogen Sulfide**  
**California Ambient Air Quality Standard**

|                                         | N | T | U | A |                                           | N | T | U | A |
|-----------------------------------------|---|---|---|---|-------------------------------------------|---|---|---|---|
| <b>NORTH COAST AIR BASIN (NCAB)</b>     |   |   |   |   | <b>SOUTHEAST DESERT AIR BASIN (SEDAB)</b> |   |   |   |   |
| Del Norte County                        |   |   | X |   | Imperial County                           |   |   | X |   |
| Humboldt County                         |   |   |   | X | Kern County (SEDAB portion)               |   |   | X |   |
| Mendocino County                        |   |   | X |   | Los Angeles County (SEDAB portion)        |   |   | X |   |
| Sonoma County (NCAB portion)            |   |   |   |   | Riverside County (SEDAB portion)          |   |   | X |   |
| -Geyser Geothermal Area (1)             |   |   |   | X | San Bernardino County (SEDAB portion)     |   |   |   |   |
| -Remainder of County                    |   |   | X |   | -Searles Valley Planning Area (2)         | X |   |   |   |
| Trinity County                          |   |   | X |   | -Remainder of County                      |   |   | X |   |
| <b>SAN FRANCISCO BAY AREA AIR BASIN</b> |   |   | X |   | <b>MOUNTAIN COUNTIES AIR BASIN (MCAB)</b> |   |   |   |   |
| <b>NORTH CENTRAL COAST AIR BASIN</b>    |   |   | X |   | Amador County                             |   |   |   |   |
| <b>SOUTH CENTRAL COAST AIR BASIN</b>    |   |   |   |   | -City of Sutter Creek                     | X |   |   |   |
| San Luis Obispo County                  |   |   |   | X | -Remainder of County                      |   |   | X |   |
| Santa Barbara County                    |   |   |   | X | Calaveras County                          |   |   | X |   |
| Ventura County                          |   |   | X |   | El Dorado County (MCAB portion)           |   |   | X |   |
| <b>SOUTH COAST AIR BASIN</b>            |   |   | X |   | Mariposa County                           |   |   | X |   |
| <b>SAN DIEGO AIR BASIN</b>              |   |   | X |   | Nevada County                             |   |   | X |   |
| <b>NORTHEAST PLATEAU AIR BASIN</b>      |   |   | X |   | Placer County (MCAB portion)              |   |   | X |   |
| <b>SACRAMENTO VALLEY AIR BASIN</b>      |   |   | X |   | Plumas County                             |   |   | X |   |
| <b>SAN JOAQUIN VALLEY AIR BASIN</b>     |   |   | X |   | Sierra County                             |   |   | X |   |
| <b>GREAT BASIN VALLEYS AIR BASIN</b>    |   |   |   |   | Tuolumne County                           |   |   | X |   |
| Alpine County                           |   |   | X |   | <b>LAKE COUNTY AIR BASIN</b>              |   |   |   | X |
| Mono County                             |   |   |   | X | <b>LAKE TAHOE AIR BASIN</b>               |   |   | X |   |
| Inyo County                             |   |   | X |   |                                           |   |   |   |   |

(1) Title 17, California Code of Regulations, Section 60200

(2) 52 Federal Register 29384 (August 7, 1987)

Figure 9

AREA DESIGNATION  
FOR STATE AMBIENT  
AIR QUALITY STANDARD

VISIBILITY REDUCING  
PARTICLES



**TABLE 9**  
**Area Designations for Visibility Reducing Particles**  
**California Ambient Air Quality Standard**

|                                  | N | T | U | A |                               | N | T | U | A |
|----------------------------------|---|---|---|---|-------------------------------|---|---|---|---|
| NORTH COAST AIR BASIN            |   |   | X |   | SACRAMENTO VALLEY AIR BASIN   |   |   | X |   |
| SAN FRANCISCO BAY AREA AIR BASIN |   |   | X |   | SAN JOAQUIN VALLEY AIR BASIN  |   |   | X |   |
| NORTH CENTRAL COAST AIR BASIN    |   |   | X |   | GREAT BASIN VALLEYS AIR BASIN |   |   | X |   |
| SOUTH CENTRAL COAST AIR BASIN    |   |   | X |   | SOUTHEAST DESERT AIR BASIN    |   |   | X |   |
| SOUTH COAST AIR BASIN            |   |   | X |   | MOUNTAIN COUNTIES AIR BASIN   |   |   | X |   |
| SAN DIEGO AIR BASIN              |   |   | X |   | LAKE COUNTY AIR BASIN         |   |   |   | X |
| NORTHEAST PLATEAU AIR BASIN      |   |   | X |   | LAKE TAHOE AIR BASIN          |   |   | X |   |

### C. Area Designations for National Ambient Air Quality Standards

This section contains a description, in both map and table format, of the designation of each area for each pollutant for which there is a national ambient air quality standard, except for lead. The national lead standard was promulgated after the Clean Air Act was amended in 1977, and the United State Environmental Protection Agency (U.S. EPA) in promulgating the standard for lead did not require areas to be designated in a manner similar to other pollutants. The designations are shown in both a map and table format.

The designations, as promulgated by U.S. EPA, appear in Title 40, Code of Federal Regulations, Part 81 (40 CFR 81). U.S. EPA's Region IX staff confirmed the accuracy of the national designations that are shown here.

The U.S. EPA designates areas for ozone, carbon monoxide, and nitrogen dioxide as either "Does not meet primary standards" or "Cannot be classified or better than national standards." Areas that do not meet primary standards are indicated on the following maps and tables as "N" for nonattainment, and those that cannot be classified or are better than the national standards are indicated as "UA" for unclassified/attainment.

The U.S. EPA designates areas for sulfur dioxide as "Does not meet the primary standards," "Does not meet the secondary standards," "Cannot be classified," or "Better than the national standards." In California, all areas meet the primary and the secondary standards. So the following map and table for sulfur dioxide only display those areas that cannot be classified, which are indicated as "U" for unclassifiable, and those that are better than the national standards, which are indicated as "A" for attainment.

In 1991, the U.S. EPA designated areas as nonattainment for the national suspended particulate matter (PM10) standards for the first time. Previously, areas had been designated as Group I, II, or III based on the likelihood that they would violate the national PM10 standards. Each former Group I area identified in 52 Federal Register 29383 (August 7, 1987), except for the extent modified before enactment of the Clean Air Act Amendments of 1990 (CAAA, November 15, 1990), was designated nonattainment for PM10 (see section 107(d)(4)(B)(i) of the CAAA). Any other area (i.e., Group II or III) violating the national PM10 standards (as determined by 40 CFR 50, Appendix K) was also designated as nonattainment for PM10 by operation of law upon enactment of the CAAA. All other areas were designated unclassifiable for PM10 by operation of law upon enactment of the CAAA. In addition, this attachment also reflects the designation of three new PM10 nonattainment areas, designated by U.S. EPA in November and December of 1993. In the map and table for PM10, nonattainment areas are identified with an "N" and "U" identifies unclassifiable areas.

From time to time, the borders of air basins within California have been changed to facilitate the planning process. These changes are initiated by the Board and are not always reflected in the U.S. EPA area designations. For purposes of consistency with Section B of this attachment, all of the

maps in this attachment use the current air basin borders as recognized by the Board. Specifically, the maps show the western portion of Placer County in the Sacramento Valley Air Basin while national designations put that portion of Placer County in the Mountain Counties Air Basin. The tables reflect the designations as promulgated by the U.S. EPA.

The U.S. EPA uses several different planning areas that are distinct from California regions. In the following tables, there are several references to various air quality maintenance areas (AQMA). For a thorough discussion of AQMAs, refer to 40 CFR 51. The following tables also refer to air quality control regions (AQCR). For a discussion and definitions of AQCRs refer to 40 CFR 81.

Unless otherwise noted, a designation for an "urbanized" area refers to the U.S. Census Bureau definition of the urbanized area. In several cases, the U.S. EPA designations refer to specific areas that are not defined by political boundary lines. For a description of these areas, see the footnotes located at the bottom of the tables.

Figure 10

**AREA DESIGNATION  
FOR NATIONAL AMBIENT  
AIR QUALITY STANDARD**

**OZONE**

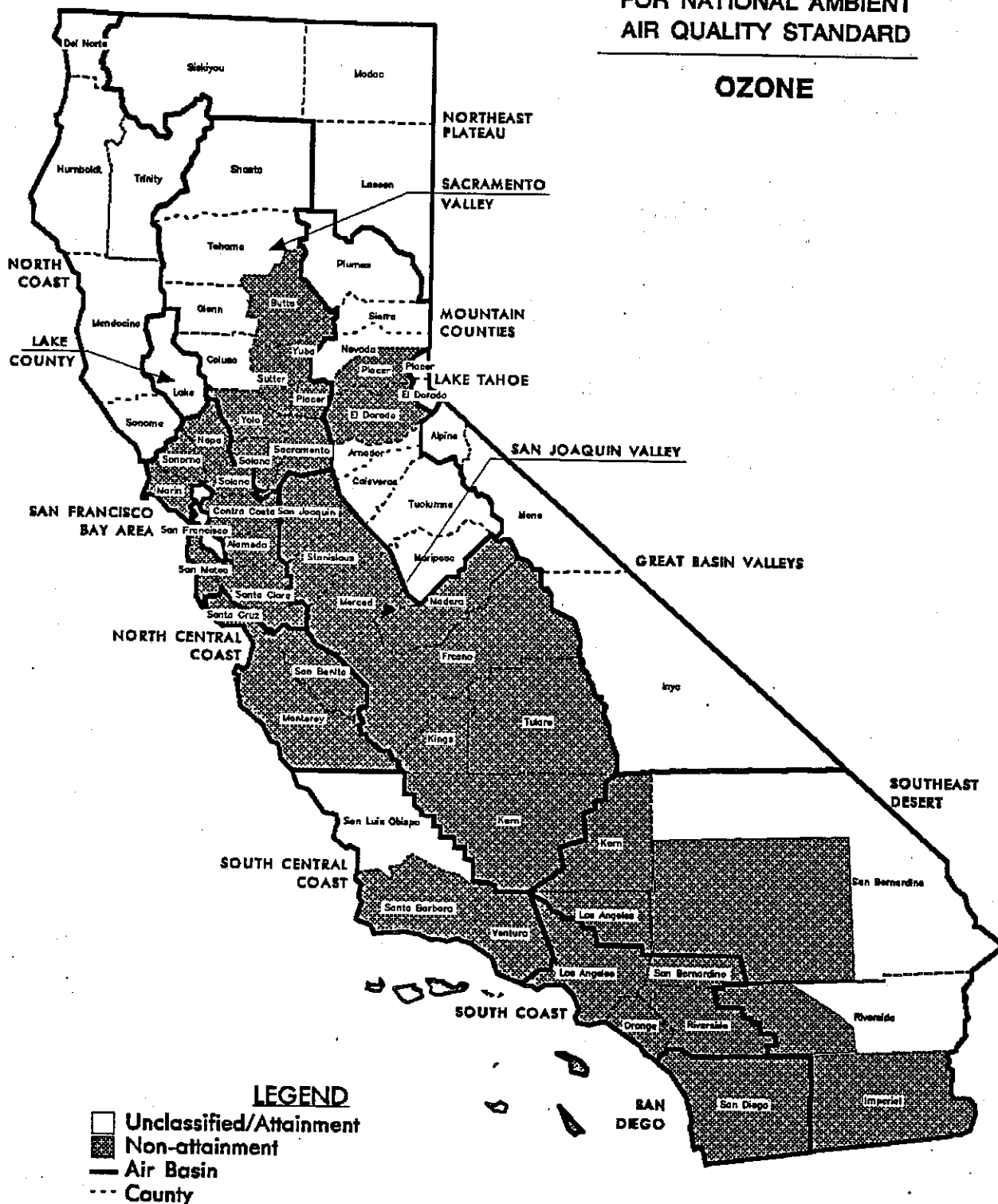


**TABLE 10**  
**Area Designations for Ozone**  
**National Ambient Air Quality Standard**

|                                    | N | U/A |                                       | N | U/A |
|------------------------------------|---|-----|---------------------------------------|---|-----|
| NORTH COAST AIR BASIN              |   | X   | SAN JOAQUIN VALLEY AIR BASIN          | X |     |
| SAN FRANCISCO BAY AREA AIR BASIN   | X |     | GREAT BASIN VALLEYS AIR BASIN         |   | X   |
| NORTH CENTRAL COAST AIR BASIN      | X |     | SOUTHEAST DESERT AIR BASIN (SEDAB)    |   |     |
| SOUTH CENTRAL COAST AIR BASIN      |   |     | Imperial County                       | X |     |
| San Luis Obispo County             |   | X   | Kern County (SEDAB portion)           | X |     |
| Santa Barbara County               | X |     | Los Angeles County (SEDAB portion)    | X |     |
| Ventura County                     | X |     | Riverside County (SEDAB portion)      |   |     |
| Channel Islands (1)                |   | X   | -Western portion                      | X |     |
| SOUTH COAST AIR BASIN              | X |     | -Eastern portion                      |   | X   |
| SAN DIEGO AIR BASIN                | X |     | San Bernardino County (SEDAB portion) |   |     |
| NORTHEAST PLATEAU AIR BASIN        |   | X   | -Western portion                      | X |     |
| SACRAMENTO VALLEY AIR BASIN (SVAB) |   |     | -Eastern portion                      |   | X   |
| Butte County                       | X |     | MOUNTAIN COUNTIES AIR BASIN (MCAB)    |   |     |
| Colusa County                      |   | X   | Amador County                         |   | X   |
| Glenn County                       |   | X   | Calaveras County                      |   | X   |
| Placer County (SVAB portion)(2)    | X |     | El Dorado County (MCAB portion)(2)    | X |     |
| Sacramento County                  | X |     | Mariposa County                       |   | X   |
| Shasta County                      |   | X   | Nevada County                         |   | X   |
| Solano County (SVAB portion)(2)    | X |     | Placer County (MCAB portion)(2)       | X |     |
| Sutter County (2)                  | X |     | Plumas County                         |   | X   |
| Tehama County                      |   | X   | Sierra County                         |   | X   |
| Yolo County                        | X |     | Tuolumne County                       |   | X   |
| Yuba County                        | X |     | LAKE COUNTY AIR BASIN                 |   | X   |
|                                    |   |     | LAKE TAHOE AIR BASIN                  |   | X   |

(1) Channel Islands Include:

For Santa Barbara County: Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

For Ventura County: Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of the South Coast Air Basin and as such are designated nonattainment for the national ozone standard.

(2) The Sacramento Valley Area Air Quality Maintenance Area (SVA AQMA) includes: all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, all of El Dorado and Placer Counties except for the Lake Tahoe Air Basin Portions, and the southern portion of Sutter County (56 Federal Register 56728 (November 6, 1991)).

Figure 11

**AREA DESIGNATION  
FOR NATIONAL AMBIENT  
AIR QUALITY STANDARD**

**CARBON MONOXIDE**

Note: Circular areas denote general location. See Table 11 for area description.

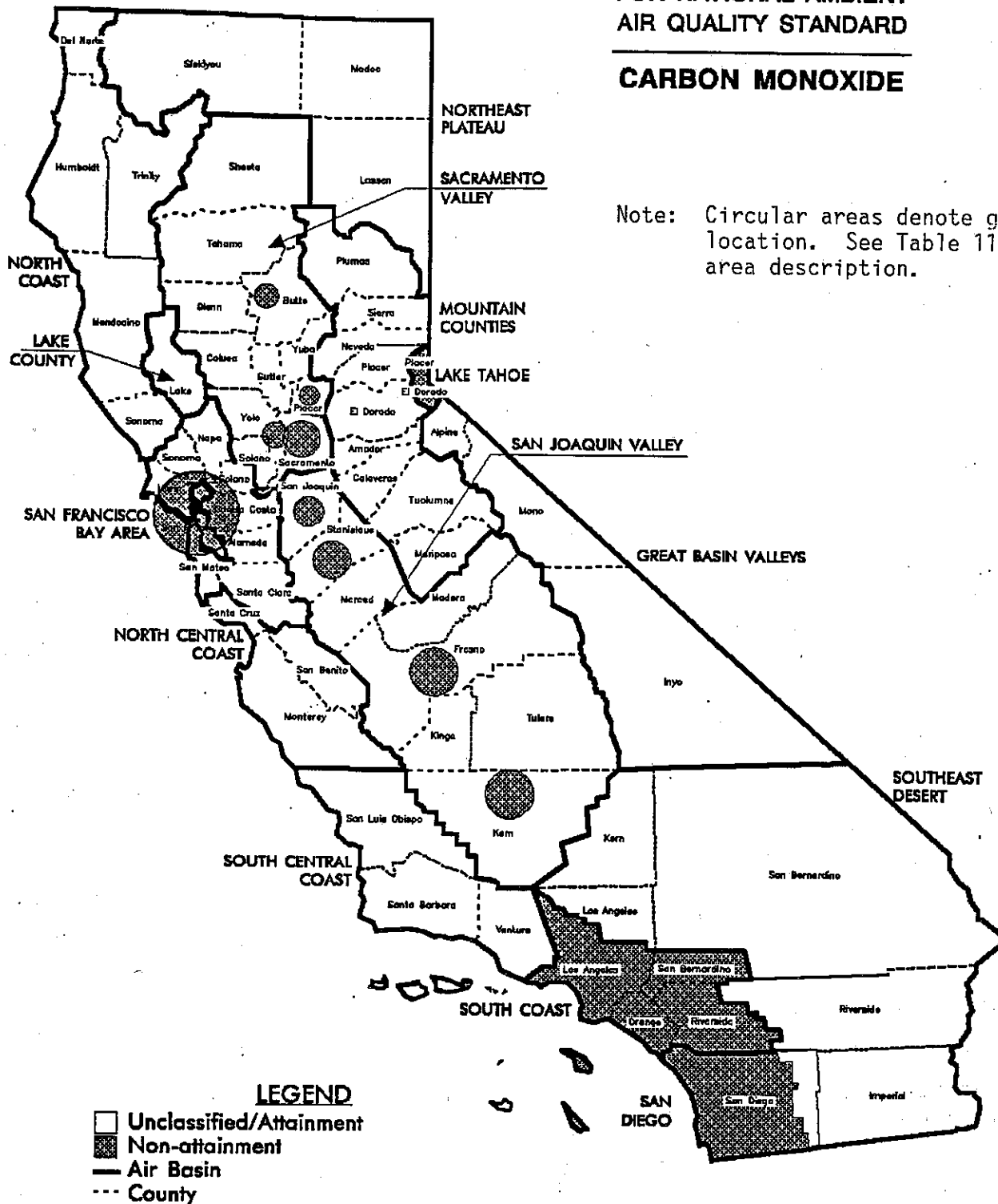


**TABLE 11**  
**Area Designations for Carbon Monoxide**  
**National Ambient Air Quality Standard**

|                                    | N | U/A |                                      | N | U/A |
|------------------------------------|---|-----|--------------------------------------|---|-----|
| NORTH COAST AIR BASIN              |   | X   | SACRAMENTO VALLEY AIR BASIN CONT.    |   |     |
| SAN FRANCISCO BAY AREA AIR BASIN   |   |     | Yuba County                          |   | X   |
| -Urbanized Areas                   | X |     | SAN JOAQUIN VALLEY AIR BASIN (SJVAB) |   |     |
| -Remainder of Air Basin            |   | X   | Fresno County                        |   |     |
| NORTH CENTRAL COAST AIR BASIN      |   | X   | -Fresno Urbanized Area               | X |     |
| SOUTH CENTRAL COAST AIR BASIN      |   | X   | -Remainder of County                 |   | X   |
| SOUTH COAST AIR BASIN              | X |     | Kern County (SJVAB portion)          |   |     |
| SAN DIEGO AIR BASIN (1)            |   |     | -Bakersfield Metropolitan Area (2)   | X |     |
| West San Diego County              | X |     | -Remainder of County                 |   | X   |
| East San Diego County              |   | X   | Kings County                         |   | X   |
| NORTHEAST PLATEAU AIR BASIN        |   | X   | Madera County                        |   | X   |
| SACRAMENTO VALLEY AIR BASIN (SVAB) |   |     | Merced County                        |   | X   |
| Butte County                       |   |     | San Joaquin County                   |   |     |
| -Chico Urbanized Area              | X |     | -Stockton Urbanized Area             | X |     |
| -Remainder of County               |   | X   | -Remainder of County                 |   | X   |
| Colusa County                      |   | X   | Stanislaus County                    |   |     |
| Glenn County                       |   | X   | -Modesto Urbanized Area              | X |     |
| Sacramento County                  |   |     | -Remainder of County                 |   | X   |
| -Urbanized Areas                   | X |     | Tulare County                        |   | X   |
| -Remainder of County               |   | X   | GREAT BASIN VALLEYS AIR BASIN        |   | X   |
| Shasta County                      |   | X   | SOUTHEAST DESERT AIR BASIN           |   | X   |
| Solano County (SVAB portion)       |   | X   | MOUNTAIN COUNTIES AIR BASIN (MCAB)   |   | X   |
| Sutter County                      |   | X   | Placer County (SVAB portion)(3)      |   |     |
| Tehama County                      |   | X   | -Urbanized Areas                     | X |     |
| Yolo County                        |   |     | -Remainder of County                 |   | X   |
| -Urbanized Areas                   | X |     | LAKE COUNTY AIR BASIN                |   | X   |
| -Remainder of County               |   | X   | LAKE TAHOE AIR BASIN                 | X |     |

(1) 56 Federal Register 56724 (November 6, 1991)

(2) 47 Federal Register 3354 (January 25, 1982)

(3) U.S EPA designation puts the SVAB portion of Placer County in the MCAB.

