

CEQA
AIR QUALITY
GUIDELINES

MONTEREY BAY UNIFIED
AIR POLLUTION CONTROL DISTRICT -2008

CEQA AIR QUALITY GUIDELINES

Prepared by

Monterey Bay Unified Air Pollution Control District

Adopted October 1995

**Revised: February 1997, August 1998, December 1999, September 2000,
September 2002, June 2004 and February 2008**

MBUAPCD BOARD OF DIRECTORS

Reb Monaco, Chair	San Benito County
Simon Salinas, Vice Chair	Monterey County
Fernando Armenta	Monterey County
Lou Calcagno	Monterey County
Tony Campos	Santa Cruz County
Dennis Donohue.....	City of Salinas
Doug Emerson.....	San Benito County Cities
Ila Mettee-McCutchon	Monterey Peninsula Cities
Ellen Pirie	Santa Cruz County
Sam Storey	Santa Cruz County Cities
George Worthy.....	South Monterey County Cities
Steve Bloomer, Alternate	Cities
Anthony Botelho, Alternate	San Benito County
Dave Potter, Alternate	Monterey County
Eugenia Sanchez, Alternate.....	San Benito County Cities
Steve Villegas, Alternate.....	City of Salinas

Douglas Quetin, Air Pollution Control Officer

Staff Contributions

The following individuals contributed to the revisions of the CEQA Air Quality Guidelines:

Jean Getchell, Supervising Air Quality Planner
Robert Nunes, Air Quality Planner
David Fairchild, Air Quality Planner
David Craft, Air Quality Engineer

This page is intentionally blank.

TABLE OF CONTENTS

	<u>Page</u>
PREFACE	i
1.0 INTRODUCTION	
1.1 Purpose of CEQA	1-1
1.2 Purpose of the Guidelines	1-1
1.3 District's Role in CEQA	1-2
1.4 How to Use the Guidelines	1-3
1.5 Relationship to NEPA	1-3
1.6 Organization of the Guidelines	1-4
2.0 AIR QUALITY REGULATION	
2.1 Overview	2-1
2.2 Federal Air Quality Regulation	2-1
2.3 State Air Quality Regulation	2-2
2.4 Regional Air Quality Regulation	2-3
2.5 Local Air Quality Regulation	2-4
2.6 Other Air Quality Plans	2-4
3.0 BACKGROUND INFORMATION ON AIR POLLUTANTS	
3.1 Criteria Pollutants	3-1
3.2 Sources and Effects of Criteria Pollutants	3-1
3.3 Other Pollutants	3-5
3.4 Additional Information	3-5
4.0 INITIAL CONSULTATION	
4.1 Consultation at the Planning Counter	4-1
4.2 Siting of Land Uses	4-1
4.3 Site Design Issues	4-3
5.0 INITIAL STUDY/DETERMINING SIGNIFICANCE	
5.1 Preparing the Initial Study	5-1
5.2 Criteria for Significance	5-2
5.3 Criteria for Determining Construction Impacts	5-2
5.4 Criteria for Determining Operational Impacts	5-4
5.5 Criteria for Determining Cumulative Impacts and Consistency	5-10
5.6 Criteria for Negative Declarations, Mitigated Negative Declarations, and EIRs	5-12

Table of Contents Continued on Next Page

TABLE OF CONTENTS – Continued

	<u>Page</u>
6.0 ENVIRONMENTAL SETTING	
6.1 Contents of Setting Section	6-1
6.2 Topography and Methodology	6-1
6.3 State and Federal Air Quality Standards	6-3
6.4 Attainment Status of the NCCAB	6-4
6.5 Existing Ambient Air Quality	6-5
6.6 Existing Emissions from the Project Site	6-6
6.7 Sensitive Receptors	6-6
7.0 QUANTIFYING AIR POLLUTANTS	
7.1 Preparing an Impact Analysis	7-1
7.2 Calculating Construction Emissions	7-2
7.3 Calculating Stationary Source Emissions	7-3
7.4 Calculating Indirect Source Emissions	7-5
7.5 Estimating Localized Carbon Monoxide Impacts	7-10
7.6 Assessing Cumulative Impact, Consistency, and Conformity	7-12
7.7 Project Alternatives	7-12
7.8 Preparation of Program EIRs	7-12
7.9 Preparation of Master EIRs	7-13
8.0 MITIGATION MEASURES	
8.1 Criteria for Mitigation Measures	8-1
8.2 Mitigating Construction Emissions	8-1
8.3 Mitigating Stationary Source Emissions	8-3
8.4 Mitigating Off-Road Mobile Source Emissions	8-3
8.5 Mitigating Indirect Source Emissions	8-4
8.6 Mitigating Localized Carbon Monoxide Impacts	8-10
8.7 Mitigating Cumulative Impacts	8-11
8.8 Mitigation Monitoring and Reporting	8-13
9.0 TOXIC AIR CONTAMINANTS	
9.1 Overview	9-1
9.2 Regulation of Toxic Air Contaminants	9-1
9.3 Siting Considerations	9-2
9.4 Criteria for Significance	9-3
9.5 Assessing Impacts of Toxic Air Contaminants	9-3
10.0 DEMOLITION AND DECONSTRUCTION	10-1

11.0	HEALTH RISK ASSESMENTS AND LAND USE SITING	11-1
12.0	CLIMATE CHANGE AND ASSESSMENT OF PROJECT IMPACTS FROM GREENHOUSE GASES	12-1

This page is intentionally blank.

TABLES AND FIGURES

	<u>Page</u>
TABLES	
Table 3-1	Ambient Air Quality Standards 3-3
Table 5-1	Threshold of Significance - Construction Impacts 5-3
Table 5-2	Construction Activity with Potentially Significant Impacts 5-4
Table 5-3	Thresholds of Significance for Criteria Pollutants of Concern - Operational Impacts 5-6
Table 5-4	Indirect Sources with Potentially Significant Impacts on Ozone 5-7
Table 5-5	Population Forecasts for North Central Coast Air Basin 5-15
Table 6-1	Attainment Status of the North Central Coast Air Basin 6-5
Table 6-2	Ambient Air Monitoring Stations in North Central Coast Air Basin 6-8
Table 6-3	Exceedances of State Ozone AAQS in North Central Coast Air Basin 6-9
Table 6-4	Violations of State PM ₁₀ AAQS in North Central Coast Air Basin 6-10
Table 6-5	Examples of Reasonable Receptor Sites 6-11
Table 7-1	Emission Factors for Heavy-Duty Diesel-Powered Equipment 7-8
Table 7-2	Emission Factors for Heavy-Duty Gasoline-Powered Equipment 7-10
Table 8-1	Percent Work Trips by Land Use 8-8
Table 8-2	Mitigation Measures - Construction Emissions 8-14
Table 8-3	Mitigation Measures - Heavy Duty Equipment 8-16
Table 8-4	Mitigation Measures Heavy Duty Diesel Engines 8-17
Table 8-5	Mitigation Measures - Commercial, Industrial, Institutional Land Uses 8-18
Table 8-6	Mitigation Measures - Residential Land Uses 8-20
Table 8-7	Mitigation