Figure 12

**AREA DESIGNATION  
FOR NATIONAL AMBIENT  
AIR QUALITY STANDARD**

**NITROGEN DIOXIDE**

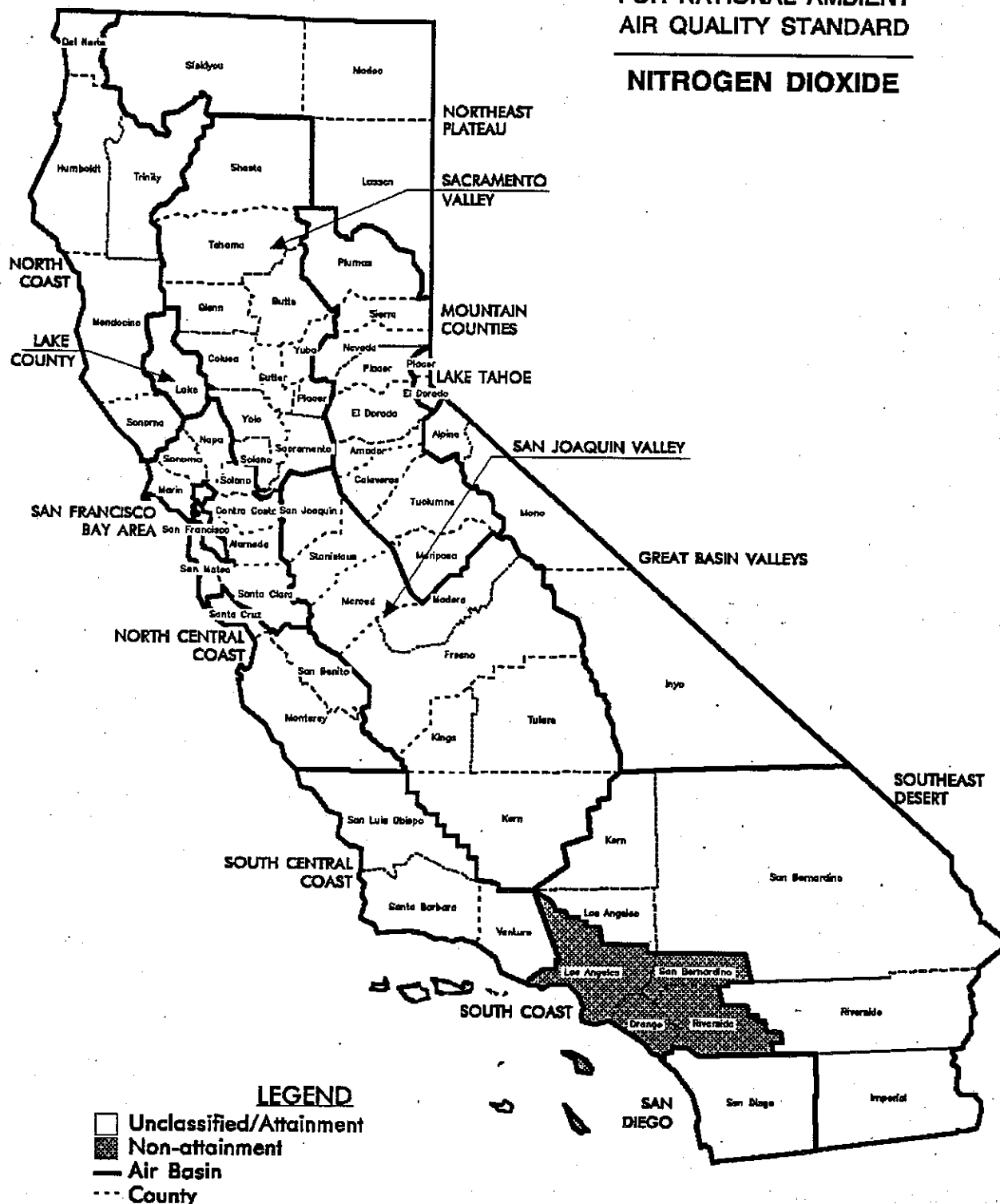


**TABLE 12**  
**Area Designations for Nitrogen Dioxide**  
**National Ambient Air Quality Standard**

|                                  | N | U/A |                               | N | U/A |
|----------------------------------|---|-----|-------------------------------|---|-----|
| NORTH COAST AIR BASIN            |   | X   | SACRAMENTO VALLEY AIR BASIN   |   | X   |
| SAN FRANCISCO BAY AREA AIR BASIN |   | X   | SAN JOAQUIN VALLEY AIR BASIN  |   | X   |
| NORTH CENTRAL COAST AIR BASIN    |   | X   | GREAT BASIN VALLEYS AIR BASIN |   | X   |
| SOUTH CENTRAL COAST AIR BASIN    |   | X   | SOUTHEAST DESERT AIR BASIN    |   | X   |
| SOUTH COAST AIR BASIN            | X |     | MOUNTAIN COUNTIES AIR BASIN   |   | X   |
| SAN DIEGO AIR BASIN              |   | X   | LAKE COUNTY AIR BASIN         |   | X   |
| NORTHEAST PLATEAU AIR BASIN      |   | X   | LAKE TAHOE AIR BASIN          |   | X   |

Figure 13

AREA DESIGNATION  
FOR NATIONAL AMBIENT  
AIR QUALITY STANDARD

**SULFUR DIOXIDE**

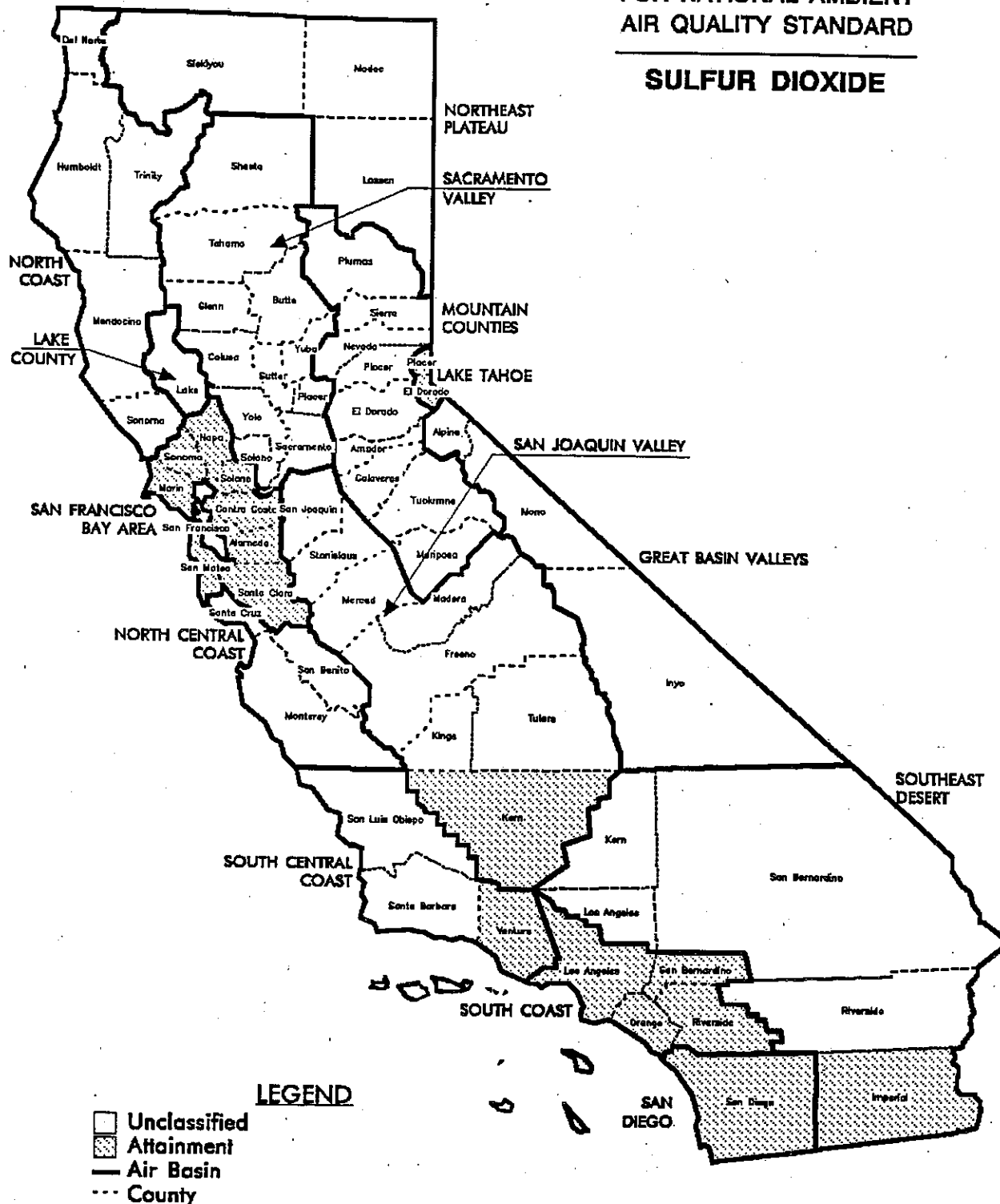


**TABLE 13**  
**Area Designations for Sulfur Dioxide**  
**National Ambient Air Quality Standard (1)**

|                                      | A | U |                                       | A | U |
|--------------------------------------|---|---|---------------------------------------|---|---|
| NORTH COAST AIR BASIN                |   | X | SAN JOAQUIN VALLEY AIR BASIN CONT.    |   |   |
| SAN FRANCISCO BAY AREA AIR BASIN     | X |   | Madera County                         |   | X |
| NORTH CENTRAL COAST AIR BASIN        |   | X | Merced County                         |   | X |
| SOUTH CENTRAL COAST AIR BASIN        |   |   | San Joaquin County                    |   | X |
| San Luis Obispo County               |   | X | Stanislaus County                     |   | X |
| Santa Barbara County                 |   | X | Tulare County                         |   | X |
| Ventura County                       | X |   | GREAT BASIN VALLEYS AIR BASIN         |   | X |
| Channel Islands (2)                  |   | X | SOUTHEAST DESERT AIR BASIN (SEDAB)    |   |   |
| SOUTH COAST AIR BASIN                | X |   | Imperial County                       | X |   |
| SAN DIEGO AIR BASIN                  | X |   | Kern County (SEDAB portion)           |   | X |
| NORTHEAST PLATEAU AIR BASIN          |   | X | Los Angeles County (SEDAB portion)    |   | X |
| SACRAMENTO VALLEY AIR BASIN          |   | X | Riverside County (SEDAB portion)      |   | X |
| SAN JOAQUIN VALLEY AIR BASIN (SJVAB) |   |   | San Bernardino County (SEDAB portion) |   | X |
| Fresno County                        |   | X | MOUNTAIN COUNTIES AIR BASIN           |   | X |
| Kern County (SJVAB portion)          | X |   | LAKE COUNTY AIR BASIN                 |   | X |
| Kings County                         |   | X | LAKE TAHOE AIR BASIN                  | X |   |

(1) There are no nonattainment areas in California.

(2) Channel Islands include:

For Santa Barbara County: Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

For Ventura County: Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of the South Coast Air Basin and as such are designated attainment for the national sulfur dioxide standard.

Figure 14

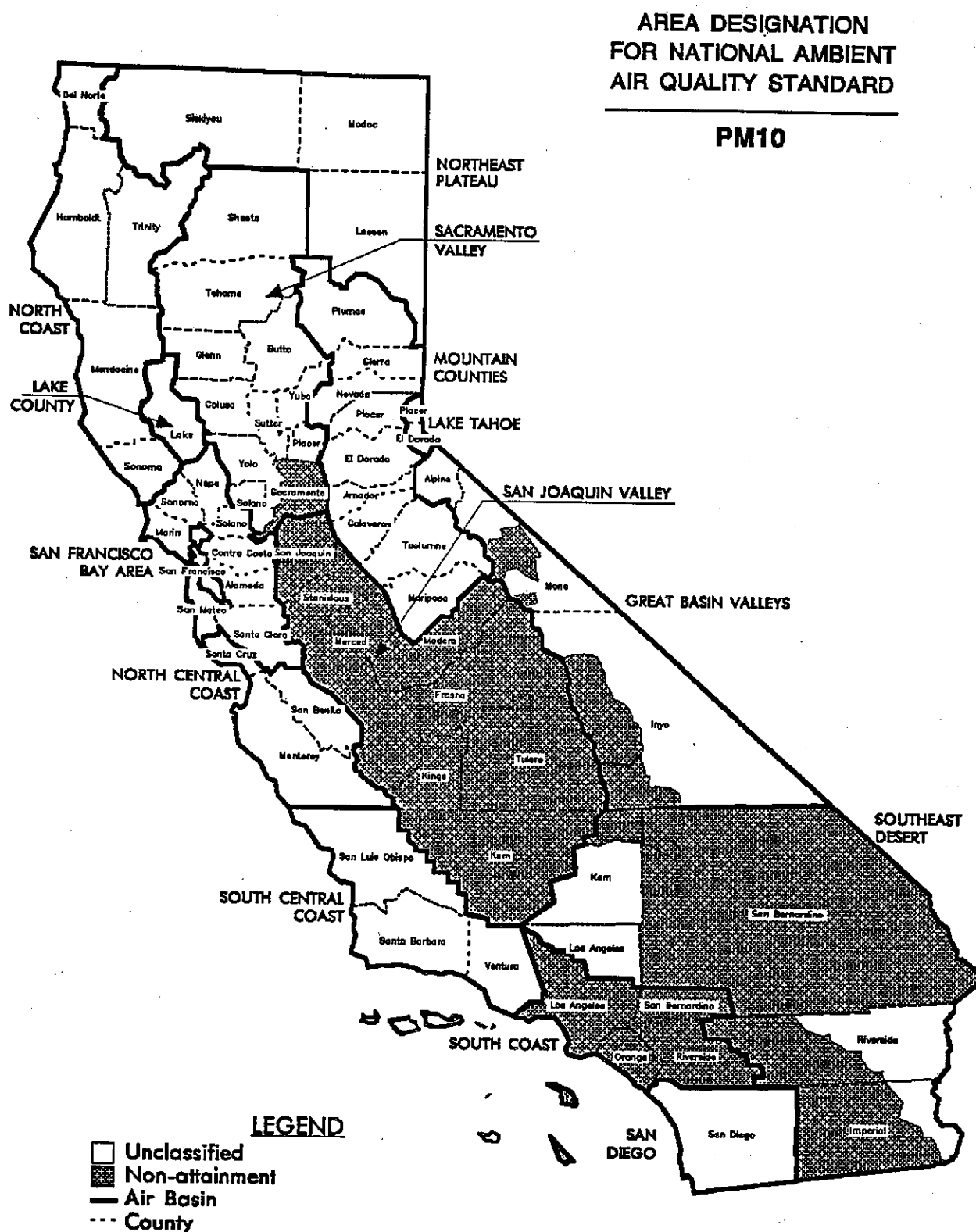


**TABLE 14**  
**Area Designations for Suspended Particulate Matter (PM10)**  
**National Ambient Air Quality Standard**

|                                    | N | U |                                       | N | U |
|------------------------------------|---|---|---------------------------------------|---|---|
| NORTH COAST AIR BASIN              |   | X | GREAT BASIN VALLEYS AIR BASIN CONT.   |   |   |
| SAN FRANCISCO BAY AREA AIR BASIN   |   | X | Mono County                           |   |   |
| NORTH CENTRAL COAST AIR BASIN      |   | X | -Mammoth Lakes Planning Area (3)      | X |   |
| SOUTH CENTRAL COAST AIR BASIN      |   | X | -Mono Lake Basin (3)                  | X |   |
| SOUTH COAST AIR BASIN              | X |   | -Remainder of County                  |   | X |
| SAN DIEGO AIR BASIN                |   | X | SOUTHEAST DESERT AIR BASIN (SEDAB)    |   |   |
| NORTHEAST PLATEAU AIR BASIN        |   | X | Imperial County                       |   |   |
| SACRAMENTO VALLEY AIR BASIN (SVAB) |   |   | -Imperial Valley Planning Area (4)    | X |   |
| Butte County                       |   | X | -Remainder of County                  |   | X |
| Colusa County                      |   | X | Kern County (SEDAB portion)           |   |   |
| Glenn County                       |   | X | -Searles Valley Planning Area (2)     | X |   |
| Sacramento County                  | X |   | -Remainder of County                  |   | X |
| Shasta County                      |   | X | Los Angeles County (SEDAB portion)    |   | X |
| Solano County (SVAB portion)       |   | X | Riverside County (SEDAB portion)      |   |   |
| Sutter County                      |   | X | -Coachella Valley Planning Area (4)   | X |   |
| Tehama County                      |   | X | -Remainder of County                  |   | X |
| Yolo County                        |   | X | San Bernardino County (SEDAB portion) |   |   |
| Yuba County                        |   | X | -Searles Valley Planning Area (2)     | X |   |
| SAN JOAQUIN VALLEY AIR BASIN       | X |   | -Remainder of County (5)              | X |   |
| GREAT BASIN VALLEYS AIR BASIN      |   |   | MOUNTAIN COUNTIES AIR BASIN           |   | X |
| Alpine County                      |   | X | Placer County (SVAB/MCAB portion) (6) |   | X |
| Inyo County                        |   |   | LAKE COUNTY AIR BASIN                 |   | X |
| -Owens Valley Planning Area (1)    | X |   | LAKE TAHOE AIR BASIN                  |   | X |
| -Searles Valley Planning Area (2)  | X |   |                                       |   |   |
| -Remainder of County               |   | X |                                       |   |   |

(1) 52 Federal Register 29384 (August 7, 1987)

(2) 56 Federal Register 56732 (November 6, 1991)

(3) 58 Federal Register 62547 (November 29, 1993)

(4) State of California Hydrologic Unit Map - 1978

(5) 58 Federal Register 67342 (December 21, 1993)

(6) U.S. EPA designation puts the SVAB portion of Placer County in the MCAB.



**ATTACHMENT C**

**TEXT OF THE PROPOSED AMENDMENTS  
TO THE AREA DESIGNATIONS**



## ATTACHMENT C

### Text of the Proposed Amendments to California Code of Regulations, Title 17, Sections 60200 through 60209

(Proposed additions are underlined and  
proposed deletions are shown as ~~stricken~~)\*

#### 60200. Description of Non-County Areas.

(a) [Reserved]

(b) [Reserved]

(c) [Reserved]

(d) That portion of Lake County and portion of Sonoma County, referred to as the Geysers Geothermal Area, is described as follows:

Beginning at the northwest corner of T. 12 N, R. 9 W, Mount Diablo Base and Meridian; thence south along the range line common to R. 9 W and R. 10 W to the point of intersection with the Mendocino-Lake County border; thence east and south along the Mendocino-Lake County border to the point of intersection with the border of Sonoma County; thence west along the Mendocino-Sonoma County border to the point of intersection with the range line common to R. 10 W and R. 9 W; thence south along the range line common to R. 10 W and R. 9 W to the point of intersection with Big Sulfur Creek; thence southwest along Big Sulfur Creek to its confluence with Little Sulfur Creek; thence southeast, east, and northeast along Little Sulfur Creek to the point of intersection with the township line common to T. 10 N and T. 11 N; thence east along the township line common to T. 10 N and T. 11 N to the northeast corner of T. 10 N, R. 9 W; thence south along the range line common to R. 9 W and R. 8 W to the southwest corner of T. 10 N, R. 8 W; thence east along the township line common to T. 9 N and T. 10 N to the point of intersection with the Sonoma-Napa County border; thence northwest along the Sonoma-Napa County border to the point of intersection with the Lake-Napa County border; thence northeast along the Lake-Napa County border to the point of intersection with State Highway 29 (SH-29); thence north and west along SH-29 to the point of intersection with the township line common to T. 12 N and T. 13 N; thence west along the township line common to T. 12 N and T. 13 N to the northwest corner of T. 12 N, R. 9 W, the point of beginning.

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

\* In Attachment C, text in bold indicates amendments that were adopted by the Air Resources Board on November 18, 1993, but not yet filed with the Secretary of State.

60201. Table of Area Designations for Ozone

| Area                                                                          | Designation                       |
|-------------------------------------------------------------------------------|-----------------------------------|
| North Coast Air Basin                                                         |                                   |
| Del Norte, Humboldt, Mendocino, and Trinity Counties                          | Attainment                        |
| Sonoma County                                                                 | Unclassified                      |
| San Francisco Bay Area Air Basin                                              | Nonattainment                     |
| North Central Coast Air Basin                                                 | Nonattainment                     |
| South Central Coast Air Basin                                                 | Nonattainment                     |
| South Coast Air Basin                                                         | Nonattainment                     |
| San Diego Air Basin                                                           | Nonattainment                     |
| Northeast Plateau Air Basin                                                   | Attainment                        |
| Sacramento Valley Air Basin                                                   | Nonattainment                     |
| San Joaquin Valley Air Basin                                                  | Nonattainment                     |
| Great Basin Valleys Air Basin                                                 |                                   |
| Alpine County                                                                 | Unclassified                      |
| Inyo County                                                                   | Unclassified                      |
| Mono County                                                                   | <del>Nonattainment</del>          |
|                                                                               | <u>Nonattainment-Transitional</u> |
| Southeast Desert Air Basin                                                    | Nonattainment                     |
| Mountain Counties Air Basin                                                   |                                   |
| Amador, Calaveras, El Dorado, Nevada, Placer, Mariposa, and Tuolumne Counties | Nonattainment                     |
| Plumas and Sierra Counties                                                    | Unclassified                      |
| Lake County Air Basin                                                         | Attainment                        |
| Lake Tahoe Air Basin                                                          | Attainment                        |

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Sections 39608 and 40925.5(a), Health and Safety Code.

# 60202. Table of Area Designations for Carbon Monoxide

| Area                                 | Designation                |
|--------------------------------------|----------------------------|
| North Coast Air Basin                |                            |
| Del Norte County                     | Unclassified               |
| Humboldt County                      | Attainment                 |
| Mendocino County                     | Attainment                 |
| Sonoma County                        | Unclassified               |
| Trinity County                       | Unclassified               |
| San Francisco Bay Area Air Basin     |                            |
| Alameda County                       | Attainment                 |
| Contra Costa County                  | Attainment                 |
| Marin County                         | Attainment                 |
| Napa County                          | Attainment                 |
| San Francisco County                 | Attainment                 |
| San Mateo County                     | Attainment                 |
| Santa Clara County                   | Attainment                 |
| San Jose Urbanized Area <sup>1</sup> | Nonattainment/Transitional |
| Remainder of County                  | Attainment                 |
| Solano County                        | Attainment                 |
| Sonoma County                        | Attainment                 |
| North Central Coast Air Basin        |                            |
| Monterey County                      | Attainment                 |
| San Benito County                    | Unclassified               |
| Santa Cruz County                    | Unclassified               |
| South Central Coast Air Basin        |                            |
| San Luis Obispo County               | Attainment                 |
| Santa Barbara County                 | Attainment                 |
| Ventura County                       | Attainment                 |
| South Coast Air Basin                |                            |
| Los Angeles County                   | Nonattainment              |
| Orange County                        | Nonattainment              |
| Riverside County                     | Attainment                 |
| San Bernardino County                | Attainment                 |
| San Diego Air Basin                  | Attainment                 |
| Northeast Plateau Air Basin          |                            |
| Lassen County                        | Unclassified               |
| Modoc County                         | Unclassified               |
| Siskiyou County                      | Unclassified               |

60202. Table of Area Designations for Carbon Monoxide (continued)

| Area                                 | Designation   |
|--------------------------------------|---------------|
| Sacramento Valley Air Basin          |               |
| Butte County                         |               |
| Chico Urbanized Area <sup>21</sup>   | Nonattainment |
| Remainder of County                  | Unclassified  |
| Colusa County                        | Unclassified  |
| Glenn County                         | Unclassified  |
| Placer County                        | Unclassified  |
| Sacramento County                    |               |
| County Portion of Census Bureau      |               |
| Urbanized Area <sup>23</sup>         | Nonattainment |
| Remainder of County                  | Attainment    |
| Shasta County                        | Unclassified  |
| Solano County                        | Attainment    |
| Sutter County                        | Unclassified  |
| Tehama County                        | Unclassified  |
| Yolo County                          | Attainment    |
| Yuba County                          | Unclassified  |
| San Joaquin Valley Air Basin         |               |
| Fresno County                        |               |
| Fresno Urbanized Area <sup>32</sup>  | Nonattainment |
| Remainder of County                  | Attainment    |
| Kern County                          | Attainment    |
| Kings County                         | Unclassified  |
| Madera County                        | Unclassified  |
| Merced County                        | Unclassified  |
| San Joaquin County                   | Attainment    |
| Stockton Urbanized Area <sup>2</sup> | Nonattainment |
| Remainder of County                  | Unclassified  |
| Stanislaus County                    | Attainment    |
| Modesto Urbanized Area <sup>1</sup>  | Nonattainment |
| Remainder of County                  | Unclassified  |
| Tulare County                        | Attainment    |
| Great Basin Valleys Air Basin        |               |
| Alpine County                        | Unclassified  |
| Inyo County                          | Unclassified  |
| Mono County                          | Attainment    |
| Southeast Desert Air Basin           |               |
| Imperial County                      | Unclassified  |
| Kern County                          | Unclassified  |
| Los Angeles County                   | Attainment    |
| Riverside County                     | Attainment    |
| San Bernardino County                | Attainment    |

60202. Table of Area Designations for Carbon Monoxide (continued)

| Area                        | Designation   |
|-----------------------------|---------------|
| Mountain Counties Air Basin |               |
| Amador County               | Unclassified  |
| Calaveras County            | Unclassified  |
| El Dorado County            | Unclassified  |
| Mariposa County             | Unclassified  |
| Nevada County               | Unclassified  |
| Placer County               | Unclassified  |
| Plumas County               | Attainment    |
| Sierra County               | Unclassified  |
| Tuolumne County             | Unclassified  |
| Lake County Air Basin       |               |
| Lake County                 | Attainment    |
| Lake Tahoe Air Basin        |               |
| El Dorado County            | Nonattainment |
| Placer County               | Unclassified  |

11. 50 Fed. Reg. 12542 (March 29, 1985); U.S. Department of Commerce, Bureau of the Census, Number of Inhabitants Report for California, 1980 U.S. Census 1982, pages 6/58 (Modesto), 6/74 and 75 (Vallejo), and 6/78 (San José).

21. 49 Fed. Reg. 20652 (May 16, 1984); U.S. Department of Commerce, Bureau of the Census, Number of Inhabitants Report for California, 1980 U.S. Census 1982, page 6-56 (Chico) and 6/80 (Stockton).

32. 50 Fed. Reg. 47735 (November 20, 1985); 45 Fed. Reg. 53149 (August 11, 1980); City of Fresno Department of Planning and Inspection, 1974 General Plan Report of the FCMA, page 4.

43. 56 Fed. Reg. 56724 (November 6, 1991); U.S. Department of Commerce, Bureau of the Census, Number of Inhabitants Report for California, 1980 U.S. Census 1982, page 6-72.

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

**60203. Table of Area Designations for Nitrogen Dioxide**

| Area                             | Designation   |
|----------------------------------|---------------|
| North Coast Air Basin            | Attainment    |
| San Francisco Bay Area Air Basin | Attainment    |
| North Central Coast Air Basin    | Attainment    |
| South Central Coast Air Basin    | Attainment    |
| South Coast Air Basin            | Nonattainment |
| San Diego Air Basin              | Attainment    |
| Northeast Plateau Air Basin      | Attainment    |
| Sacramento Valley Air Basin      | Attainment    |
| San Joaquin Valley Air Basin     | Attainment    |
| Great Basin Valleys Air Basin    | Attainment    |
| Southeast Desert Air Basin       | Attainment    |
| Mountain Counties Air Basin      | Attainment    |
| Lake County Air Basin            | Attainment    |
| Lake Tahoe Air Basin             | Attainment    |

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60204. Table of Area Designations for Sulfur Dioxide

| Area                             | Designation |
|----------------------------------|-------------|
| North Coast Air Basin            | Attainment  |
| San Francisco Bay Area Air Basin |             |
| Alameda County                   | Attainment  |
| Contra Costa County              | Attainment  |
| Marin County                     | Attainment  |
| Napa County                      | Attainment  |
| San Francisco County             | Attainment  |
| San Mateo County                 | Attainment  |
| Santa Clara County               | Attainment  |
| Solano County                    | Attainment  |
| Sonoma County                    | Attainment  |
| North Central Coast Air Basin    |             |
| Monterey County                  | Attainment  |
| San Benito County                | Attainment  |
| Santa Cruz County                | Attainment  |
| South Central Coast Air Basin    |             |
| San Luis Obispo County           | Attainment  |
| Santa Barbara County             | Attainment  |
| Ventura County                   | Attainment  |
| South Coast Air Basin            |             |
| Los Angeles County               | Attainment  |
| Orange County                    | Attainment  |
| Riverside County                 | Attainment  |
| San Bernardino County            | Attainment  |
| San Diego Air Basin              |             |
| San Diego County                 | Attainment  |
| Northeast Plateau Air Basin      |             |
| Lassen County                    | Attainment  |
| Modoc County                     | Attainment  |
| Siskiyou County                  | Attainment  |
| Sacramento Valley Air Basin      |             |
| Butte County                     | Attainment  |
| Colusa County                    | Attainment  |
| Glenn County                     | Attainment  |
| Placer County                    | Attainment  |
| Sacramento County                | Attainment  |
| Shasta County                    | Attainment  |
| Solano County                    | Attainment  |
| Sutter County                    | Attainment  |
| Tehama County                    | Attainment  |
| Yolo County                      | Attainment  |
| Yuba County                      | Attainment  |

60204. Table of Area Designations for Sulfur Dioxide (continued)

| Area                          | Designation             |
|-------------------------------|-------------------------|
| San Joaquin Valley Air Basin  |                         |
| Fresno County                 | Attainment              |
| Kern County                   | Attainment              |
| Kings County                  | Attainment              |
| Madera County                 | Attainment              |
| Merced County                 | Attainment              |
| San Joaquin County            | Attainment              |
| Stanislaus County             | Attainment              |
| Tulare County                 | Attainment              |
| Great Basin Valleys Air Basin |                         |
| Alpine County                 | Attainment              |
| Inyo County                   | Attainment              |
| Mono County                   | Attainment              |
| Southeast Desert Air Basin    |                         |
| Imperial County               | Attainment              |
| Kern County                   | <del>Unclassified</del> |
| Los Angeles County            | <u>Attainment</u>       |
| Riverside County              | Attainment              |
| San Bernardino County         | Attainment              |
| Mountain Counties Air Basin   |                         |
| Amador County                 | Attainment              |
| Calaveras County              | Attainment              |
| El Dorado County              | Attainment              |
| Mariposa County               | Attainment              |
| Nevada County                 | Attainment              |
| Placer County                 | Attainment              |
| Plumas County                 | Attainment              |
| Sierra County                 | Attainment              |
| Tuolumne County               | Attainment              |
| Lake County Air Basin         |                         |
| Lake County                   | Attainment              |
| Lake Tahoe Air Basin          |                         |
| El Dorado County              | Attainment              |
| Placer County                 | Attainment              |

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60205. Table of Area Designations for Suspended Particulate Matter (PM10)

| Area                                                               | Designation   |
|--------------------------------------------------------------------|---------------|
| North Coast Air Basin                                              | Nonattainment |
| San Francisco Bay Area Air Basin                                   | Nonattainment |
| North Central Coast Air Basin                                      | Nonattainment |
| South Central Coast Air Basin                                      | Nonattainment |
| South Coast Air Basin                                              | Nonattainment |
| San Diego Air Basin                                                | Nonattainment |
| Northeast Plateau Air Basin                                        |               |
| Modoc and Siskiyou Counties                                        | Nonattainment |
| Lassen County                                                      | Unclassified  |
| Sacramento Valley Air Basin                                        | Nonattainment |
| San Joaquin Valley Air Basin                                       | Nonattainment |
| Great Basin Valleys Air Basin                                      | Nonattainment |
| Southeast Desert Air Basin                                         | Nonattainment |
| Mountain Counties Air Basin                                        |               |
| Amador, Calaveras, Remainder of<br>Mariposa, and Tuolumne Counties | Unclassified  |
| Mariposa County Portion of<br>Yosemite National Park               | Nonattainment |
| El Dorado, Nevada, Placer,<br>Plumas, and Sierra Counties          | Nonattainment |
| Lake County Air Basin                                              | Attainment    |
| Lake Tahoe Air Basin                                               | Nonattainment |

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60206. Table of Area Designations for Sulfates

| Area                                                                          | Designation                            |
|-------------------------------------------------------------------------------|----------------------------------------|
| North Coast Air Basin                                                         | Attainment                             |
| San Francisco Bay Area Air Basin                                              | Attainment                             |
| North Central Coast Air Basin                                                 | Attainment                             |
| South Central Coast Air Basin                                                 | Attainment                             |
| South Coast Air Basin                                                         | <del>Nonattainment</del><br>Attainment |
| San Diego Air Basin                                                           | Attainment                             |
| Northeast Plateau Air Basin                                                   | Attainment                             |
| Sacramento Valley Air Basin                                                   | Attainment                             |
| San Joaquin Valley Air Basin                                                  | Unclassified                           |
| Great Basin Valleys Air Basin                                                 | Attainment                             |
| Southeast Desert Air Basin                                                    |                                        |
| San Bernardino County Portion<br>of Searles Valley Planning Area <sup>1</sup> | Nonattainment                          |
| Remainder of Air Basin                                                        | Attainment                             |
| Mountain Counties Air Basin                                                   | Attainment                             |
| Lake County Air Basin                                                         | Attainment                             |
| Lake Tahoe Air Basin                                                          | Attainment                             |

1. 52 Fed. Reg. 29384 (August 7, 1987); U.S. Geological Survey 1974, *Hydrologic Unit Map-State of California*, Hydrological Unit #18090205.

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60207. Table of Area Designations for Lead (Particulate)

| Area                             | Designation |
|----------------------------------|-------------|
| North Coast Air Basin            |             |
| Del Norte County                 | Attainment  |
| Humboldt County                  | Attainment  |
| Mendocino County                 | Attainment  |
| Sonoma County                    | Attainment  |
| Trinity County                   | Attainment  |
| San Francisco Bay Area Air Basin |             |
| Alameda County                   | Attainment  |
| Contra Costa County              | Attainment  |
| Marin County                     | Attainment  |
| Napa County                      | Attainment  |
| San Francisco County             | Attainment  |
| San Mateo County                 | Attainment  |
| Santa Clara County               | Attainment  |
| Solano County                    | Attainment  |
| Sonoma County                    | Attainment  |
| North Central Coast Air Basin    |             |
| Monterey County                  | Attainment  |
| San Benito County                | Attainment  |
| Santa Cruz County                | Attainment  |
| South Central Coast Air Basin    |             |
| San Luis Obispo County           | Attainment  |
| Santa Barbara County             | Attainment  |
| Ventura County                   | Attainment  |
| South Coast Air Basin            |             |
| Los Angeles County               | Attainment  |
| Orange County                    | Attainment  |
| Riverside County                 | Attainment  |
| San Bernardino County            | Attainment  |
| San Diego Air Basin              |             |
| San Diego County                 | Attainment  |
| Northeast Plateau Air Basin      |             |
| Lassen County                    | Attainment  |
| Modoc County                     | Attainment  |
| Siskiyou County                  | Attainment  |
| Sacramento Valley Air Basin      |             |
| Butte County                     | Attainment  |
| Colusa County                    | Attainment  |
| Glenn County                     | Attainment  |
| Placer County                    | Attainment  |
| Sacramento County                | Attainment  |
| Shasta County                    | Attainment  |
| Solano County                    | Attainment  |
| Sutter County                    | Attainment  |
| Tehama County                    | Attainment  |
| Yolo County                      | Attainment  |
| Yuba County                      | Attainment  |

60207. Table of Area Designations for Lead (Particulate) (continued)

| Area                          | Designation |
|-------------------------------|-------------|
| San Joaquin Valley Air Basin  |             |
| Fresno County                 | Attainment  |
| Kern County                   | Attainment  |
| Kings County                  | Attainment  |
| Madera County                 | Attainment  |
| Merced County                 | Attainment  |
| San Joaquin County            | Attainment  |
| Stanislaus County             | Attainment  |
| Tulare County                 | Attainment  |
| Great Basin Valleys Air Basin |             |
| Alpine County                 | Attainment  |
| Inyo County                   | Attainment  |
| Mono County                   | Attainment  |
| Southeast Desert Air Basin    |             |
| Imperial County               | Attainment  |
| Kern County                   | Attainment  |
| Los Angeles County            | Attainment  |
| Riverside County              | Attainment  |
| San Bernardino County         | Attainment  |
| Mountain Counties Air Basin   |             |
| Amador County                 | Attainment  |
| Calaveras County              | Attainment  |
| El Dorado County              | Attainment  |
| Mariposa County               | Attainment  |
| Nevada County                 | Attainment  |
| Placer County                 | Attainment  |
| Plumas County                 | Attainment  |
| Sierra County                 | Attainment  |
| Tuolumne County               | Attainment  |
| Lake County Air Basin         |             |
| Lake County                   | Attainment  |
| Lake Tahoe Air Basin          |             |
| El Dorado County              | Attainment  |
| Placer County                 | Attainment  |

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

60208. Table of Area Designations for Hydrogen Sulfide

| Area                                | Designation  |
|-------------------------------------|--------------|
| North Coast Air Basin               |              |
| Del Norte County                    | Unclassified |
| Humboldt County                     | Attainment   |
| Mendocino County                    | Unclassified |
| Sonoma County                       |              |
| Geyser Geothermal Area <sup>2</sup> | Attainment   |
| Remainder of County                 | Unclassified |
| Trinity County                      | Unclassified |
| San Francisco Bay Area Air Basin    |              |
| Alameda County                      | Unclassified |
| Contra Costa County                 | Unclassified |
| Marin County                        | Unclassified |
| Napa County                         | Unclassified |
| San Francisco County                | Unclassified |
| San Mateo County                    | Unclassified |
| Santa Clara County                  | Unclassified |
| Solano County                       | Unclassified |
| Sonoma County                       | Unclassified |
| North Central Coast Air Basin       |              |
| Monterey County                     | Unclassified |
| San Benito County                   | Unclassified |
| Santa Cruz County                   | Unclassified |
| South Central Coast Air Basin       |              |
| San Luis Obispo County              | Attainment   |
| Santa Barbara County                | Attainment   |
| Ventura County                      | Unclassified |
| South Coast Air Basin               |              |
| Los Angeles County                  | Unclassified |
| Orange County                       | Unclassified |
| Riverside County                    | Unclassified |
| San Bernardino County               | Unclassified |
| San Diego Air Basin                 |              |
| San Diego County                    | Unclassified |
| Northeast Plateau Air Basin         |              |
| Lassen County                       | Unclassified |
| Modoc County                        | Unclassified |
| Siskiyou County                     | Unclassified |

60208. Table of Area Designations for Hydrogen Sulfide (continued)

| Area                                      | Designation   |
|-------------------------------------------|---------------|
| Sacramento Valley Air Basin               |               |
| Butte County                              | Unclassified  |
| Colusa County                             | Unclassified  |
| Glenn County                              | Unclassified  |
| Placer County                             | Unclassified  |
| Sacramento County                         | Unclassified  |
| Shasta County                             | Unclassified  |
| Solano County                             | Unclassified  |
| Sutter County                             | Unclassified  |
| Tehama County                             | Unclassified  |
| Yolo County                               | Unclassified  |
| Yuba County                               | Unclassified  |
| San Joaquin Valley Air Basin              |               |
| Fresno County                             | Unclassified  |
| Kern County                               | Unclassified  |
| Kings County                              | Unclassified  |
| Madera County                             | Unclassified  |
| Merced County                             | Unclassified  |
| San Joaquin County                        | Unclassified  |
| Stanislaus County                         | Unclassified  |
| Tulare County                             | Unclassified  |
| Great Basin Valleys Air Basin             |               |
| Alpine County                             | Unclassified  |
| Inyo County                               | Attainment    |
| Mono County                               | Attainment    |
| Southeast Desert Air Basin                |               |
| Imperial County                           | Unclassified  |
| Kern County                               | Unclassified  |
| Los Angeles County                        | Unclassified  |
| Riverside County                          | Unclassified  |
| San Bernardino County                     | Unclassified  |
| County Portion of                         |               |
| Searles Valley Planning Area <sup>1</sup> | Nonattainment |
| Remainder of County                       | Unclassified  |
| Mountain Counties Air Basin               |               |
| Amador County                             |               |
| City of Sutter Creek                      | Nonattainment |
| Remainder of County                       | Unclassified  |
| Calaveras County                          | Unclassified  |
| El Dorado County                          | Unclassified  |
| Mariposa County                           | Unclassified  |
| Nevada County                             | Unclassified  |
| Placer County                             | Unclassified  |
| Plumas County                             | Unclassified  |
| Sierra County                             | Unclassified  |
| Tuolumne County                           | Unclassified  |

60208. Table of Area Designations for Hydrogen Sulfide (continued)

| Area                                     | Designation  |
|------------------------------------------|--------------|
| Lake County Air Basin<br>Lake County     | Attainment   |
| Lake Tahoe Air Basin<br>El Dorado County | Unclassified |
| Placer County                            | Unclassified |

1. 52 Fed. Reg. 29384 (August 7, 1987); U.S. Geological Survey 1974, *Hydrologic Unit Map-State of California*, Hydrological Unit #18090205.
2. Section 60200(d).

Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

**60209. Table of Area Designations for Visibility Reducing Particles**

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| Area                             | Designation  |
|----------------------------------|--------------|
| North Coast Air Basin            | Unclassified |
| San Francisco Bay Area Air Basin | Unclassified |
| North Central Coast Air Basin    | Unclassified |
| South Central Coast Air Basin    | Unclassified |
| South Coast Air Basin            | Unclassified |
| San Diego Air Basin              | Unclassified |
| Northeast Plateau Air Basin      | Unclassified |
| Sacramento Valley Air Basin      | Unclassified |
| San Joaquin Valley Air Basin     | Unclassified |
| Great Basin Valleys Air Basin    | Unclassified |
| Southeast Desert Air Basin       | Unclassified |
| Mountain Counties Air Basin      | Unclassified |
| Lake County Air Basin            | Attainment   |
| Lake Tahoe Air Basin             | Unclassified |

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Note: Authority cited: Sections 39600, 39601 and 39608, Health and Safety Code.

Reference: Section 39608, Health and Safety Code.

**ATTACHMENT D**

**TEXT OF THE DESIGNATION CRITERIA**



## **ATTACHMENT D**

### **Text of the California Code of Regulations, Title 17, Sections 70300 through 70306, and Appendices 1 through 4, Thereof**

#### **70300. General Statement of Purpose**

The objective of these criteria is to guide the state board in making designations of air basins as attainment, nonattainment, or unclassified for each of the pollutants for which state ambient air quality standards have been established in Section 70200.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

#### **70301. Air Quality Data Used for Designations**

(a) Except as otherwise provided in this article, designations shall be based on data for record. "Data for record" are those data collected by or under the auspices of the state board or the districts for the purpose of measuring ambient air quality, and which the executive officer has determined comply with the siting and quality assurance procedures established in Part 58, Title 40, Code of Federal Regulations, as they existed on July 1, 1987, or other equivalent procedures. The executive officer shall also determine within 90 days of submittal of complete supporting documentation whether any other data which are provided by a district or by any other person comply with the siting and quality assurance procedures and shall be data for record. If the executive officer finds there is good cause that 90 days is insufficient time to make a determination, he/she may after notification of the person requesting the data review extend the deadline for completion of the data review.

(b) Except as otherwise provided in this article, designations and reviews of designations shall be based on data for record for the three calendar years prior to the year in which the designation is made or the annual review of the designation is conducted.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

#### **70302. Geographic Extent of Designations**

(a) An air basin shall be the area designated for ozone, nitrogen dioxide, suspended particulate matter (PM10), sulfates, and visibility reducing particles. Provided, however, if the state board finds (based on air quality data, meteorology, topography, or the distribution of population and emissions) that there are areas within an air basin with distinctly different air quality deriving from sources and conditions not affecting the entire air basin, the state board may designate an area smaller than an air

basin using political boundary lines to the extent practicable. In designating an area smaller than an air basin as nonattainment, the state board shall include within the area those sources whose emissions contribute to a violation of a standard for that pollutant. Contiguous areas which would have the same designation within an air basin shall be one designated area.

(b) A county or the portion of a county which is located within an air basin shall be the area designated for carbon monoxide, sulfur dioxide, lead (particulate), and hydrogen sulfide. Provided, however, if the state board finds (based on air quality data, meteorology, topography, or the distribution of population and emissions) that there are areas within the county with distinctly different air quality, it may designate a smaller area. In designating an area smaller than a county as nonattainment, the state board shall include within the area those sources whose emissions contribute to a violation of a standard for that pollutant.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 38608, Health and Safety Code.

#### **70303. Criteria for Designating an Area as Nonattainment**

(a) The state board shall designate an area as nonattainment for a pollutant if:

(1) Data for record meet the representativeness criteria set forth in "Criteria for Determining Data Representativeness" contained in Appendix 1 to this article and show at least one violation of a state standard for that pollutant in the area; or

(2) Limited or no air quality data were collected in the area, but the state board finds, based on meteorology, topography, and air quality data for an adjacent nonattainment area, that there has been at least one violation of a state standard for that pollutant in the area being designated.

(b) An area shall not be designated as nonattainment if the only recorded violation(s) of that standard were based solely on data for record determined to be affected by a highly irregular or infrequent event. Data affected by a highly irregular or infrequent event will be identified as such by the executive officer in accordance with the "Air Resources Board Procedure for Reviewing Air Quality Data Possibly Affected by a Highly Irregular or Infrequent Event," set forth in Appendix 2 to this article.

(c) The state board shall, if requested by the district no later than July 15, 1990 or no later than May 1 of each year thereafter pursuant to section 70306, identify that portion of a designated area within the district as nonattainment-transitional for a pollutant other than ozone with a standard averaging time less than or equal to 24 hours and continuous sampling (continuous sampling means that samples are routinely collected every day) if it finds that:

(1) Data for record for the previous calendar year are consistent with the criteria established in section 70304(a)(2) and show two or fewer days at all sites in the area with violations of a state standard for that pollutant (not including violations found to be affected by a highly irregular or infrequent event under the procedure set forth in Appendix 2);

(2) Evaluation of multi-year air quality, meteorological and emission data indicates that ambient air quality either has stabilized or is improving and the area is expected to reach attainment within three years; and

(3) The geographic extent of the area is consistent with the criteria established in section 70302.

(d) An area designated as nonattainment-transitional for a pollutant is close to attaining the standard(s) for that pollutant. The nonattainment-transitional designation provides an opportunity for a district to review and potentially to modify its attainment plan. Any modification to an attainment plan must be consistent with state and federal regulations and statutes.

NOTE: Authority Cited: Sections 39600, 39601, 39607, 39608, and 40925.5, Health and Safety Code. Reference: Sections 39607, 39608, and 40925.5, Health and Safety Code.

#### **70303.5. Requirements for Ozone Nonattainment-Transitional**

In evaluating whether a district meets the requirements of HSC 40925.5, the Board shall use the following guidelines:

(1) Data for record for the previous calendar year must be consistent with the criteria established in section 70304(a)(2) to ensure that no more than three exceedances have occurred;

(2) All data collected during the previous calendar year will be considered in the evaluation, including data possibly affected by a highly irregular or infrequent event under the procedure set forth in Appendix 2;

(3) Each day with concentration(s) that exceed the state ozone standard will be counted as one exceedance day; and

(4) No monitoring location may have more than three exceedance days during the previous calendar year.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 40925.5, Health and Safety Code. Reference: Sections 39607 and 40925.5, Health and Safety Code.

#### 70304. Criteria for Designating an Area as Attainment

(a) The state board shall designate an area as attainment for a pollutant if:

(1) Data for record show that no state standard for that pollutant was violated at any site in the area; and

(2) Data for record meet representativeness and completeness criteria for a location at which the pollutant concentrations are expected to be high based on the spatial distribution of emission sources in the area and the relationship of emissions to air quality. Data representativeness criteria are set forth in "Criteria for Determining Data Representativeness" contained in Appendix 1 to this article. Data completeness criteria are set forth in "Criteria for Determining Data Completeness" contained in Appendix 3 to this article.

(b) Where there are limited or no air quality data for an area, the state board shall designate the area as attainment for a pollutant if it finds that no state standard for that pollutant has been violated in that area based on:

(1) Air quality data collected in the area during the most recent period since 1980 which meet the conditions in (a) above;

(2) Emissions of that pollutant or its precursors in the area have not increased since that period to a level at which the standard might be exceeded; and

(3) Air quality data collected in the area since the time period in (1) above do not show a violation of the state standard.

(c) Where an area has limited or no air quality data for nitrogen dioxide, sulfur dioxide, sulfates, and lead (particulate), the state board shall designate that area attainment for a pollutant if it finds that no state standard for that pollutant has been violated in that area based on the state board's "Screening Procedure for Determining Attainment Designations for Areas With Incomplete Air Quality Data" set forth in Appendix 4 to this article.

(d) A nonattainment area shall not be redesignated as attainment for a pollutant if:

(1) Data for record for the monitoring site showing the greatest violation of a state standard for that pollutant no longer are available; and

(2) No other site has been identified as equivalent by the executive officer.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

#### **70305. Criteria for Designating an Area as Unclassified**

The state board shall designate an area as unclassified for a pollutant if it finds that, except as otherwise provided in this article, the data do not support a designation of attainment or nonattainment.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

#### **70306. Annual Review of Designations**

(a) The executive officer shall conduct annual reviews of all designations and shall propose revisions to the designations as necessary to the state board. The executive officer shall complete the annual reviews by November 15.

(b) Any request for a change in a designation and any submittal of information for purposes of the executive officer's consideration in the annual review of a designation shall be provided in writing to the executive officer no later than May 1 of each year commencing with May 1, 1990.

NOTE: Authority Cited: Sections 39600, 39601, 39607, and 39608, Health and Safety Code. Reference: Sections 39607 and 39608, Health and Safety Code.

## APPENDIX 1

### CRITERIA FOR DETERMINING DATA REPRESENTATIVENESS

This Appendix describes the criteria to be used in determining data representativeness for the purpose of designating areas as described in Article 3, Subchapter 1.5, Chapter 1, Part III, Title 17 (commencing with Section 70300), California Code of Regulations. Representativeness as used here, is only related to whether or not the amount of data reported is deemed sufficiently complete to characterize reliably air quality during the respective time period. No other kind of representativeness is implied. The criteria for representativeness are summarized in the accompanying table and discussed further below.

Air quality statistics are usually computed from short term observed values. For example, an annual arithmetic mean is computed from all available hourly samples. If all the short term values for the statistical time period are available, the calculated statistic is representative. However, because all the short term values for a given period often are not available, a minimum number of observations are needed to provide reasonable assurance that the calculated value is a reliable estimate. In general, statistics are considered representative if 75 percent of the possible short term values are included and are distributed throughout the entire statistical time period.

To ensure that seasonal variations are accounted for, representative annual statistics are required to have four representative calendar quarters of data. For example, if an annual mean is based on 24-hour samples, such as that computed for suspended particulate matter (PM<sub>10</sub>) samples, three representative months are required for each calendar quarter. A 24-hour particulate sample is collected once every six days or a total of five samples per 31-day month. Therefore, three or fewer samples (less than or equal to 60 percent data recovery) do not meet the criterion for a reliable estimate of the monthly mean concentration. The lack of representativeness of the monthly mean concentrations precludes a reliable estimate of a representative calendar quarter, which in turn precludes the representativeness of an annual statistic. Each level of criteria--hour, day, month, quarter, and year--must be met in order to make a representative annual statistic.

For observations made at less than 24-hour intervals, for example, hourly samples, representativeness depends on whether all the individual values are to be used or only a single daily value is to be used. In general, for representative statistics computed from all of the individual values, such as the mean of all hours, 75 percent of the values in the respective period are required. For representative statistics computed from daily values, such as the monthly mean of daily maximum hours, data from 75 percent of the days in the month are required and the data within those days must meet the relevant representativeness criteria.

# **CRITERIA FOR REPRESENTATIVENESS OF AIR QUALITY MEASUREMENTS AND STATISTICS**

| <u>Representative<br/>Calendar<br/>Statistic</u> | <u>Sampling<br/>Time<br/>Period</u> | <u>Basis of Statistic<br/>or Requirement</u> | <u>Number of<br/>Representative Periods<br/>Required</u>                                                                       |
|--------------------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Year                                             | Any                                 |                                              | 4 representative calendar quarters                                                                                             |
| Quarter                                          | 24-hour                             | Based on a daily sample                      | 3 representative months                                                                                                        |
|                                                  | < 24-hours                          | Based on a daily statistic; or               | 69 or more representative calendar days                                                                                        |
|                                                  | < 24-hours                          | Based on hourly samples                      | 1,643 or more hours                                                                                                            |
| Month                                            | 24-hour                             | Based on daily sample                        | 4 or more 24-hour samples                                                                                                      |
|                                                  | < 24-hours                          | Based on a daily statistic; or               | 23 or more representative calendar days                                                                                        |
|                                                  | < 24-hours                          | Based on all hourly samples; or              | 548 or more hours                                                                                                              |
|                                                  | < 24-hours                          | Based on all 2-hour samples; or              | 274 or more 2-hour samples                                                                                                     |
|                                                  | < 24-hours                          | Based on all 3-hour samples                  | 183 or more 3-hour samples                                                                                                     |
| Day                                              | 1-hour                              |                                              | 6 or more hours in each 1/3 day (hours 0 thru 7, 8 thru 15, 16 thru 23), and missing no more than 2 consecutive hourly samples |
|                                                  | 2-hour                              | Based on all 2-hour samples                  | 9 or more samples                                                                                                              |
|                                                  | 3-hour                              | Based on all 3-hour samples                  | 6 or more samples                                                                                                              |
|                                                  | 24-hour                             | Based on daily sample                        | 22 but not more than 26 hours of sampling                                                                                      |

## N      Number of Samples Needed

|         |    |                                |
|---------|----|--------------------------------|
| Mean of | 24 | 18 or more hourly samples      |
| N Hour  | 8  | 6 or more hourly samples       |
| Period  | 6  | 5 or more hourly samples       |
|         | 4  | 3 hourly samples               |
|         | 3  | 3 hourly samples               |
|         | 2  | 2 hourly samples               |
|         | 1  | 30 minutes or more of sampling |

## APPENDIX 2

### AIR RESOURCES BOARD PROCEDURE FOR REVIEWING AIR QUALITY DATA POSSIBLY AFFECTED BY A HIGHLY IRREGULAR OR INFREQUENT EVENT

This Appendix describes the procedures that the Air Resources Board (state board) will use for reviewing air quality data possibly affected by a highly irregular or infrequent event with regard to the state ambient air quality standards. All decisions regarding the identification of data as being affected by a highly irregular or infrequent event will be made by the executive officer.

The state board will review air quality data for possible identification as affected by a highly irregular or infrequent event if the data are the only violations of an air quality standard in the area or if such identification would otherwise affect the designation of the area.

Two types of highly irregular or infrequent events may be identified:

1. Exceptional Event.
2. Extreme Concentration Event.

An exceptional event is an event beyond reasonable regulatory control which causes an exceedance of a state standard. An exceptional event must be linked to a specific cause such as an act of nature or unusual human activity. As guidance to the states for determining exceptional events, the federal Environmental Protection Agency (EPA) has published Guideline on the Identification and Use of Air Quality Data Affected by Exceptional Events, (EPA-450/4-86-007), July 1986 (the EPA Guideline). The EPA Guideline provides an overall criterion for determining whether an event is exceptional with regard to the national standards. The state board will use the EPA Guideline on a general basis for reviewing ambient data, but will not be bound by the specific definitions in the EPA Guideline for the various types of exceptional events because those definitions are made on a national basis. In addition, since what may be exceptional in one part of the state may be common in another, each possible event will be evaluated on a case-by-case basis.

An extreme concentration event is an event beyond reasonable regulatory control which causes an exceedance of a state standard but which does not qualify as an exceptional event. The causes of an extreme concentration event include but are not limited to unusual meteorology.

The steps for identifying an exceptional event are:

1. A district (or the state board) identifies questionable data.
2. If a known exceptional event has occurred, the district gathers relevant data to document the occurrence.

3. If an exceptional event is only suspected, the district investigates available data for the possible event.
4. The district submits to the executive officer a request for identifying the data as affected by an exceptional event and also provides supporting documentation.
5. If the executive officer concurs with the district, he/she will identify the data as affected by an exceptional event.
6. If the district's request for identifying data as affected by an exceptional event cannot be supported, the district will be notified of the reasons. The executive officer will consider any additional data to support the request, but in the absence of any new evidence, will disapprove the request.

The steps for identifying an extreme concentration event are:

1. A district (or the state board) identifies questionable data.
2. If the event is not an exceptional event, with an identifiable cause, the state board will evaluate the data as affected by an extreme concentration event.
3. In evaluating a possible extreme concentration event, the state board shall use the data for the site at which the event is suspected to determine a limit for concentrations expected to recur no more frequently than once in one year. The limit shall be determined using the "exponential tail method" which is incorporated by reference herein and described in Part I Section B.1. of the "Supplement to the Technical Support Document for Proposed Amendments to the Criteria for Designating Areas of California as Nonattainment, Attainment, or Unclassified for State Ambient Air Quality Standards" (May 1992). Using conventional rounding procedures, the limit shall be rounded to be consistent with the level of precision in which the standard is expressed. If the possible extreme concentration exceeds the estimated concentration, the executive office will consult with the district in identifying the data as affected by an extreme concentration event.
4. When an extreme concentration event is identified, the state board shall review other information, including but not limited to meteorological data, to determine whether air quality data for other sites in the area were affected by the extreme concentration event.

## APPENDIX 3

### CRITERIA FOR DETERMINING DATA COMPLETENESS

This Appendix describes the criteria to be used in determining data completeness for the purpose of designating areas as attainment or nonattainment-transitional as described in Article 3, Subchapter 1.5, Chapter 1, Part III, Title 17 (commencing with Section 70300), California Code of Regulations. The purpose of these data completeness criteria is to specify the minimum data deemed necessary to assure that sampling occurred at times when a violation is most likely to occur.

#### Complete Data

Data for a site will be deemed complete if there are representative data (as determined in accordance with the Representativeness Criteria in Appendix 1) during the required hours (see below) of the day during the required months (see below) for the required years (see below).

#### Required Hours

The hours of potentially high concentration must be included. Unless a detailed evaluation determines different hours to be appropriate for a specific site, these hours are:

| <u>Pollutant</u>              | <u>Hours (PST)</u>     |
|-------------------------------|------------------------|
| Ozone                         | 9 am - 5 pm            |
| Carbon Monoxide               | 3 pm - 9 am (next day) |
| Nitrogen Dioxide              | 8 am - 8 pm            |
| Visibility Reducing Particles | 10 am - 6 pm           |
| Other Pollutants              | Throughout day         |

#### Required Months

The months of potentially high concentrations must be included. Unless a detailed evaluation determines different months to be appropriate for a specific site, these months are:

| <u>Pollutant</u>   | <u>Months</u>                |
|--------------------|------------------------------|
| Ozone              | July - September             |
| Carbon Monoxide    | January, November - December |
| Nitrogen Dioxide   | October - December           |
| Sulfur Dioxide     | September - December         |
| Sulfates           | January, June - December     |
| Lead (Particulate) | January, November - December |
| Other Pollutants   | January - December           |

Required Years \*

The number of years to be included is:

- a) Three; or
- b) Two, if during these years the maximum pollutant concentration (not including data found to be affected by a highly irregular or infrequent event under the procedure set forth in Appendix 2) is less than three-fourths the applicable state ambient air quality standard; or
- c) One, if during this year the maximum pollutant concentration (not including data found to be affected by a highly irregular or infrequent event under the procedure set forth in Appendix 2) is less than one-half the applicable state ambient air quality standard.

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\* In Attachment D, text in bold indicates amendments that were adopted by the Air Resources Board on November 18, 1993, but not yet filed with the Secretary of State.

#### APPENDIX 4

##### SCREENING PROCEDURE FOR DETERMINING ATTAINMENT DESIGNATIONS FOR AREAS WITH INCOMPLETE AIR QUALITY DATA

This Appendix describes the screening procedure that will serve as the basis for making a pollutant-specific finding under Section 70304(c) that the state ambient air quality standard is being attained for areas with no or an incomplete air quality data record. The procedure is applicable only for nitrogen dioxide, sulfur dioxide, sulfates, and lead (particulate). For those areas with some air quality data for the prior three years, the screening procedure will be applied for a pollutant only if the maximum concentrations of that pollutant in the area did not exceed 75 percent of the state standard(s).

| <u>Pollutant</u> | <u>Screening Parameters</u>                                     | <u>Screening Values</u> |
|------------------|-----------------------------------------------------------------|-------------------------|
| Nitrogen Dioxide | a) Basin Population                                             | 1,000,000 people        |
|                  | b) Total Annual NOx Emissions in Air Basin                      | 40,000 tons/yr          |
|                  | c) Total Annual Point Source NOx, Emissions in County           | 2,100 tons/yr           |
| Sulfur Dioxide   | a) Total Annual Point Source SOx Emissions in County            | 1,700 tons/yr           |
|                  | b) Maximum Annual SOx Emissions from Single Facility in County  | 900 tons/yr             |
| Sulfates         | a) Total Annual SOx Emissions in Air Basin                      | 19,000 tons/yr          |
|                  | b) Total Annual Point Source SOx Emissions in County            | 1,700 tons/yr           |
|                  | c) Maximum Annual SOx Emissions from Single Facility in County  | 900 tons/yr             |
| Lead             | a) County Population                                            | 600,000 people          |
|                  | b) Maximum Annual Lead Emissions from Single Facility in County | 0.5 tons/yr             |

For an area to which these values are applied, the local values of the applicable screening parameters will be compared to the respective screening values. The area will be presumed to be attainment if none of the applicable screening parameters for a pollutant exceed the associated screening values.

**ATTACHMENT E**

**EXPECTED PEAK DAY CONCENTRATIONS**

**AND**

**DESIGNATION VALUES**



## ATTACHMENT E

### EXPECTED PEAK DAY CONCENTRATIONS AND DESIGNATION VALUES

This Attachment contains the Expected Peak Day Concentrations for various pollutants. The Expected Peak Day Concentration (EPDC) represents the concentration that is statistically estimated to recur once per year. In the area designation process, measured concentrations that are higher than the calculated EPDC, after the EPDC is rounded to the precision of the relevant State standard, are identified as extreme concentrations and are not considered violations of the standard. The highest measured concentration remaining at a given site after all extreme concentrations are excluded is called the Designation Value (DV). If the highest Designation Value within an area is not a violation of the state standard, and all other criteria are met, then the area can be considered in attainment for that pollutant.

The EPDCs and DVs listed in this Attachment are based on air quality data collected during 1991 through 1993. This is the most recent three-year period for which air quality data are available and is the same three-year period used in reviewing the area designations described in the accompanying Staff Report. The EPDCs and DVs are listed for each site in the state with appropriate data. Concentrations are listed for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide (hourly average), sulfur dioxide (24-hour average), suspended particulate matter or PM10, sulfates, and hydrogen sulfide in Tables E-1 through E-8, respectively. No concentrations are listed for lead because all areas of the state are currently designated as attainment for this pollutant. In addition, no concentrations are listed for visibility reducing particles because suitable data are not available for making the calculations.

The EPDCs and DVs listed here are based on all available data. However, in some cases, the data may not be complete or representative. Therefore, the resulting EPDCs and DVs also may not be representative. Individuals using the information presented in this Attachment are encouraged to contact the Air Resources Board's Technical Support Division to determine whether the data of concern indeed are complete and representative.

Finally, it is important to note that the EPDC is the same indicator which the Air Resources Board endorsed for the districts to use as an indicator in reporting their progress toward attainment of the state standards, as required by the Health and Safety Code subsections 40924(b) and (c). The use of the EPDC is described more fully in the document titled: "Guidance for Using Air Quality-Related Indicators in Reporting Progress in Attaining the State Ambient Air Quality Standards" (Air Resources Board, September 1993).

TABLE E-1

Ozone Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Ozone Standard is 9 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                 | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>NORTH COAST AIR BASIN</u>            |               |                           |              |            |             |
| DEL NORTE                               | 0800654       | GASQUET-AIRPORT           | 6.14         | 6          | 713         |
| MENDOCINO                               | 2300769       | UKIAH-E GOBBI STREET      | 7.03         | 7          | 426         |
| SONOMA                                  | 4900899       | HEALDSBURG-MUNICIPAL AP   | 8.69         | 9          | 640         |
| <u>SAN FRANCISCO BAY AREA AIR BASIN</u> |               |                           |              |            |             |
| ALAMEDA                                 | 6000336       | FREMONT-CHAPEL WAY        | 11.10        | 11         | 1095        |
|                                         | 6000337       | HAYWARD-LA MESA           | 8.94         | 9          | 1091        |
|                                         | 6000339       | OAKLAND-ALICE             | 6.47         | 6          | 1095        |
|                                         | 6000340       | LIVERMORE OLD FIRST ST    | 12.52        | 13         | 1092        |
|                                         | 6000343       | SAN LEANDRO-CO HOSPITAL   | 10.28        | 10         | 1092        |
| CONTRA COSTA                            | 0700430       | PITTSBURG                 | 10.23        | 10         | 1092        |
|                                         | 0700433       | RICHMOND-13TH ST          | 7.83         | 8          | 1090        |
|                                         | 0700440       | CONCORD-2975 TREAT BLVD   | 10.73        | 11         | 1094        |
|                                         | 0700442       | BETHEL ISLAND RD          | 11.08        | 11         | 1095        |
| MARIN                                   | 2100451       | SAN RAFAEL                | 7.50         | 8          | 1091        |
| NAPA                                    | 2800783       | NAPA-JEFFERSON ST         | 9.72         | 10         | 1064        |
| SAN FRANCISCO                           | 9000306       | SAN FRANCISCO-10 ARKANSAS | 5.93         | 6          | 1087        |
| SAN MATEO                               | 4100541       | REDWOOD CITY              | 7.48         | 7          | 1094        |
| SANTA CLARA                             | 4300380       | LOS GATOS                 | 11.76        | 12         | 1082        |
|                                         | 4300382       | SAN JOSE-4TH ST           | 10.84        | 11         | 1092        |
|                                         | 4300387       | MOUNTAIN VIEW-CUESTA      | 9.73         | 10         | 1093        |
|                                         | 4300389       | GILROY-9TH ST             | 11.63        | 12         | 1093        |
|                                         | 4300390       | SAN JOSE-W SAN CARLOS ST  | 10.23        | 10         | 1082        |
|                                         | 4300392       | SAN JOSE-PIEDMONT STREET  | 11.58        | 11         | 494         |
| SOLANO                                  | 4800875       | FAIRFIELD-BAAQMD          | 10.20        | 10         | 1093        |
|                                         | 4800879       | VALLEJO-TUOLUMNE          | 9.31         | 9          | 1094        |
| SONOMA                                  | 4900887       | SONOMA-1ST ST             | 8.96         | 9          | 810         |
|                                         | 4900893       | SANTA ROSA-837 FIFTH ST   | 8.03         | 8          | 1094        |
| <u>NORTH CENTRAL COAST AIR BASIN</u>    |               |                           |              |            |             |
| MONTEREY                                | 2700544       | SALINAS-II                | 6.77         | 7          | 1062        |
|                                         | 2700550       | CARMEL VALLEY-35 FORD RD  | 8.98         | 9          | 1057        |
|                                         | 2700551       | KING CITY-750 METZ ROAD   | 8.77         | 9          | 1052        |
|                                         | 2700552       | MONTEREY-SILVER CLOUD CT  | 8.65         | 9          | 479         |
| SAN BENITO                              | 3500823       | HOLLISTER-1979 FAIRVIEW   | 10.27        | 10         | 1095        |
|                                         | 3500824       | PINNACLES NATL MONUMENT   | 11.02        | 11         | 1016        |

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Ozone Standard is 9 pphm, not to be exceeded)

| AIR BASIN/COUNTY                                 | SITE #  | SITE NAME                 | EPDC* | DV* | OBS* |
|--------------------------------------------------|---------|---------------------------|-------|-----|------|
| <u>NORTH CENTRAL COAST AIR BASIN (continued)</u> |         |                           |       |     |      |
| SANTA CRUZ                                       | 4400850 | SANTA CRUZ-966 BOSTWICK   | 8.45  | 8   | 1087 |
|                                                  | 4400851 | DAVENPORT                 | 7.24  | 7   | 1037 |
|                                                  | 4400852 | WATSONVILLE-444 AIRPORT   | 9.41  | 9   | 516  |
|                                                  | 4400853 | SCOTTS VALLEY-VINE HILL   | 10.11 | 10  | 507  |
| <u>SOUTH CENTRAL COAST AIR BASIN</u>             |         |                           |       |     |      |
| SAN LUIS OBISPO                                  | 4000833 | MORRO BAY                 | 7.43  | 7   | 1095 |
|                                                  | 4000834 | NIPOMO                    | 8.60  | 9   | 1078 |
|                                                  | 4000835 | SAN LUIS OBISPO-MARSH     | 7.68  | 8   | 1085 |
|                                                  | 4000844 | GROVER CITY-LESAGE DRIVE  | 7.23  | 7   | 1077 |
| SANTA BARBARA                                    | 4000847 | ATASCADERO-LEWIS AVENUE   | 9.77  | 10  | 1023 |
|                                                  | 4000849 | NIPOMO-1300 GUADALUPE RD  | 8.32  | 8   | 896  |
|                                                  | 4000850 | PASO ROBLES-235 SANTA FE  | 9.58  | 9   | 832  |
|                                                  | 4200363 | GOLETA                    | 10.82 | 11  | 1043 |
|                                                  | 4200369 | SANTA YNEZ AIRPORT        | 9.69  | 10  | 1077 |
|                                                  | 4200370 | EL CAPITAN BEACH          | 10.27 | 10  | 1069 |
|                                                  | 4200381 | LOMPOC-128 SOUTH H ST     | 8.31  | 8   | 1038 |
|                                                  | 4200387 | SANTA MARIA-BROADWAY      | 6.00  | 6   | 1036 |
|                                                  | 4200388 | SANTA BARBARA-3 W CARILLO | 9.79  | 10  | 1087 |
|                                                  | 4200389 | BATTLES-BETTERAVIA ROAD   | 8.65  | 9   | 997  |
|                                                  | 4200390 | VANDENBERG-STS POWER PLNT | 9.77  | 10  | 943  |
|                                                  | 4200391 | VANDENBERG-PT ARGUELLO    | 10.18 | 10  | 991  |
|                                                  | 4200392 | JALAMA BEACH COUNTY PARK  | 8.95  | 9   | 879  |
|                                                  | 4200394 | LOMPOC-HS & P             | 9.63  | 10  | 1001 |
| VENTURA                                          | 4200395 | LOS PADRES NF-PARADISE RD | 11.34 | 11  | 1002 |
|                                                  | 4200396 | GAVIOTA-WEST (CHEVRON)    | 10.69 | 11  | 1002 |
|                                                  | 4200397 | GAVIOTA-EAST (CHEVRON)    | 10.76 | 11  | 1002 |
|                                                  | 4200398 | GAVIOTA TC-SITE A         | 10.44 | 10  | 750  |
|                                                  | 4200399 | GAVIOTA TC-SITE B NOJOQUI | 11.25 | 11  | 1002 |
|                                                  | 4200400 | GAVIOTA TC-SITE C         | 10.96 | 11  | 972  |
|                                                  | 4200401 | SANTA BARBARA-UC W CAMPUS | 10.38 | 10  | 1004 |
|                                                  | 4200402 | CARPINTERIA-GOBERNADOR RD | 11.57 | 12  | 988  |
|                                                  | 5600427 | PIRU-2SW                  | 12.38 | 12  | 1093 |
|                                                  | 5600429 | VENTURA CO-W CASITAS PASS | 13.42 | 13  | 1057 |
|                                                  | 5600430 | OJAI-1768 MARICOPA HWY    | 13.40 | 13  | 1083 |
|                                                  | 5600433 | VENTURA-EMMA WOOD ST BCH  | 11.53 | 12  | 1019 |
|                                                  | 5600434 | SIMI VALLEY-5400 COCHRAN  | 15.68 | 16  | 1082 |
|                                                  | 5600435 | THOUSAND OAKS-MOORPARK RD | 13.19 | 13  | 639  |
|                                                  | 5600436 | EL RIO-RIO MESA SCHOOL #2 | 12.50 | 13  | 671  |

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Ozone Standard is 9 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>      | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>SOUTH COAST AIR BASIN</u> |               |                           |              |            |             |
| LOS ANGELES                  | 7000060       | AZUSA                     | 25.82        | 26         | 1096        |
|                              | 7000069       | BURBANK                   | 21.95        | 22         | 1095        |
|                              | 7000072       | NORTH LONG BEACH          | 13.19        | 13         | 1095        |
|                              | 7000074       | RESEDA                    | 18.89        | 19         | 1095        |
|                              | 7000075       | POMONA                    | 23.59        | 24         | 1094        |
|                              | 7000080       | WHITTIER                  | 19.71        | 19         | 1096        |
|                              | 7000084       | LYNWOOD                   | 13.57        | 14         | 1096        |
|                              | 7000085       | PICO RIVERA               | 21.93        | 22         | 1094        |
|                              | 7000087       | LOS ANGELES-N. MAIN       | 17.76        | 18         | 1090        |
|                              | 7000088       | PASADENA-WILSON           | 24.03        | 24         | 1083        |
|                              | 7000089       | SANTA CLARITA-SAN FERNAND | 22.89        | 22         | 1094        |
|                              | 7000091       | WEST LOS ANGELES-VA HOSP  | 16.49        | 16         | 1096        |
|                              | 7000094       | HAWTHORNE                 | 12.79        | 13         | 1096        |
|                              | 7000591       | GLENDORA-LAUREL           | 28.49        | 28         | 1078        |
| ORANGE                       | 3000176       | ANAHEIM                   | 18.15        | 18         | 1096        |
|                              | 3000177       | LA HABRA                  | 19.59        | 19         | 1094        |
|                              | 3000186       | EL TORO                   | 16.89        | 17         | 1095        |
|                              | 3000190       | LOS ALAMITOS-ORANGEWOOD   | 15.48        | 15         | 1094        |
| RIVERSIDE                    | 3000195       | COSTA MESA-MESA VERDE DR  | 13.84        | 14         | 1086        |
|                              | 3300141       | HEMET-STATE ST            | 15.94        | 16         | 1095        |
|                              | 3300144       | RIVERSIDE-RUBIDOUX        | 23.91        | 24         | 1090        |
|                              | 3300149       | PERRIS                    | 19.78        | 20         | 1093        |
|                              | 3300155       | NORCO-NORCONIAN           | 20.77        | 21         | 1093        |
|                              | 3300159       | LAKE ELSINORE             | 18.84        | 19         | 908         |
| SAN BERNARDINO               | 3300160       | TEMECULA-30250 RANCHO CA  | 12.32        | 12         | 778         |
|                              | 3600175       | UPLAND-ARB                | 24.69        | 25         | 1095        |
|                              | 3600181       | LAKE GREGORY              | 25.19        | 25         | 1096        |
|                              | 3600197       | FONTANA-ARROW HWY         | 24.92        | 25         | 1096        |
|                              | 3600203       | SAN BERNARDINO-FOURTH ST  | 23.81        | 24         | 1096        |
|                              | 3600204       | REDLANDS-DEARBORN         | 24.22        | 23         | 1096        |
| <u>SAN DIEGO AIR BASIN</u>   |               |                           |              |            |             |
| SAN DIEGO                    | 8000114       | CHULA VISTA               | 13.08        | 13         | 1091        |
|                              | 8000115       | ESCONDIDO-VALLEY PKWY     | 14.28        | 14         | 1095        |
|                              | 8000123       | SAN DIEGO-OVERLAND        | 14.55        | 15         | 1086        |
|                              | 8000128       | ALPINE-VICTORIA           | 14.87        | 15         | 1088        |
|                              | 8000131       | EL CAJON-REDWOOD AVE      | 13.31        | 13         | 1089        |

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Ozone Standard is 9 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|----------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SAN DIEGO AIR BASIN (continued)</u> |               |                            |              |            |             |
| SAN DIEGO<br>(cont'd)                  | 8000133       | DEL MAR-MIRACOSTA COLLEGE  | 13.82        | 14         | 1093        |
|                                        | 8000134       | OCEANSIDE-1701 MISSION AVE | 13.33        | 13         | 1095        |
|                                        | 8000138       | SAN DIEGO-330A 12TH AVE    | 12.79        | 13         | 1095        |
|                                        | 8000139       | OTAY MESA-1100 PASEO INTL  | 12.54        | 13         | 1095        |
| <u>NORTHEAST PLATEAU AIR BASIN</u>     |               |                            |              |            |             |
| SISKIYOU                               | 4700861       | YREKA                      | 7.23         | 7          | 704         |
| <u>SACRAMENTO VALLEY AIR BASIN</u>     |               |                            |              |            |             |
| BUTTE                                  | 0400628       | CHICO-MANZANITA            | 8.99         | 9          | 1063        |
| GLENN                                  | 1100673       | WILLOWS-VILLA AVE          | 10.23        | 10         | 995         |
| PLACER                                 | 3100813       | AUBURN-DEWITT-C AVE        | 13.66        | 14         | 772         |
|                                        | 3100820       | ROCKLIN-5000 ROCKLIN RD    | 13.68        | 14         | 973         |
| SACRAMENTO                             | 3400286       | SACTO-MEADOWVIEW RD        | 11.25        | 11         | 759         |
|                                        | 3400287       | FOLSOM                     | 15.73        | 16         | 945         |
|                                        | 3400293       | CITRUS HTS-SUNRISE BLVD    | 13.26        | 13         | 806         |
|                                        | 3400294       | NORTH HIGHLANDS-BLACKFOOT  | 11.44        | 11         | 764         |
|                                        | 3400295       | SACRAMENTO-DEL PASO MANOR  | 13.67        | 13         | 1028        |
|                                        | 3400305       | SACRAMENTO-1309 T STREET   | 11.30        | 11         | 1056        |
|                                        | 3400307       | SACRAMENTO-EARHART DRIVE   | 11.78        | 12         | 1035        |
|                                        | 3400310       | ELK GROVE-BRUCEVILLE ROAD  | 10.87        | 10         | 392         |
| SHASTA                                 | 4500555       | REDDING-H.D. ROOF          | 11.10        | 11         | 502         |
| SUTTER                                 | 5100897       | PLEASANT GROVE-4SW         | 10.99        | 11         | 966         |
|                                        | 5100898       | YUBA CITY-ALMOND STREET    | 11.01        | 11         | 1042        |
| TEHAMA                                 | 5200909       | RED BLUFF-1760 WALNUT ST   | 10.64        | 11         | 943         |
| YOLO                                   | 5700577       | DAVIS-UCD CAMPUS           | 10.40        | 10         | 855         |
|                                        | 5700579       | WOODLAND-40 SUTTER STREET  | 11.01        | 11         | 630         |
| <u>SAN JOAQUIN VALLEY AIR BASIN</u>    |               |                            |              |            |             |
| FRESNO                                 | 1000230       | PARLIER                    | 15.21        | 15         | 1085        |
|                                        | 1000244       | FRESNO-4706 E DRUMMOND     | 14.88        | 15         | 1080        |
|                                        | 1000245       | FRESNO-SIERRA SKYPARK #2   | 13.58        | 14         | 884         |
|                                        | 1000246       | FRESNO-3425 FIRST STREET   | 16.20        | 16         | 1053        |
|                                        | 1000248       | CLOVIS-908 N VILLA AVENUE  | 15.43        | 15         | 1088        |

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Ozone Standard is 9 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                         | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-------------------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>SAN JOAQUIN VALLEY AIR BASIN (continued)</u> |               |                           |              |            |             |
| KERN                                            | 1500203       | BAKERSFIELD-CHESTER ST    | 13.15        | 13         | 1079        |
|                                                 | 1500242       | EDISON                    | 15.20        | 15         | 1083        |
|                                                 | 1500243       | OILDALE-3311 MANOR        | 12.36        | 12         | 1081        |
|                                                 | 1500247       | ARVIN                     | 15.24        | 15         | 1025        |
|                                                 | 1500248       | SHAFTER                   | 11.13        | 11         | 1085        |
| KINGS                                           | 1600701       | HANFORD                   | 10.61        | 11         | 928         |
| MADERA                                          | 2000003       | MADERA-HEALTH DEPT        | 12.49        | 12         | 1017        |
| MERCED                                          | 2400528       | MERCED-385 S COFFEE AVE   | 12.53        | 13         | 764         |
| SAN JOAQUIN                                     | 3900252       | STOCKTON-HAZELTON ST      | 11.03        | 11         | 1075        |
|                                                 | 3900267       | STOCKTON-13521 E MARIPOSA | 11.72        | 12         | 1026        |
| STANISLAUS                                      | 5000568       | MODESTO-814 14TH ST       | 11.93        | 12         | 1089        |
|                                                 | 5000573       | TURLOCK-900 S MINARET     | 11.69        | 12         | 577         |
| TULARE                                          | 5400568       | VISALIA-CHURCH STREET     | 13.40        | 13         | 1062        |
| <u>GREAT BASIN VALLEYS AIR BASIN</u>            |               |                           |              |            |             |
| INYO                                            | 1400723       | BISHOP-157 SHORT STREET   | 8.90         | 8          | 604         |
| MONO                                            | 2600785       | MAMMOTH LAKES-GATEWAY HC  | 10.61        | 10         | 724         |
| <u>SOUTHEAST DESERT AIR BASIN</u>               |               |                           |              |            |             |
| IMPERIAL                                        | 1300694       | EL CENTRO-150 9TH ST      | 11.94        | 12         | 1051        |
|                                                 | 1300695       | CALEXICO-900 GRANT STREET | 15.88        | 15         | 744         |
| LOS ANGELES                                     | 7000096       | LANCASTER-W PONDERA ST    | 15.79        | 16         | 1093        |
| RIVERSIDE                                       | 3300137       | PALM SPRINGS-FIRE STN     | 15.81        | 16         | 1070        |
|                                                 | 3300150       | BANNING-ALLESANDRO        | 17.77        | 18         | 1086        |
|                                                 | 3300157       | INDIO-JACKSON             | 14.87        | 14         | 1093        |
|                                                 | 3300161       | BLYTHE-449 W MURPHY ST    | 9.08         | 9          | 429         |
| SAN BERNARDINO                                  | 3600155       | BARSTOW                   | 12.12        | 12         | 968         |
|                                                 | 3600188       | TRONA-MARKET ST           | 9.99         | 10         | 973         |
|                                                 | 3600191       | TWENTYNINE PALMS-ADOBE    | 12.60        | 13         | 920         |
|                                                 | 3600201       | HESPERIA-17288 OLIVES     | 19.22        | 19         | 1081        |
|                                                 | 3600207       | PHELAN                    | 19.21        | 19         | 1069        |
|                                                 | 3600209       | VICTORVILLE-ARMAGOSA      | 16.85        | 17         | 948         |

TABLE E-1 (continued)

Ozone Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Ozone Standard is 9 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>            | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>MOUNTAIN COUNTIES AIR BASIN</u> |               |                           |              |            |             |
| AMADOR                             | 0300614       | JACKSON-201 CLINTON ROAD  | 11.59        | 12         | 595         |
| EL DORADO                          | 0900690       | PLACERVILLE-GOLD NUGGET   | 12.07        | 12         | 588         |
| NEVADA                             | 2900794       | TRUCKEE-FIRE STATION      | 7.34         | 7          | 246         |
|                                    | 2900797       | NEVADA CITY-WILLOW VALLEY | 10.17        | 10         | 601         |
| PLACER                             | 3100818       | COLFAX-CITY HALL          | 11.84        | 12         | 577         |
| PLUMAS                             | 3200821       | QUINCY-267 N CHURCH ST    | 8.44         | 8          | 274         |
| TUOLUMNE                           | 5500930       | SONORA-251 S BARRETTA ST  | 10.08        | 10         | 517         |
| <u>LAKE COUNTY AIR BASIN</u>       |               |                           |              |            |             |
| LAKE                               | 1700713       | LAKEPORT-LAKEPORT BLVD    | 7.61         | 8          | 1089        |
| <u>LAKE TAHOE AIR BASIN</u>        |               |                           |              |            |             |
| EL DORADO                          | 0900691       | S LAKE TAHOE-3337 SANDY   | 7.76         | 8          | 393         |

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\* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-2

Carbon Monoxide Expected Peak Day Concentrations  
and Designation Values for 1991-1993

8-Hour Average Concentrations in parts per million (ppm)  
(State Carbon Monoxide Standard is 9.0 ppm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                 | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>NORTH COAST AIR BASIN</u>            |               |                           |              |            |             |
| MENDOCINO                               | 2300769       | UKIAH-E GOBBI STREET      | 1.97         | 2.0        | 391         |
| <u>SAN FRANCISCO BAY AREA AIR BASIN</u> |               |                           |              |            |             |
| ALAMEDA                                 | 6000336       | FREMONT-CHAPEL WAY        | 4.33         | 4.3        | 1090        |
|                                         | 6000339       | OAKLAND-ALICE             | 5.38         | 5.1        | 1083        |
|                                         | 6000340       | LIVERMORE OLD FIRST ST    | 3.87         | 3.9        | 1089        |
| CONTRA COSTA                            | 0700430       | PITTSBURG                 | 3.97         | 4.0        | 1073        |
|                                         | 0700433       | RICHMOND-13TH ST          | 3.64         | 3.6        | 1084        |
|                                         | 0700440       | CONCORD-2975 TREAT BLVD   | 4.90         | 4.8        | 1083        |
|                                         | 0700442       | BETHEL ISLAND RD          | 2.03         | 2.0        | 1087        |
| MARIN                                   | 2100451       | SAN RAFAEL                | 4.66         | 4.7        | 1070        |
| NAPA                                    | 2800783       | NAPA-JEFFERSON ST         | 5.32         | 5.3        | 1077        |
| SAN FRANCISCO                           | 9000303       | SAN FRANCISCO-ELLIS ST    | 6.17         | 5.5        | 1089        |
|                                         | 9000306       | SAN FRANCISCO-10 ARKANSAS | 5.29         | 5.3        | 1088        |
| SAN MATEO                               | 4100541       | REDWOOD CITY              | 5.19         | 4.9        | 1087        |
| SANTA CLARA                             | 4300382       | SAN JOSE-4TH ST           | 9.04         | 8.3        | 1038        |
|                                         | 4300389       | GILROY-9TH ST             | 3.09         | 3.0        | 1088        |
|                                         | 4300390       | SAN JOSE-W SAN CARLOS ST  | 7.51         | 7.3        | 1091        |
| SOLANO                                  | 4800879       | VALLEJO-TUOLUMNE          | 8.02         | 7.9        | 1091        |
| SONOMA                                  | 4900893       | SANTA ROSA-837 FIFTH ST   | 3.91         | 3.8        | 1084        |
| <u>NORTH CENTRAL COAST AIR BASIN</u>    |               |                           |              |            |             |
| MONTEREY                                | 2700544       | SALINAS-II                | 2.44         | 2.4        | 969         |
|                                         | 2700551       | KING CITY-750 METZ ROAD   | 1.22         | 1.1        | 1067        |
| SANTA CRUZ                              | 4400851       | DAVENPORT                 | 1.92         | 1.1        | 890         |
| <u>SOUTH CENTRAL COAST AIR BASIN</u>    |               |                           |              |            |             |
| SAN LUIS OBISPO                         | 4000835       | SAN LUIS OBISPO-MARSH     | 3.33         | 3.3        | 1088        |
| SANTA BARBARA                           | 4200363       | GOLETA                    | 2.09         | 2.1        | 1042        |
|                                         | 4200381       | LOMPOC-128 SOUTH H ST     | 2.02         | 2.0        | 1062        |
|                                         | 4200388       | SANTA BARBARA-3 W CARILLO | 5.93         | 5.9        | 930         |
|                                         | 4200390       | VANDENBERG STS POWER PLNT | 0.49         | 0.5        | 925         |
| VENTURA                                 | 5600434       | SIMI VALLEY-5400 COCHRAN  | 3.78         | 3.7        | 1075        |
|                                         | 5600436       | EL RIO-RIO MESA SCHOOL #2 | 2.11         | 1.6        | 418         |

TABLE E-2 (continued)

Carbon Monoxide Expected Peak Day Concentrations  
and Designation Values for 1991-1993

8-Hour Average Concentrations in parts per million (ppm)  
(State Carbon Monoxide Standard is 9.0 ppm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>      | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SOUTH COAST AIR BASIN</u> |               |                            |              |            |             |
| LOS ANGELES                  | 7000060       | AZUSA                      | 4.87         | 4.7        | 1086        |
|                              | 7000069       | BURBANK                    | 10.71        | 10.6       | 1088        |
|                              | 7000072       | NORTH LONG BEACH           | 8.26         | 8.1        | 1033        |
|                              | 7000074       | RESEDA                     | 10.53        | 10.1       | 1083        |
|                              | 7000075       | POMONA                     | 6.83         | 6.8        | 1083        |
|                              | 7000080       | WHITTIER                   | 7.17         | 7.1        | 1089        |
|                              | 7000084       | LYNWOOD                    | 16.31        | 15.7       | 1083        |
|                              | 7000085       | PICO RIVERA                | 8.16         | 8.1        | 1085        |
|                              | 7000087       | LOS ANGELES-N MAIN         | 8.75         | 8.7        | 1073        |
|                              | 7000088       | PASADENA-WILSON            | 8.22         | 7.6        | 1075        |
|                              | 7000089       | SANTA CLARITA-SAN FERNANDO | 3.98         | 3.9        | 1081        |
|                              | 7000091       | WEST LOS ANGELES-VA HOSP   | 5.79         | 5.7        | 1089        |
|                              | 7000094       | HAWTHORNE                  | 11.68        | 11.3       | 1085        |
|                              | 3000176       | ANAHEIM                    | 8.65         | 8.6        | 1087        |
| ORANGE                       | 3000177       | LA HABRA                   | 8.15         | 8.0        | 1079        |
|                              | 3000186       | EL TORO                    | 4.62         | 4.5        | 1080        |
| RIVERSIDE                    | 3000195       | COSTA MESA-MESA VERDE DR   | 8.41         | 8.3        | 1085        |
|                              | 3300144       | RIVERSIDE-RUBIDOUX         | 5.44         | 5.3        | 1088        |
|                              | 3300146       | RIVERSIDE-MAGNOLIA         | 6.28         | 6.3        | 1063        |
|                              | 3300160       | TEMECULA-30250 RANCHO CA   | 3.10         | 3.1        | 610         |
| SAN BERNARDINO               | 3600203       | SAN BERNARDINO-FOURTH ST   | 5.49         | 5.4        | 1089        |
| <u>SAN DIEGO AIR BASIN</u>   |               |                            |              |            |             |
| SAN DIEGO                    | 8000114       | CHULA VISTA                | 3.76         | 3.8        | 1074        |
|                              | 8000115       | ESCONDIDO-VALLEY PKWY      | 7.21         | 7.1        | 1087        |
|                              | 8000123       | SAN DIEGO-OVERLAND         | 3.45         | 3.4        | 1082        |
|                              | 8000130       | SAN DIEGO-1133 UNION ST    | 7.02         | 6.8        | 1077        |
|                              | 8000131       | EL CAJON-REDWOOD AVE       | 5.14         | 5.1        | 1088        |
|                              | 8000134       | OCEANSIDE-1701 MISSION AVE | 3.58         | 3.6        | 1086        |
|                              | 8000138       | SAN DIEGO-330A 12TH AVE    | 6.98         | 7.0        | 1087        |
|                              | 8000139       | OTAY MESA-1100 PASEO INTL  | 4.17         | 4.1        | 1083        |

TABLE E-2 (continued)

**Carbon Monoxide Expected Peak Day Concentrations  
and Designation Values for 1991-1993**

8-Hour Average Concentrations in parts per million (ppm)  
(State Carbon Monoxide Standard is 9.0 ppm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>             | <u>SITE #</u> | <u>SITE NAME</u>            | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-------------------------------------|---------------|-----------------------------|--------------|------------|-------------|
| <u>SACRAMENTO VALLEY AIR BASIN</u>  |               |                             |              |            |             |
| BUTTE                               | 0400628       | CHICO-MANZANITA             | 4.76         | 4.6        | 1054        |
|                                     | 0400633       | CHICO-SALEM ST *            | 8.16         | 7.9        | 790         |
| PLACER                              | 3100820       | ROCKLIN-5000 ROCKLIN RD     | 2.30         | 2.3        | 752         |
| SACRAMENTO                          | 3400289       | SACRAMENTO-EL CAMINO/WATT   | 10.29        | 10.3       | 1091        |
|                                     | 3400293       | CITRUS HTS-SUNRISE BLVD     | 5.63         | 5.6        | 786         |
|                                     | 3400294       | NORTH HIGHLANDS-BLACKFOOT   | 4.49         | 4.5        | 1056        |
|                                     | 3400295       | SACRAMENTO-DEL PASO MANOR   | 7.83         | 7.8        | 1073        |
|                                     | 3400305       | SACRAMENTO-1309 T STREET    | 9.36         | 9.4        | 1037        |
|                                     | 3400307       | SACRAMENTO-EARHART DRIVE    | 5.24         | 4.8        | 946         |
| SHASTA                              | 4500555       | REDDING-H.D. ROOF           | 1.70         | 1.6        | 287         |
| SUTTER                              | 5100898       | YUBA CITY-ALMOND STREET     | 6.83         | 6.4        | 871         |
| YOLO                                | 5700579       | WOODLAND-40 SUTTER STREET   | 3.29         | 3.3        | 453         |
| <u>SAN JOAQUIN VALLEY AIR BASIN</u> |               |                             |              |            |             |
| FRESNO                              | 1000230       | PARLIER                     | 2.02         | 2.0        | 1067        |
|                                     | 1000244       | FRESNO-4706 E DRUMMOND      | 5.56         | 5.5        | 1072        |
|                                     | 1000245       | FRESNO-SIERRA SKYPARK #2    | 2.72         | 2.7        | 1085        |
|                                     | 1000246       | FRESNO-3425 FIRST STREET ** | 8.92         | 8.0        | 1084        |
|                                     | 1000248       | CLOVIS-908 N VILLA AVENUE   | 4.06         | 3.9        | 1091        |
| KERN                                | 1500203       | BAKERSFIELD-CHESTER ST      | 6.39         | 6.1        | 1076        |
|                                     | 1500242       | EDISON                      | 2.07         | 2.0        | 1059        |
|                                     | 1500243       | OILDALE-3311 MANOR          | 1.98         | 2.0        | 1055        |
| MERCED                              | 2400529       | MERCED-415 W 18TH STREET    | 5.64         | 5.4        | 87          |
| SAN JOAQUIN                         | 3900252       | STOCKTON-HAZELTON ST        | 6.91         | 6.5        | 1012        |
|                                     | 3900266       | STOCKTON-4310 CLAREMONT     | 8.80         | 8.6        | 1055        |
| STANISLAUS                          | 5000568       | MODESTO-814 14TH ST         | 8.68         | 8.6        | 1079        |
|                                     | 5000573       | TURLOCK-900 S MINARET       | 3.61         | 3.6        | 572         |
| TULARE                              | 5400568       | VISALIA-CHURCH STREET       | 4.84         | 4.8        | 1088        |

\* While the Chico-Salem site shows no CO violations, the Chico Urbanized Area is not redesignated to attainment because the data are incomplete and do not meet the representativeness criteria.

\*\* While the Fresno-First Street site shows no CO violations, the Fresno Urbanized Area is not redesignated to attainment because the Board staff has determined that this site is not equivalent to the prior high CO site at Olive Street on which the nonattainment designation was based.

TABLE E-2 (continued)

Carbon Monoxide Expected Peak Day Concentrations  
and Designation Values for 1991-1993

8-Hour Average Concentrations in parts per million (ppm)  
(State Carbon Monoxide Standard is 9.0 ppm, not to be exceeded;  
6 ppm for the Lake Tahoe Air Basin, not to be equalled or exceeded)

| <u>AIR BASIN/COUNTY</u>              | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|--------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>GREAT BASIN VALLEYS AIR BASIN</u> |               |                           |              |            |             |
| INYO                                 | 1400723       | BISHOP-157 SHORT STREET   | 3.33         | 3.3        | 685         |
| MONO                                 | 2600785       | MAMMOTH LAKES-GATEWAY HC  | 4.60         | 4.6        | 794         |
| <u>SOUTHEAST DESERT AIR BASIN</u>    |               |                           |              |            |             |
| LOS ANGELES                          | 7000096       | LANCASTER-W PONDERA ST    | 6.11         | 5.9        | 1083        |
| RIVERSIDE                            | 3300137       | PALM SPRINGS-FIRE STN     | 2.03         | 2.0        | 1001        |
| SAN BERNARDINO                       | 3600155       | BARSTOW                   | 3.40         | 3.4        | 895         |
|                                      | 3600201       | HESPERIA-17288 OLIVES     | 3.64         | 3.5        | 1053        |
|                                      | 3600207       | PHELAN                    | 2.16         | 2.0        | 1056        |
| <u>MOUNTAIN COUNTIES AIR BASIN</u>   |               |                           |              |            |             |
| AMADOR                               | 0300614       | JACKSON-201 CLINTON ROAD  | 1.94         | 1.9        | 603         |
| EL DORADO                            | 0900690       | PLACERVILLE-GOLD NUGGET   | 1.20         | 1.1        | 581         |
| NEVADA                               | 2900797       | NEVADA CITY-WILLOW VALLEY | 0.59         | 0.1        | 304         |
| TUOLUMNE                             | 5500930       | SONORA-251 S BARRETTA ST  | 2.63         | 2.6        | 500         |
| <u>LAKE TAHOE AIR BASIN</u>          |               |                           |              |            |             |
| EL DORADO                            | 0900683       | S LAKE TAHOE-STATELINE    | 8.25         | 7.6        | 996         |

\* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-3

**Nitrogen Dioxide Expected Peak Day Concentrations  
and Designation Values for 1991-1993**

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Nitrogen Dioxide Standard is 25 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                 | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>NORTH COAST AIR BASIN</u>            |               |                            |              |            |             |
| MENDOCINO                               | 2300769       | UKIAH-E GOBBI STREET       | 5.92         | 5          | 336         |
| <u>SAN FRANCISCO BAY AREA AIR BASIN</u> |               |                            |              |            |             |
| ALAMEDA                                 | 6000336       | FREMONT-CHAPEL WAY         | 11.14        | 11         | 1085        |
|                                         | 6000340       | LIVERMORE OLD FIRST ST     | 10.25        | 10         | 1092        |
| CONTRA COSTA                            | 0700430       | PITTSBURG                  | 8.38         | 8          | 1090        |
|                                         | 0700433       | RICHMOND-13TH ST           | 8.17         | 8          | 1089        |
|                                         | 0700440       | CONCORD-2975 TREAT BLVD    | 9.55         | 10         | 1094        |
|                                         | 0700442       | BETHEL ISLAND RD           | 6.73         | 7          | 1088        |
| MARIN                                   | 2100451       | SAN RAFAEL                 | 8.42         | 8          | 1078        |
| NAPA                                    | 2800783       | NAPA-JEFFERSON ST          | 8.15         | 8          | 1094        |
| SAN FRANCISCO                           | 9000306       | SAN FRANCISCO-10 ARKANSAS  | 9.88         | 10         | 1078        |
| SAN MATEO                               | 4100541       | REDWOOD CITY               | 10.99        | 11         | 1095        |
| SANTA CLARA                             | 4300382       | SAN JOSE-4TH ST            | 13.99        | 14         | 1096        |
|                                         | 4300390       | SAN JOSE-W SAN CARLOS ST   | 13.22        | 13         | 1087        |
| SOLANO                                  | 4800879       | VALLEJO-TUOLUMNE           | 8.59         | 9          | 1087        |
| SONOMA                                  | 4900893       | SANTA ROSA-837 FIFTH ST    | 8.15         | 8          | 1075        |
| <u>NORTH CENTRAL COAST AIR BASIN</u>    |               |                            |              |            |             |
| MONTEREY                                | 2700544       | SALINAS-II                 | 6.35         | 6          | 1095        |
|                                         | 2700551       | KING CITY-750 METZ ROAD    | 3.99         | 4          | 999         |
| SANTA CRUZ                              | 4400851       | DAVENPORT                  | 4.84         | 5          | 904         |
| <u>SOUTH CENTRAL COAST AIR BASIN</u>    |               |                            |              |            |             |
| SAN LUIS OBISPO                         | 4000834       | NIPOMO                     | 5.28         | 5          | 1089        |
|                                         | 4000835       | SAN LUIS OBISPO-MARSH      | 6.94         | 7          | 1072        |
|                                         | 4000844       | GROVER CITY-LESAGE DRIVE   | 5.72         | 6          | 1078        |
|                                         | 4000845       | SAN LUIS OBISPO-7020 LEWIS | 3.82         | 4          | 1023        |
|                                         | 4000847       | ATASCADERO-LEWIS AVENUE    | 7.21         | 7          | 1072        |

TABLE E-3 (continued)

Nitrogen Dioxide Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Nitrogen Dioxide Standard is 25 pphm, not to be exceeded)

| AIR BASIN/COUNTY | SITE # | SITE NAME | EPDC* | DV* | OBS* |
|------------------|--------|-----------|-------|-----|------|
|------------------|--------|-----------|-------|-----|------|

SOUTH CENTRAL COAST AIR BASIN (continued)

|               |         |                           |                           |       |      |      |
|---------------|---------|---------------------------|---------------------------|-------|------|------|
| SANTA BARBARA | 4200363 | GOLETA                    | 7.01                      | 7     | 1003 |      |
|               | 4200370 | EL CAPITAN BEACH          | 6.11                      | 6     | 1064 |      |
|               | 4200381 | LOMPOC-128 SOUTH H ST     | 5.56                      | 6     | 1020 |      |
|               | 4200388 | SANTA BARBARA-3 W CARILLO | 9.85                      | 10    | 1091 |      |
|               | 4200389 | BATTLES-BETTERAVIA ROAD   | 5.45                      | 5     | 1001 |      |
|               | 4200390 | VANDENBERG-STS POWER PLNT | 2.52                      | 3     | 991  |      |
|               | 4200391 | VANDENBERG-PT ARGUELLO    | 2.68                      | 3     | 997  |      |
|               | 4200392 | JALAMA BEACH COUNTY PARK  | 2.39                      | 2     | 873  |      |
|               | 4200393 | POINT CONCEPTION          | 3.72                      | 4     | 938  |      |
|               | 4200394 | LOMPOC-HS & P             | 2.23                      | 2     | 999  |      |
|               | 4200395 | LOS PADRES NF-PARADISE RD | 2.18                      | 2     | 990  |      |
|               | 4200396 | GAVIOTA-WEST (CHEVRON)    | 4.55                      | 5     | 995  |      |
|               | 4200397 | GAVIOTA-EAST (CHEVRON)    | 4.51                      | 5     | 997  |      |
|               | 4200398 | GAVIOTA TC-SITE A         | 7.03                      | 7     | 758  |      |
|               | 4200399 | GAVIOTA TC-SITE B NOJOQUI | 4.85                      | 5     | 996  |      |
|               | 4200400 | GAVIOTA TC-SITE C         | 4.64                      | 5     | 973  |      |
|               | 4200401 | SANTA BARBARA-UC W CAMPUS | 7.11                      | 7     | 1004 |      |
|               | 4200402 | CARPINTERIA-GOBERNADOR RD | 5.52                      | 6     | 993  |      |
|               | VENTURA | 5600429                   | VENTURA CO-W CASITAS PASS | 4.24  | 4    | 1013 |
|               |         | 5600430                   | OJAI-1768 MARICOPA HWY    | 5.69  | 6    | 1071 |
|               |         | 5600433                   | VENTURA-EMMA WOOD ST BCH  | 7.70  | 8    | 983  |
|               |         | 5600434                   | SIMI VALLEY-5400 COCHRAN  | 10.40 | 10   | 1040 |
|               |         | 5600435                   | THOUSAND OAKS-MOORPARK RD | 9.01  | 9    | 463  |
|               |         | 5600436                   | EL RIO-RIO MESA SCHOOL #2 | 7.25  | 7    | 663  |

SOUTH COAST AIR BASIN

|             |                 |                    |       |      |      |
|-------------|-----------------|--------------------|-------|------|------|
| LOS ANGELES | 7000060         | AZUSA              | 20.23 | 20   | 1096 |
|             | 7000069         | BURBANK            | 21.36 | 21   | 1087 |
|             | 7000072         | NORTH LONG BEACH   | 22.52 | 21   | 1089 |
|             | 7000074         | RESEDA             | 16.29 | 16   | 1078 |
|             | 7000075         | POMONA             | 20.70 | 20   | 1087 |
|             | 7000080         | WHITTIER           | 21.38 | 21   | 1093 |
|             | 7000084         | LYNWOOD            | 23.69 | 24   | 1094 |
|             | 7000085         | PICO RIVERA        | 24.42 | 24   | 1089 |
|             | 7000087         | LOS ANGELES-N MAIN | 28.28 | 28   | 1079 |
| 7000088     | PASADENA-WILSON | 23.04              | 23    | 1090 |      |

TABLE E-3 (continued)

Nitrogen Dioxide Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Nitrogen Dioxide Standard is 25 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                  | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|------------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SOUTH COAST AIR BASIN (continued)</u> |               |                            |              |            |             |
| LOS ANGELES<br>(cont'd)                  | 7000089       | SANTA CLARITA-SAN FERNANDO | 12.74        | 13         | 1091        |
|                                          | 7000091       | WEST LOS ANGELES-VA HOSP   | 17.49        | 17         | 1094        |
|                                          | 7000094       | HAWTHORNE                  | 18.27        | 18         | 1069        |
| ORANGE                                   | 7000591       | GLENDORA-LAUREL            | 18.65        | 19         | 1031        |
|                                          | 3000176       | ANAHEIM                    | 21.87        | 21         | 1088        |
|                                          | 3000177       | LA HABRA                   | 19.55        | 20         | 1091        |
| RIVERSIDE                                | 3000195       | COSTA MESA-MESA VERDE DR   | 16.21        | 16         | 1090        |
|                                          | 3300144       | RIVERSIDE-RUBIDOUX         | 15.76        | 16         | 1074        |
|                                          | 3300160       | TEMECULA-30250 RANCHO CA   | 12.32        | 12         | 560         |
| SAN BERNARDINO                           | 3600175       | UPLAND-ARB                 | 16.59        | 16         | 1095        |
|                                          | 3600197       | FONTANA-ARROW HWY          | 15.50        | 14         | 1093        |
|                                          | 3600203       | SAN BERNARDINO-FOURTH ST   | 15.61        | 16         | 1085        |
| <u>SAN DIEGO AIR BASIN</u>               |               |                            |              |            |             |
| SAN DIEGO                                | 8000114       | CHULA VISTA                | 11.90        | 12         | 1089        |
|                                          | 8000115       | ESCONDIDO-VALLEY PKWY      | 13.57        | 14         | 1088        |
|                                          | 8000123       | SAN DIEGO-OVERLAND         | 13.33        | 13         | 1072        |
|                                          | 8000128       | ALPINE-VICTORIA            | 7.78         | 8          | 1077        |
|                                          | 8000131       | EL CAJON-REDWOOD AVE       | 11.99        | 12         | 1090        |
|                                          | 8000134       | OCEANSIDE-1701 MISSION AVE | 15.38        | 13         | 1076        |
|                                          | 8000138       | SAN DIEGO-330A 12TH AVE    | 14.75        | 14         | 1093        |
|                                          | 8000139       | OTAY MESA-1100 PASEO INTL  | 11.21        | 11         | 1032        |
| <u>SACRAMENTO VALLEY AIR BASIN</u>       |               |                            |              |            |             |
| BUTTE                                    | 0400628       | CHICO-MANZANITA            | 8.12         | 8          | 1048        |
| PLACER                                   | 3100820       | ROCKLIN-5000 ROCKLIN RD    | 8.37         | 8          | 751         |
| SACRAMENTO                               | 3400287       | FOLSOM                     | 11.38        | 11         | 1000        |
|                                          | 3400293       | CITRUS HTS-SUNRISE BLVD    | 11.30        | 11         | 769         |
|                                          | 3400294       | NORTH HIGHLANDS-BLACKFOOT  | 10.93        | 11         | 898         |
|                                          | 3400295       | SACRAMENTO-DEL PASO MANOR  | 13.35        | 13         | 748         |
|                                          | 3400305       | SACRAMENTO-1309 T STREET   | 11.30        | 11         | 1067        |
|                                          | 3400307       | SACRAMENTO-EARHART DRIVE   | 9.57         | 10         | 1034        |
| SUTTER                                   | 5100898       | YUBA CITY-ALMOND STREET    | 9.17         | 9          | 882         |

TABLE E-3 (continued)

Nitrogen Dioxide Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Nitrogen Dioxide Standard is 25 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>             | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>SAN JOAQUIN VALLEY AIR BASIN</u> |               |                           |              |            |             |
| FRESNO                              | 1000244       | FRESNO-4706 E DRUMMOND    | 11.54        | 12         | 1085        |
|                                     | 1000245       | FRESNO-SIERRA SKYPARK #2  | 9.20         | 9          | 1086        |
|                                     | 1000246       | FRESNO-3425 FIRST STREET  | 12.12        | 12         | 1084        |
|                                     | 1000248       | CLOVIS-908 N VILLA AVENUE | 10.68        | 11         | 1095        |
| KERN                                | 1500203       | BAKERSFIELD-CHESTER ST    | 11.26        | 11         | 1046        |
|                                     | 1500242       | EDISON                    | 7.53         | 8          | 1081        |
|                                     | 1500243       | OILDALE-3311 MANOR        | 7.67         | 8          | 1009        |
|                                     | 1500247       | ARVIN                     | 5.74         | 6          | 983         |
|                                     | 1500248       | SHAFTER                   | 7.96         | 8          | 1077        |
| MERCED                              | 2400528       | MERCED-385 S COFFEE AVE   | 8.74         | 9          | 761         |
| SAN JOAQUIN                         | 3900252       | STOCKTON-HAZELTON ST      | 13.07        | 13         | 1056        |
| STANISLAUS                          | 5000568       | MODESTO-814 14TH ST       | 10.72        | 11         | 1083        |
|                                     | 5000573       | TURLOCK-900 S MINARET     | 9.10         | 9          | 576         |
| TULARE                              | 5400568       | VISALIA-CHURCH STREET     | 11.01        | 11         | 1073        |
| <u>SOUTHEAST DESERT AIR BASIN</u>   |               |                           |              |            |             |
| LOS ANGELES                         | 7000096       | LANCASTER-W PONDERA ST    | 9.67         | 10         | 1081        |
| RIVERSIDE                           | 3300137       | PALM SPRINGS-FIRE STN     | 9.03         | 9          | 1005        |
| SAN BERNARDINO                      | 3600155       | BARSTOW                   | 10.53        | 11         | 929         |
|                                     | 3600188       | TRONA-MARKET ST           | 23.70        | 24         | 841         |
|                                     | 3600191       | TWENTYNINE PALMS-ADOBE    | 5.20         | 5          | 338         |
|                                     | 3600201       | HESPERIA-17288 OLIVES     | 7.81         | 8          | 904         |
|                                     | 3600207       | PHELAN                    | 4.61         | 5          | 930         |
|                                     | 3600209       | VICTORVILLE-ARMAGOSA      | 11.22        | 11         | 831         |

\* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-4

Sulfur Dioxide (1-Hour) Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State 1-Hour Sulfur Dioxide Standard is 25 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                 | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>NORTH COAST AIR BASIN</u>            |               |                            |              |            |             |
| MENDOCINO                               | 2300769       | UKIAH-E GOBBI STREET       | 2.12         | 2          | 325         |
| <u>SAN FRANCISCO BAY AREA AIR BASIN</u> |               |                            |              |            |             |
| CONTRA COSTA                            | 0700430       | PITTSBURG                  | 3.87         | 4          | 1093        |
|                                         | 0700433       | RICHMOND-13TH ST           | 2.79         | 3          | 1092        |
|                                         | 0700434       | MARTINEZ-JONES ST          | 3.63         | 4          | 1082        |
|                                         | 0700437       | CROCKETT-KENDALL AVE       | 4.32         | 4          | 1081        |
|                                         | 0700440       | CONCORD-2975 TREAT BLVD    | 3.27         | 3          | 1093        |
|                                         | 0700441       | RICHMOND-1065 7TH ST       | 2.96         | 3          | 1086        |
|                                         | 0700442       | BETHEL ISLAND RD           | 1.97         | 2          | 1074        |
| SAN FRANCISCO                           | 9000306       | SAN FRANCISCO-10 ARKANSAS  | 3.55         | 4          | 1057        |
| SOLANO                                  | 4800876       | BENICIA                    | 2.95         | 3          | 1093        |
|                                         | 4800879       | VALLEJO-TUOLUMNE           | 2.44         | 2          | 1095        |
| <u>NORTH CENTRAL COAST AIR BASIN</u>    |               |                            |              |            |             |
| SANTA CRUZ                              | 4400851       | DAVENPORT                  | 3.24         | 3          | 999         |
| <u>SOUTH CENTRAL COAST AIR BASIN</u>    |               |                            |              |            |             |
| SAN LUIS OBISPO                         | 4000833       | MORRO BAY                  | 1.32         | 1          | 1079        |
|                                         | 4000834       | NIPOMO                     | 2.85         | 3          | 1017        |
|                                         | 4000844       | GROVER CITY-LESAGE DRIVE   | 2.67         | 3          | 1079        |
|                                         | 4000845       | SAN LUIS OBISPO-7020 LEWIS | 2.24         | 2          | 1045        |
|                                         | 4000846       | NIPOMO MESA-950 GUADALUPE  | 12.89        | 13         | 1094        |
|                                         | 4000849       | NIPOMO-1300 GUADALUPE RD   | 10.89        | 10         | 1096        |
|                                         | 4000851       | ARROYO GRANDE-RALCOA       | 9.83         | 10         | 519         |
| SANTA BARBARA                           | 4200363       | GOLETA                     | 1.47         | 1          | 1051        |
|                                         | 4200370       | EL CAPITAN BEACH           | 0.94         | 1          | 1074        |
|                                         | 4200381       | LOMPOC-128 SOUTH H ST      | 2.04         | 2          | 1083        |
|                                         | 4200387       | SANTA MARIA-BROADWAY       | 2.61         | 3          | 1075        |
|                                         | 4200390       | VANDENBERG-STS POWER PLNT  | 0.96         | 1          | 1001        |
|                                         | 4200392       | JALAMA BEACH COUNTY PARK   | 1.27         | 1          | 884         |
|                                         | 4200393       | POINT CONCEPTION           | 1.21         | 1          | 940         |
|                                         | 4200394       | LOMPOC-HS & P              | 0.99         | 1          | 1004        |
|                                         | 4200396       | GAVIOTA-WEST (CHEVRON)     | 1.13         | 1          | 1002        |
|                                         | 4200397       | GAVIOTA-EAST (CHEVRON)     | 1.59         | 1          | 1004        |
|                                         | 4200398       | GAVIOTA TC-SITE A          | 0.72         | 1          | 967         |
|                                         | 4200400       | GAVIOTA TC-SITE C          | 0.80         | 1          | 883         |

TABLE E-4 (continued)

Sulfur Dioxide (1-Hour) Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State 1-Hour Sulfur Dioxide Standard is 25 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                          | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|--------------------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SOUTH CENTRAL COAST AIR BASIN (continued)</u> |               |                            |              |            |             |
| VENTURA                                          | 5600434       | SIMI VALLEY-5400 COCHRAN   | 1.94         | 2          | 1045        |
| <u>SOUTH COAST AIR BASIN</u>                     |               |                            |              |            |             |
| LOS ANGELES                                      | 7000069       | BURBANK                    | 2.11         | 2          | 1093        |
|                                                  | 7000072       | NORTH LONG BEACH           | 5.87         | 6          | 1093        |
|                                                  | 7000080       | WHITTIER                   | 2.94         | 3          | 1094        |
|                                                  | 7000084       | LYNWOOD                    | 3.40         | 3          | 1096        |
|                                                  | 7000087       | LOS ANGELES-N MAIN         | 2.19         | 2          | 1095        |
|                                                  | 7000094       | HAWTHORNE                  | 9.48         | 9          | 1096        |
| ORANGE                                           | 3000177       | LA HABRA                   | 2.37         | 2          | 1091        |
|                                                  | 3000190       | LOS ALAMITOS-ORANGEWOOD    | 2.51         | 3          | 1096        |
|                                                  | 3000195       | COSTA MESA-MESA VERDE DR   | 1.94         | 2          | 1091        |
| RIVERSIDE                                        | 3300144       | RIVERSIDE-RUBIDOUX         | 2.08         | 2          | 1096        |
| SAN BERNARDINO                                   | 3600197       | FONTANA-ARROW HWY          | 2.15         | 2          | 1085        |
| <u>SAN DIEGO AIR BASIN</u>                       |               |                            |              |            |             |
| SAN DIEGO                                        | 8000114       | CHULA VISTA                | 8.30         | 8          | 1092        |
|                                                  | 8000115       | ESCONDIDO-VALLEY PKWY      | 2.85         | 2          | 911         |
|                                                  | 8000123       | SAN DIEGO-OVERLAND         | 3.99         | 4          | 904         |
|                                                  | 8000131       | EL CAJON-REDWOOD AVE       | 2.61         | 3          | 903         |
|                                                  | 8000134       | OCEANSIDE-1701 MISSION AVE | 1.95         | 2          | 905         |
|                                                  | 8000138       | SAN DIEGO-330A 12TH AVE    | 5.86         | 6          | 1090        |
|                                                  | 8000139       | OTAY MESA-1100 PASEO INTL  | 5.91         | 6          | 1095        |
| <u>SACRAMENTO VALLEY AIR BASIN</u>               |               |                            |              |            |             |
| SACRAMENTO                                       | 3400294       | NORTH HIGHLANDS-BLACKFOOT  | 2.20         | 2          | 1035        |
|                                                  | 3400295       | SACRAMENTO-DEL PASO MANOR  | 2.68         | 3          | 897         |
| <u>SAN JOAQUIN VALLEY AIR BASIN</u>              |               |                            |              |            |             |
| FRESNO                                           | 1000246       | FRESNO-3425 FIRST STREET   | 2.22         | 2          | 1080        |
| KERN                                             | 1500203       | BAKERSFIELD-CHESTER ST     | 2.58         | 3          | 1067        |
|                                                  | 1500243       | OILDALE-3311 MANOR         | 1.96         | 2          | 1078        |

TABLE E-4 (continued)

Sulfur Dioxide (1-Hour) Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
 (State 1-Hour Sulfur Dioxide Standard is 25 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>           | <u>SITE #</u> | <u>SITE NAME</u>       | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------|---------------|------------------------|--------------|------------|-------------|
| <u>SOUTHEAST DESERT AIR BASIN</u> |               |                        |              |            |             |
| SAN BERNARDINO                    | 3600188       | TRONA-MARKET ST        | 2.02         | 2          | 679         |
|                                   | 3600191       | TWENTYNINE PALMS-ADOBE | 1.14         | 1          | 521         |
|                                   | 3600201       | HESPERIA-17288 OLIVES  | 1.70         | 2          | 1053        |
|                                   | 3600207       | PHELAN                 | 1.86         | 1          | 1001        |
|                                   | 3600209       | VICTORVILLE-ARMAGOSA   | 2.23         | 2          | 932         |

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\* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-5

Sulfur Dioxide (24-Hour) Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in parts per hundred million (pphm)  
 (State 24-Hour Sulfur Dioxide Standard is 4 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                 | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SAN FRANCISCO BAY AREA AIR BASIN</u> |               |                            |              |            |             |
| CONTRA COSTA                            | 0700430       | PITTSBURG                  | 1.20         | 1          | 1078        |
|                                         | 0700433       | RICHMOND-13TH ST           | 1.12         | 1          | 1076        |
|                                         | 0700434       | MARTINEZ-JONES ST          | 1.04         | 1          | 1064        |
|                                         | 0700437       | CROCKETT-KENDALL AVE       | 1.31         | 1          | 1054        |
|                                         | 0700440       | CONCORD-2975 TREAT BLVD    | 0.87         | 1          | 1075        |
|                                         | 0700441       | RICHMOND-1065 7TH ST       | 1.00         | 1          | 1069        |
|                                         | 0700442       | BETHEL ISLAND RD           | 1.01         | 1          | 1051        |
|                                         | 9000306       | SAN FRANCISCO-10 ARKANSAS  | 1.28         | 1          | 319         |
| SAN FRANCISCO                           | 4800876       | BENICIA                    | 1.05         | 1          | 1084        |
| SOLANO                                  | 4800879       | VALLEJO-TUOLUMNE           | 1.18         | 1          | 1072        |
| <u>SOUTH CENTRAL COAST AIR BASIN</u>    |               |                            |              |            |             |
| SAN LUIS OBISPO                         | 4000833       | MORRO BAY                  | 0.46         | 0          | 1066        |
|                                         | 4000834       | NIPOMO                     | 0.72         | 1          | 995         |
|                                         | 4000844       | GROVER CITY-LESAGE DRIVE   | 0.94         | 0          | 1066        |
|                                         | 4000845       | SAN LUIS OBISPO-7020 LEWIS | 0.79         | 1          | 931         |
|                                         | 4000846       | NIPOMO MESA-950 GUADALUPE  | 1.72         | 2          | 1074        |
|                                         | 4000848       | NIPOMO-1230 EUCALYPTUS RD  | 0.69         | 1          | 140         |
|                                         | 4000849       | NIPOMO-1300 GUADALUPE RD   | 2.06         | 2          | 1083        |
|                                         | 4000851       | ARROYO GRANDE-RALCOA       | 0.65         | 1          | 501         |
| SANTA BARBARA                           | 4200363       | GOLETA                     | 0.35         | 0          | 944         |
|                                         | 4200370       | EL CAPITAN BEACH           | 0.63         | 0          | 958         |
|                                         | 4200381       | LOMPOC-128 SOUTH H ST      | 0.32         | 0          | 1010        |
|                                         | 4200387       | SANTA MARIA-BROADWAY       | 0.94         | 1          | 1042        |
|                                         | 4200390       | VANDENBERG-STS POWER PLNT  | 0.63         | 0          | 901         |
|                                         | 4200392       | JALAMA BEACH COUNTY PARK   | 0.54         | 0          | 787         |
|                                         | 4200393       | POINT CONCEPTION           | 0.60         | 1          | 842         |
|                                         | 4200394       | LOMPOC-HS & P              | 0.62         | 0          | 974         |
|                                         | 4200396       | GAVIOTA-WEST (CHEVRON)     | 0.63         | 1          | 899         |
|                                         | 4200397       | GAVIOTA-EAST (CHEVRON)     | 0.61         | 0          | 912         |
|                                         | 4200398       | GAVIOTA TC-SITE A          | 0.59         | 0          | 920         |
|                                         | 4200400       | GAVIOTA TC-SITE C          | 0.61         | 0          | 857         |
| VENTURA                                 | 5600428       | ANACAPA ISLAND-LIGHTHOUSE  | 0.62         | 1          | 479         |
|                                         | 5600434       | SIMI VALLEY-5400 COCHRAN   | 0.55         | 1          | 1014        |

TABLE E-5 (continued)

Sulfur Dioxide (24-Hour) Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in parts per hundred million (pphm)  
(State 24-Hour Sulfur Dioxide Standard is 4 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>             | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DY*</u> | <u>OBS*</u> |
|-------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SOUTH COAST AIR BASIN</u>        |               |                            |              |            |             |
| LOS ANGELES                         | 7000069       | BURBANK                    | 1.13         | 1          | 1076        |
|                                     | 7000072       | NORTH LONG BEACH           | 1.62         | 2          | 1077        |
|                                     | 7000080       | WHITTIER                   | 1.02         | 1          | 1079        |
|                                     | 7000084       | LYNWOOD                    | 1.45         | 1          | 1086        |
|                                     | 7000087       | LOS ANGELES-N MAIN         | 1.16         | 1          | 1072        |
| ORANGE                              | 7000094       | HAWTHORNE                  | 2.03         | 2          | 1080        |
|                                     | 3000177       | LA HABRA                   | 1.06         | 1          | 1076        |
|                                     | 3000190       | LOS ALAMITOS-ORANGEWOOD    | 1.01         | 1          | 1087        |
|                                     | 3000195       | COSTA MESA-MESA VERDE DR   | 0.97         | 1          | 1080        |
| RIVERSIDE                           | 3300144       | RIVERSIDE-RUBIDOUX         | 0.96         | 1          | 1079        |
| SAN BERNARDINO                      | 3600197       | FONTANA-ARROW HWY          | 0.95         | 1          | 1072        |
| <u>SAN DIEGO AIR BASIN</u>          |               |                            |              |            |             |
| SAN DIEGO                           | 8000114       | CHULA VISTA                | 1.53         | 2          | 1052        |
|                                     | 8000115       | ESCONDIDO-VALLEY PKWY      | 1.70         | 1          | 877         |
|                                     | 8000123       | SAN DIEGO-OVERLAND         | 1.61         | 2          | 857         |
|                                     | 8000131       | EL CAJON-REDWOOD AVE       | 1.19         | 1          | 864         |
|                                     | 8000134       | OCEANSIDE-1701 MISSION AVE | 1.00         | 1          | 838         |
|                                     | 8000138       | SAN DIEGO-330A 12TH AVE    | 1.65         | 2          | 1039        |
|                                     | 8000139       | OTAY MESA-1100 PASEO INTL  | 1.39         | 1          | 1062        |
| <u>SACRAMENTO VALLEY AIR BASIN</u>  |               |                            |              |            |             |
| SACRAMENTO                          | 3400294       | NORTH HIGHLANDS-BLACKFOOT  | 1.41         | 1          | 1002        |
|                                     | 3400295       | SACRAMENTO-DEL PASO MANOR  | 1.63         | 1          | 845         |
| <u>SAN JOAQUIN VALLEY AIR BASIN</u> |               |                            |              |            |             |
| FRESNO                              | 1000246       | FRESNO-3425 FIRST STREET   | 1.77         | 1          | 985         |
| KERN                                | 1500203       | BAKERSFIELD-CHESTER ST     | 1.29         | 1          | 1010        |
|                                     | 1500243       | OILDALE-3311 MANOR         | 1.11         | 1          | 1016        |
| STANISLAUS                          | 5000572       | WESTLEY-TRUCK STOP         | 0.36         | 0          | 118         |

TABLE E-5 (continued)

Sulfur Dioxide (24-Hour) Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in parts per hundred million (pphm)  
(State 24-Hour Sulfur Dioxide Standard is 4 pphm, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>           | <u>SITE #</u> | <u>SITE NAME</u>        | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------|---------------|-------------------------|--------------|------------|-------------|
| <u>SOUTHEAST DESERT AIR BASIN</u> |               |                         |              |            |             |
| SAN BERNARDINO                    | 3600155       | BARSTOW                 | 0.84         | 1          | 60          |
|                                   | 3600188       | TRONA-MARKET ST         | 1.74         | 1          | 594         |
|                                   | 3600190       | VICTORVILLE-FAIRGROUNDS | 1.39         | 1          | 65          |
|                                   | 3600191       | TWENTYNINE PALMS-ADOBE  | 0.54         | 1          | 503         |
|                                   | 3600201       | HESPERIA-17288 OLIVES   | 1.74         | 1          | 1007        |
|                                   | 3600207       | PHELAN                  | 1.50         | 1          | 953         |
|                                   | 3600209       | VICTORVILLE-ARMAGOSA    | 1.71         | 1          | 874         |
|                                   | 3600210       | TRONA-ATHOL             | 1.44         | 1          | 267         |

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\* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-6

PM10 Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)  
 (State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                 | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>NORTH COAST AIR BASIN</u>            |               |                           |              |            |             |
| HUMBOLDT                                | 1200503       | EUREKA-H.D. 6TH AND I ST  | 85.42        | 79         | 171         |
| MENDOCINO                               | 2300753       | WILLITS-FIREHOUSE         | 69.06        | 61         | 177         |
|                                         | 2300764       | UKIAH-COUNTY LIBRARY      | 59.65        | 55         | 172         |
| SONOMA                                  | 4900886       | CLOVERDALE                | 82.05        | 78         | 188         |
|                                         | 4900895       | GUERNEVILLE-CHURCH & 1ST  | 70.33        | 62         | 174         |
|                                         | 4900898       | HEALDSBURG-133 MATHESON   | 65.58        | 63         | 186         |
| <u>SAN FRANCISCO BAY AREA AIR BASIN</u> |               |                           |              |            |             |
| ALAMEDA                                 | 6000336       | FREMONT-CHAPEL WAY        | 107.42       | 92         | 181         |
|                                         | 6000340       | LIVERMORE OLD FIRST ST    | 130.72       | 99         | 182         |
|                                         | 6000343       | SAN LEANDRO-CO HOSPITAL   | 85.04        | 72         | 182         |
| CONTRA COSTA                            | 0700433       | RICHMOND-13TH ST          | 94.77        | 82         | 181         |
|                                         | 0700440       | CONCORD-2975 TREAT BLVD   | 99.28        | 90         | 180         |
|                                         | 0700442       | BETHEL ISLAND RD          | 118.80       | 118        | 182         |
| MARIN                                   | 2100451       | SAN RAFAEL                | 96.23        | 85         | 182         |
| NAPA                                    | 2800783       | NAPA-JEFFERSON ST         | 101.42       | 100        | 182         |
| SAN FRANCISCO                           | 9000306       | SAN FRANCISCO-10 ARKANSAS | 97.63        | 82         | 182         |
| SAN MATEO                               | 4100541       | REDWOOD CITY              | 94.94        | 90         | 182         |
| SANTA CLARA                             | 4300377       | SAN JOSE-MOORPARK         | 128.31       | 120        | 182         |
|                                         | 4300382       | SAN JOSE-4TH ST           | 135.83       | 128        | 331         |
|                                         | 4300390       | SAN JOSE-W SAN CARLOS ST  | 133.62       | 112        | 182         |
|                                         | 4300391       | SAN JOSE-528 TULLY ROAD   | 133.55       | 111        | 182         |
| <u>NORTH CENTRAL COAST AIR BASIN</u>    |               |                           |              |            |             |
| MONTEREY                                | 2700544       | SALINAS-II                | 67.40        | 55         | 171         |
|                                         | 2700550       | CARMEL VALLEY-35 FORD RD  | 45.30        | 37         | 98          |
|                                         | 2700551       | KING CITY-750 METZ ROAD   | 59.61        | 58         | 317         |
|                                         | 2700552       | MONTEREY-SILVER CLOUD CT  | 32.55        | 29         | 101         |
| SAN BENITO                              | 3500823       | HOLLISTER-1979 FAIRVIEW   | 64.62        | 61         | 175         |
| SANTA CRUZ                              | 4400850       | SANTA CRUZ-966 BOSTWICK   | 56.75        | 49         | 173         |
|                                         | 4400851       | DAVENPORT                 | 116.16       | 102        | 46          |
|                                         | 4400852       | WATSONVILLE-444 AIRPORT   | 67.96        | 60         | 83          |
|                                         | 4400853       | SCOTTS VALLEY-VINE HILL   | 55.69        | 39         | 22          |

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)  
 (State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>              | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|--------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SOUTH CENTRAL COAST AIR BASIN</u> |               |                            |              |            |             |
| SAN LUIS OBISPO                      | 4000833       | MORRO BAY                  | 63.02        | 63         | 175         |
|                                      | 4000834       | NIPOMO                     | 56.25        | 50         | 177         |
|                                      | 4000835       | SAN LUIS OBISPO-MARSH      | 52.70        | 52         | 175         |
|                                      | 4000847       | ATASCADERO-LEWIS AVENUE    | 83.07        | 78         | 166         |
|                                      | 4000848       | NIPOMO-1230 EUCALYPTUS RD  | 146.89       | 119        | 42          |
|                                      | 4000849       | NIPOMO-1300 GUADALUPE RD   | 132.89       | 124        | 303         |
|                                      | 4000850       | PASO ROBLES-235 SANTA FE   | 72.78        | 67         | 106         |
|                                      | 4000851       | ARROYO GRANDE-RALCOA       | 166.21       | 141        | 99          |
| SANTA BARBARA                        | 4200356       | SANTA MARIA-LIBRARY        | 67.06        | 59         | 157         |
|                                      | 4200370       | EL CAPITAN BEACH           | 58.82        | 52         | 175         |
|                                      | 4200381       | LOMPOC-128 SOUTH H ST      | 52.23        | 44         | 52          |
|                                      | 4200388       | SANTA BARBARA-3 W CARILLO  | 77.63        | 67         | 173         |
| VENTURA                              | 5600419       | EL RIO-RIO MESA SCHOOL     | 72.79        | 59         | 70          |
|                                      | 5600421       | VENTURA-MAIN ST            | 77.44        | 73         | 176         |
|                                      | 5600427       | PIRU-2SW                   | 93.38        | 79         | 179         |
|                                      | 5600430       | OJAI-1768 MARICOPA HWY     | 64.29        | 62         | 178         |
|                                      | 5600434       | SIMI VALLEY-5400 COCHRAN   | 91.72        | 91         | 360         |
|                                      | 5600435       | THOUSAND OAKS-MOORPARK RD  | 76.04        | 67         | 87          |
|                                      | 5600436       | EL RIO-RIO MESA SCHOOL #2  | 67.54        | 63         | 106         |
| <u>SOUTH COAST AIR BASIN</u>         |               |                            |              |            |             |
| LOS ANGELES                          | 7000060       | AZUSA                      | 140.01       | 137        | 177         |
|                                      | 7000069       | BURBANK                    | 176.44       | 176        | 176         |
|                                      | 7000072       | NORTH LONG BEACH           | 96.39        | 92         | 157         |
|                                      | 7000087       | LOS ANGELES-N MAIN         | 147.55       | 137        | 179         |
|                                      | 7000089       | SANTA CLARITA-SAN FERNANDO | 90.03        | 84         | 172         |
|                                      | 7000094       | HAWTHORNE                  | 94.53        | 91         | 175         |
|                                      | 3000176       | ANAHEIM                    | 133.56       | 116        | 176         |
| ORANGE                               | 3000186       | EL TORO                    | 107.62       | 94         | 178         |
|                                      | 3000196       | NEWPORT BEACH-2300 UNIV    | 95.44        | 89         | 90          |
| RIVERSIDE                            | 3300144       | RIVERSIDE-RUBIDOUX         | 213.99       | 179        | 183         |
|                                      | 3300149       | PERRIS                     | 141.23       | 131        | 178         |
|                                      | 3300155       | NORCO-NORCONIAN            | 177.97       | 164        | 61          |
|                                      | 3300160       | TEMECULA-30250 RANCHO CA   | 87.62        | 88         | 147         |
| SAN BERNARDINO                       | 3600171       | ONTARIO AIRPORT            | 257.38       | 158        | 177         |
|                                      | 3600181       | LAKE GREGORY               | 108.20       | 105        | 124         |
|                                      | 3600197       | FONTANA-ARROW HWY          | 143.87       | 143        | 167         |

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)  
(State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                  | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|------------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SOUTH COAST AIR BASIN (continued)</u> |               |                            |              |            |             |
| SAN BERNARDINO<br>(cont'd)               | 3600203       | SAN BERNARDINO-FOURTH ST   | 164.79       | 163        | 179         |
|                                          | 3600204       | REDLANDS-DEARBORN          | 125.33       | 109        | 54          |
| <u>SAN DIEGO AIR BASIN</u>               |               |                            |              |            |             |
| SAN DIEGO                                | 8000114       | CHULA VISTA                | 76.38        | 73         | 180         |
|                                          | 8000115       | ESCONDIDO-VALLEY PKWY      | 115.80       | 96         | 30          |
|                                          | 8000123       | SAN DIEGO-OVERLAND         | 140.55       | 79         | 16          |
|                                          | 8000131       | EL CAJON-REDWOOD AVE       | 84.77        | 80         | 177         |
|                                          | 8000134       | OCEANSIDE-1701 MISSION AVE | 87.60        | 81         | 353         |
|                                          | 8000138       | SAN DIEGO-330A 12TH AVE    | 95.83        | 73         | 30          |
|                                          | 8000139       | OTAY MESA-1100 PASEO INTL  | 167.26       | 127        | 31          |
| <u>NORTHEAST PLATEAU AIR BASIN</u>       |               |                            |              |            |             |
| MODOC                                    | 2500764       | ALTURAS-600 S MAIN ST      | 117.08       | 101        | 42          |
|                                          | 2500765       | ALTURAS-202 W FOURTH ST    | 99.48        | 83         | 39          |
| SISKIYOU                                 | 4700861       | YREKA                      | 76.56        | 74         | 160         |
| <u>SACRAMENTO VALLEY AIR BASIN</u>       |               |                            |              |            |             |
| BUTTE                                    | 0400628       | CHICO-MANZANITA            | 97.93        | 83         | 113         |
|                                          | 0400633       | CHICO-SALEM ST             | 112.19       | 95         | 102         |
| COLUSA                                   | 0600646       | COLUSA-100 SUNRISE BLVD    | 109.71       | 102        | 196         |
| GLENN                                    | 1100673       | WILLOWS-VILLA AVE          | 94.43        | 81         | 217         |
| PLACER                                   | 3100810       | ROCKLIN-SIERRA COLLEGE     | 80.01        | 68         | 24          |
|                                          | 3100813       | AUBURN-DEWITT-C AVE        | 54.46        | 51         | 136         |
|                                          | 3100816       | LINCOLN                    | 90.50        | 82         | 117         |
|                                          | 3100820       | ROCKLIN-5000 ROCKLIN RD    | 55.76        | 55         | 116         |
|                                          | 3100822       | ROSEVILLE-151 N SUNRISE    | 54.67        | 52         | 69          |
| SACRAMENTO                               | 3400277       | SACTO-H.D. STOCKTON BLVD   | 104.31       | 98         | 176         |
|                                          | 3400283       | SACTO-BRANCH CENTER RD     | 101.15       | 95         | 156         |
|                                          | 3400293       | CITRUS HTS-SUNRISE BLVD    | 103.48       | 98         | 134         |
|                                          | 3400294       | NORTH HIGHLANDS-BLACKFOOT  | 93.95        | 79         | 139         |
|                                          | 3400295       | SACRAMENTO-DEL PASO MANOR  | 124.43       | 118        | 233         |
|                                          | 3400305       | SACRAMENTO-1309 T STREET   | 130.18       | 130        | 237         |
|                                          | 3400307       | SACRAMENTO-EARHART DRIVE   | 95.75        | 76         | 121         |

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)  
 (State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>                        | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|------------------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>SACRAMENTO VALLEY AIR BASIN (continued)</u> |               |                           |              |            |             |
| SHASTA                                         | 4500555       | REDDING-H.D. ROOF         | 82.87        | 83         | 172         |
|                                                | 4500556       | BURNEY                    | 103.34       | 91         | 109         |
|                                                | 4500567       | ANDERSON-2220 NORTH ST    | 90.65        | 72         | 29          |
| SOLANO                                         | 4800881       | VACAVILLE-MERCHANT        | 109.92       | 98         | 159         |
| SUTTER                                         | 5100898       | YUBA CITY-ALMOND STREET   | 101.99       | 95         | 212         |
| TEHAMA                                         | 5200901       | RED BLUFF                 | 85.00        | 85         | 181         |
| YOLO                                           | 5700569       | WOODLAND-W MAIN ST        | 153.90       | 102        | 26          |
|                                                | 5700570       | WEST SACRAMENTO-15TH ST   | 129.14       | 121        | 161         |
|                                                | 5700579       | WOODLAND-40 SUTTER STREET | 113.20       | 103        | 98          |
| <u>SAN JOAQUIN VALLEY AIR BASIN</u>            |               |                           |              |            |             |
| FRESNO                                         | 1000229       | FIVE POINTS               | 198.40       | 190        | 97          |
|                                                | 1000244       | FRESNO-4706 E DRUMMOND    | 158.55       | 152        | 169         |
|                                                | 1000246       | FRESNO-3425 FIRST STREET  | 161.34       | 147        | 174         |
|                                                | 1000248       | CLOVIS-908 N VILLA AVENUE | 126.50       | 123        | 158         |
| KERN                                           | 1500203       | BAKERSFIELD-CHESTER ST    | 205.17       | 186        | 349         |
|                                                | 1500205       | KERN REFUGE               | 134.42       | 119        | 142         |
|                                                | 1500243       | OILDALE-3311 MANOR        | 195.14       | 189        | 180         |
|                                                | 1500250       | TAFT COLLEGE              | 158.87       | 128        | 328         |
|                                                | 1500251       | BAKERSFIELD-CALIFORNIA ST | 158.42       | 93         | 44          |
| KINGS                                          | 1600701       | HANFORD                   | 193.15       | 164        | 151         |
|                                                | 1600714       | KETTLEMEN CITY-CAL TRANS  | 219.19       | 166        | 174         |
|                                                | 1600715       | CORCORAN-VAN DORSTEN AVE  | 263.08       | 239        | 336         |
| MADERA                                         | 2000002       | MADERA-LIBRARY            | 142.69       | 128        | 174         |
| MERCED                                         | 2400521       | MERCED                    | 150.69       | 145        | 176         |
|                                                | 2400522       | LOS BANOS                 | 131.61       | 114        | 172         |
| SAN JOAQUIN                                    | 3900252       | STOCKTON-HAZELTON ST      | 163.95       | 145        | 164         |
|                                                | 5000567       | MODESTO-1100 I STREET     | 175.08       | 157        | 183         |
|                                                | 5000571       | CROWS LANDING-DAVIS RD    | 105.86       | 74         | 20          |
|                                                | 5000572       | WESTLEY-TRUCK STOP        | 138.91       | 99         | 20          |
| STANISLAUS                                     | 5000573       | TURLOCK-900 S MINARET     | 192.97       | 150        | 46          |
|                                                | 5400568       | VISALIA-CHURCH STREET     | 158.02       | 135        | 322         |
|                                                | 5400579       | PORTERVILLE-COURTHOUSE    | 167.94       | 129        | 29          |
| TULARE                                         |               |                           |              |            |             |

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)  
 (State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>              | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|--------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>GREAT BASIN VALLEYS AIR BASIN</u> |               |                           |              |            |             |
| INYO                                 | 1400696       | COSO JUNCTION             | 165.39       | 93         | 141         |
|                                      | 1400697       | KEELER                    | 411.82       | 350        | 157         |
|                                      | 1400699       | LONE PINE-501 E LOCUST    | 71.56        | 64         | 172         |
|                                      | 1400700       | INDEPENDANCE-1 NNE PUMP#7 | 65.49        | 58         | 29          |
|                                      | 1400710       | OLANCHA-POST OFFICE       | 221.33       | 181        | 109         |
|                                      | 1400717       | BISHOP-156 N MAIN ST      | 121.46       | 84         | 26          |
|                                      | 1400718       | COSO JCT-10 MI EAST       | 62.82        | 60         | 93          |
|                                      | 1400725       | OLANCHA-661 FALL ROAD     | 483.66       | 346        | 23          |
|                                      | 1400726       | BISHOP-351 N MAIN STREET  | 104.44       | 71         | 46          |
|                                      | 1400727       | PEARSONVILLE-PEARSON ROAD | 257.31       | 131        | 12          |
| MONO                                 | 2600779       | LEE VINING-SMS            | 41.84        | 41         | 151         |
|                                      | 2600782       | MONO LAKE-SIMUS RESIDENCE | 562.53       | 493        | 214         |
|                                      | 2600785       | MAMMOTH LAKES-GATEWAY HC  | 197.79       | 178        | 167         |
|                                      | 2600788       | BODIE-11 MILES SE         | 40.29        | 26         | 20          |
|                                      | 2600789       | MONO LAKE-WARM SPRINGS RD | 598.79       | 362        | 21          |
| <u>SOUTHEAST DESERT AIR BASIN</u>    |               |                           |              |            |             |
| IMPERIAL                             | 1300693       | BRAWLEY-401 MAIN ST       | 193.78       | 175        | 175         |
|                                      | 1300694       | EL CENTRO-150 9TH ST      | 173.13       | 166        | 161         |
| KERN                                 | 1500211       | CHINA LAKE                | 345.61       | 166        | 121         |
|                                      | 1500249       | MOJAVE-AIRPORT            | 77.78        | 65         | 149         |
|                                      | 1500253       | RIDGECREST-LAS FLORES     | 63.18        | 35         | 12          |
|                                      | 1500254       | INYOKERN AIRPORT          | 144.28       | 64         | 12          |
| LOS ANGELES                          | 7000096       | LANCASTER-W PONDERA ST    | 295.47       | 215        | 175         |
| RIVERSIDE                            | 3300137       | PALM SPRINGS-FIRE STN     | 148.68       | 124        | 176         |
|                                      | 3300150       | BANNING-ALLESANDRO        | 96.75        | 89         | 160         |
|                                      | 3300157       | INDIO-JACKSON             | 213.81       | 189        | 179         |
|                                      | 3300161       | BLYTHE-449 W MURPHY ST    | 212.20       | 112        | 51          |
| SAN BERNARDINO                       | 3600155       | BARSTOW                   | 105.45       | 85         | 179         |
|                                      | 3600188       | TRONA-MARKET ST           | 132.28       | 114        | 166         |
|                                      | 3600191       | TWENTYNINE PALMS-ADOBE    | 180.68       | 139        | 158         |
|                                      | 3600201       | HESPERIA-17288 OLIVES     | 78.37        | 73         | 122         |
|                                      | 3600208       | LUCERNE VALLEY-MIDDLE SCH | 197.03       | 117        | 157         |
|                                      | 3600209       | VICTORVILLE-ARMAGOSA      | 91.46        | 88         | 151         |
|                                      | 3600210       | TRONA-ATHOL               | 62.97        | 56         | 57          |

TABLE E-6 (continued)

PM10 Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)  
(State 24-Hour PM10 Standard is 50 ug/m3, not to be exceeded)

| <u>AIR BASIN/COUNTY</u>            | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>MOUNTAIN COUNTIES AIR BASIN</u> |               |                           |              |            |             |
| EL DORADO                          | 0900690       | PLACERVILLE-GOLD NUGGET   | 77.01        | 62         | 99          |
| MARIPOSA                           | 2200742       | YOSEMITE VILLAGE          | 215.90       | 210        | 166         |
| NEVADA                             | 2900794       | TRUCKEE-FIRE STATION      | 146.28       | 145        | 110         |
|                                    | 2900796       | GRASS VALLEY-HENDERSON    | 53.17        | 52         | 159         |
|                                    | 2900797       | NEVADA CITY-WILLOW VALLEY | 44.74        | 41         | 55          |
|                                    | 2900798       | GRASS VALLEY-16607 ANNIE  | 51.51        | 44         | 100         |
|                                    | 2900799       | GLENSHIRE-FIRE STATION    | 142.30       | 119        | 89          |
| PLACER                             | 3100818       | COLFAX-CITY HALL          | 59.62        | 58         | 137         |
| PLUMAS                             | 3200821       | QUINCY-267 N CHURCH ST    | 170.38       | 162        | 165         |
|                                    | 3200822       | GRAEAGLE                  | 52.59        | 42         | 181         |
|                                    | 3200823       | CHESTER-222 FIRST AVE     | 134.19       | 82         | 15          |
| SIERRA                             | 4600854       | LOYALTON-309 W 3RD STREET | 89.59        | 85         | 165         |
| <u>LAKE COUNTY AIR BASIN</u>       |               |                           |              |            |             |
| LAKE                               | 1700713       | LAKEPORT-LAKEPORT BLVD    | 32.48        | 31         | 177         |
| <u>LAKE TAHOE AIR BASIN</u>        |               |                           |              |            |             |
| EL DORADO                          | 0900684       | LK TAHOE-3377 TAHOE BVD   | 101.49       | 85         | 108         |
|                                    | 0900691       | S LAKE TAHOE-3337 SANDY   | 107.47       | 92         | 53          |

\* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-7

Sulfates Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)  
(State Sulfates Standard is 25 ug/m3, not to be equalled or exceeded)

| <u>AIR BASIN/COUNTY</u>                 | <u>SITE #</u> | <u>SITE NAME</u>          | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-----------------------------------------|---------------|---------------------------|--------------|------------|-------------|
| <u>SAN FRANCISCO BAY AREA AIR BASIN</u> |               |                           |              |            |             |
| ALAMEDA                                 | 6000336       | FREMONT-CHAPEL WAY        | 9.09         | 8.6        | 362         |
|                                         | 6000340       | LIVERMORE OLD FIRST ST    | 7.78         | 7.1        | 174         |
| CONTRA COSTA                            | 0700430       | PITTSBURG                 | 14.15        | 13.8       | 364         |
|                                         | 0700433       | RICHMOND-13TH ST          | 14.01        | 13.0       | 182         |
|                                         | 0700440       | CONCORD-2975 TREAT BLVD   | 11.25        | 10.3       | 182         |
|                                         | 0700442       | BETHEL ISLAND RD          | 11.10        | 10.1       | 182         |
| MARIN                                   | 2100451       | SAN RAFAEL                | 14.22        | 13.5       | 179         |
| NAPA                                    | 2800783       | NAPA-JEFFERSON ST         | 9.33         | 9.3        | 182         |
| SAN FRANCISCO                           | 9000306       | SAN FRANCISCO-10 ARKANSAS | 12.76        | 12.8       | 188         |
| SAN MATEO                               | 4100541       | REDWOOD CITY              | 9.73         | 9.2        | 182         |
| SANTA CLARA                             | 4300377       | SAN JOSE-MOORPARK         | 8.86         | 8.3        | 182         |
|                                         | 4300382       | SAN JOSE-4TH ST           | 10.12        | 9.4        | 184         |
|                                         | 4300390       | SAN JOSE-W SAN CARLOS ST  | 10.18        | 8.7        | 182         |
| SOLANO                                  | 4800879       | VALLEJO-TUOLUMNE          | 9.82         | 9.6        | 181         |
| SONOMA                                  | 4900893       | SANTA ROSA-837 FIFTH ST   | 8.77         | 7.1        | 182         |
| <u>SOUTH COAST AIR BASIN</u>            |               |                           |              |            |             |
| LOS ANGELES                             | 7000060       | AZUSA                     | 21.78        | 19.2       | 179         |
|                                         | 7000069       | BURBANK                   | 20.86        | 20.1       | 174         |
|                                         | 7000072       | NORTH LONG BEACH          | 21.33        | 19.9       | 181         |
|                                         | 7000084       | LYNWOOD                   | 24.79        | 22.4       | 180         |
|                                         | 7000085       | PICO RIVERA               | 21.16        | 18.3       | 175         |
|                                         | 7000087       | LOS ANGELES-N MAIN        | 25.45        | 23.1       | 178         |
|                                         | 7000088       | PASADENA-WILSON           | 20.62        | 20.1       | 177         |
|                                         | 7000091       | WEST LOS ANGELES-VA HOSP  | 21.10        | 20.9       | 174         |
|                                         | 7000094       | HAWTHORNE                 | 26.37        | 24.7       | 179         |
| ORANGE                                  | 3000176       | ANAHEIM                   | 18.55        | 16.0       | 182         |
|                                         | 3000190       | LOS ALAMITOS-ORANGEWOOD   | 18.83        | 16.9       | 179         |
| RIVERSIDE                               | 3300144       | RIVERSIDE-RUBIDOUX        | 16.23        | 14.8       | 177         |
|                                         | 3300146       | RIVERSIDE-MAGNOLIA        | 14.30        | 12.8       | 182         |
| SAN BERNARDINO                          | 3600175       | UPLAND ARB                | 18.33        | 17.1       | 182         |
|                                         | 3600197       | FONTANA-ARROW HWY         | 18.76        | 16.7       | 177         |
|                                         | 3600203       | SAN BERNARDINO-FOURTH ST  | 18.74        | 18.3       | 180         |

TABLE E-7 (continued)

Sulfates Expected Peak Day Concentrations  
and Designation Values for 1991-1993

24-Hour Average Concentrations in micrograms per cubic meter (ug/m3)  
 (State Sulfates Standard is 25 ug/m3, not to be equalled or exceeded)

| <u>AIR BASIN/COUNTY</u>             | <u>SITE #</u> | <u>SITE NAME</u>         | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|-------------------------------------|---------------|--------------------------|--------------|------------|-------------|
| <u>SAN DIEGO AIR BASIN</u>          |               |                          |              |            |             |
| SAN DIEGO                           | 8000131       | EL CAJON-REDWOOD AVE     | 14.09        | 13.0       | 162         |
|                                     | 8000138       | SAN DIEGO-330A 12TH AVE  | 17.26        | 14.0       | 81          |
| <u>SACRAMENTO VALLEY AIR BASIN</u>  |               |                          |              |            |             |
| SACRAMENTO                          | 3400277       | SACTO-H.D. STOCKTON BLVD | 7.97         | 7.5        | 81          |
| <u>SAN JOAQUIN VALLEY AIR BASIN</u> |               |                          |              |            |             |
| KERN                                | 1500203       | BKRSFLD-CHESTER ST       | 11.01        | 10.0       | 213         |
|                                     | 1500243       | OILDALE-3311 MANOR       | 9.99         | 10.0       | 115         |
|                                     | 1500250       | TAFT COLLEGE             | 9.60         | 9.0        | 89          |
| <u>SOUTHEAST DESERT AIR BASIN</u>   |               |                          |              |            |             |
| SAN BERNARDINO                      | 3600188       | TRONA-MARKET ST          | 32.90        | 32.5       | 139         |

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\* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

TABLE E-8

Hydrogen Sulfide Expected Peak Day Concentrations  
and Designation Values for 1991-1993

1-Hour Average Concentrations in parts per hundred million (pphm)  
(State Hydrogen Sulfide Standard is 3 pphm, not to be equalled or exceeded)

| <u>AIR BASIN/COUNTY</u>              | <u>SITE #</u> | <u>SITE NAME</u>           | <u>EPDC*</u> | <u>DV*</u> | <u>OBS*</u> |
|--------------------------------------|---------------|----------------------------|--------------|------------|-------------|
| <u>SOUTH CENTRAL COAST AIR BASIN</u> |               |                            |              |            |             |
| SAN LUIS OBISPO                      | 4000845       | SAN LUIS OBISPO-7020 LEWIS | 0.13         | 0          | 1006        |
| SANTA BARBARA                        | 4200370       | EL CAPITAN BEACH           | 0.95         | 1          | 723         |
|                                      | 4200401       | SANTA BARBARA-UC W CAMPUS  | 0.79         | 1          | 987         |
| <u>SOUTHEAST DESERT AIR BASIN</u>    |               |                            |              |            |             |
| SAN BERNARDINO                       | 3600188       | TRONA-MARKET ST            | 29.80        | 28         | 967         |
| <u>LAKE COUNTY AIR BASIN</u>         |               |                            |              |            |             |
| LAKE                                 | 1700720       | ANDERSON SPRINGS           | 2.30         | 1          | 1096        |
|                                      | 1700725       | HOBERGS-1 MILE NW          | 1.46         | 2          | 1093        |
|                                      | 1700728       | GLENBROOK-HIGH VALLEY RD   | 1.45         | 1          | 1091        |

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\* EPDC = Expected Peak Day Concentration.

DV = Designation Value. The DV is the highest measured concentration that is equal to or less than the EPDC, after the EPDC is rounded to the precision of the relevant State ambient air quality standard.

OBS = Number of Observations (days with data) in the 1991-1993 period.

**ATTACHMENT F**

**SUPPORTING DOCUMENTS**





South Coast  
AIR QUALITY MANAGEMENT DISTRICT

21865 E. Copley Drive, Diamond Bar, CA 91765-4182 (909) 396-2000

May 26, 1993

Mr. Ron Rothacker  
California Air Resources Board  
2020 L Street  
Sacramento, California 95814

Dear Mr. Rothacker:

This is a follow-up to our telephone conversation on May 19, 1993 regarding ambient lead levels at one of our monitoring stations located adjacent to Quenell Enterprises, Inc., Daelco Division, a lead oxide manufacturer in the City of Commerce. During our conversation, you indicated that you were concerned about the elevated monthly average lead levels for March 1993, measured at  $1.83 \text{ ug/m}^3$ , and that you were considering the possibility of designating the Los Angeles basin as nonattainment for lead, based on this one reading.

In response to your inquiry, and as indicated to you during our telephone conversation, I would like to provide you with some information and reasons why such consideration for redesignation of the Los Angeles basin to nonattainment is inappropriate. As you know, the ambient lead standard is  $1.5 \text{ ug/m}^3$  averaged monthly for the state standard and averaged quarterly for the federal standard. The average monthly lead reading at the L.A. Paper Box Monitoring Station located adjacent to the Daelco facility was  $1.83 \text{ ug/m}^3$  for March 1993. The average quarterly reading for the first quarter of 1993 at this site was  $1.38 \text{ ug/m}^3$ , and for April 1993 was  $1.11 \text{ ug/m}^3$ . Attached is a summary of readings from January through April 1993.

The District is aware of the toxic nature of lead compounds and is committed to protecting the public from unhealthful levels of exposure to such hazardous compounds. However, we are extremely concerned about the ARB's possible use of the March lead reading from this monitoring site as the sole basis to consider designating our basin as nonattainment lead for the following reasons:

1. District personnel have inspected Daelco's facility three times since March 1993 to determine the cause of the higher lead readings in March. Our inspections revealed that, since early-1992 Daelco has initiated a number of modifications to their equipment to minimize or eliminate potential lead emissions from several sources within their facility. These modifications include:
  - a) Installation of HEPA filters on all baghouse exhausts to reduce particulate and lead emissions by greater than 90 percent.
  - b) Redesign of lids and seals on the reactor pots.

c) Application of a computer controlled process to minimize the potential for fugitive and upset emissions from the Barton Oxide Manufacturing System.

In addition, Daelco has initiated the following activities:

a) Construction to replace the chain-link fence with a ten foot block wall,

b) Removal of several furnaces and blenders, and shut down of two of the four product lines with drum or bag loading operations and reduction of operation in a third line,

c) Construction of enclosures for the truck-loading operation and three of the four baghouses,

d) Application of computer controlled process to the remaining systems.

Work on a number of the above modifications began in February of this year. All of the above modifications and constructions are expected to be completed by October of this year.

The elevated ambient lead readings during March 1993 were probably due to the construction and modification activities that are on-going at the plant for the purpose of reducing the overall lead emissions from this facility. Nevertheless, the District has already put Daelco on notice that they must take all necessary measures to ensure that their lead emissions are minimized in order to prevent any further exceedances. In addition we have started evaluation of the possible health effects associated with such ambient lead levels in cooperation with the Los Angeles County Health Services. For your information, I have attached copies of letters from Daelco explaining their remodernization activities and the subsequent District letters to Daelco and the Los Angeles County Health Services dated April 29 and May 17, 1993, respectively.

2. In September 1992, the South Coast Air Quality Management District adopted Rule 1420 - Emissions Standard for Lead. We are the only district that has adopted such a stringent rule for the control of lead emissions. Rule 1420 requires facilities that process more than two tons of lead annually to submit a compliance plan by July 1, 1993. Based on the approved compliance plan facilities would have to implement various measures to reduce and control their sources of lead emissions. Rule 1420 was adopted, in part, to address similar concerns regarding potential localized lead emissions from lead processing facilities. The majority of modifications underway at Daelco are an attempt to comply with the requirements of Rule 1420.

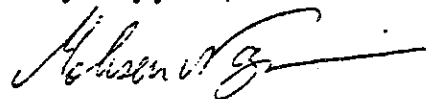
3. The monitoring station adjacent to Daelco is located in a vacant lot and is within 200 feet of the fence line and facility's operations and construction activities. This monitor is installed and operated as part of a lead characterization study funded by an EPA grant to collect lead data directly downwind from lead processing facilities. Although this monitor is installed in accordance with the EPA criteria, it was not intended for use to determine attainment status of the basin. Because of the elevated lead concentrations measured at this site, the District has increased the frequency of monitoring from once in six days to once in three days. Also we have established upwind monitors in close-by residential area and at the nearby Bell Gardens High School. As such, the readings from these two additional monitors had readings of  $0.05 \text{ ug/m}^3$  and  $0.04 \text{ ug/m}^3$  for the month of March 1993. We believe that these two additional monitors provide a more representative picture of the ambient lead concentrations in that general area.

In conclusion, the District shares your concerns about the hazards associated with exposure to lead and will take every measure necessary to minimize the public's exposure to unhealthful levels of lead emissions. We also recognize that the general criteria used by ARB for nonattainment designation is based on one exceedance of the state standard in any three years. However, it is also our understanding that the same regulatory criteria allows for exceedances due to "highly irregular and infrequent exceedances" or "exceptional events" (Section 70303(b), Title 17, CCR). The construction and modification at Daelco could be classified as an exceptional event. Further, due to the District's adoption of Rule 1420, all lead processing facilities in our basin, including Daelco, are, or will be, undergoing modifications which will result in significant reductions in lead emissions in our basin. Finally, the ambient lead concentrations detected at such "Micro-Scale" monitoring sites should not be used as the primary basis for designating the Los Angeles basin nonattainment, due to the extreme localized influence on such readings.

Therefore, due to the above reasons, we believe that it is inappropriate to consider redesignation of the Los Angeles basin as nonattainment for lead solely due to the readings obtained at this monitoring station.

Please call me at (909) 396-2662 if you have any questions or need any additional information.

Very truly yours,



Mohsen Nazemi  
Senior Manager  
Air Toxics  
Stationary Source Compliance

MN:SCS(MN2/ROTHACKR)  
Attachments

cc: Dr. James M. Lents  
Pat Leyden  
Diana Love  
Chung Liu  
James Boyd, ARB  
Lisa Finley, EPA





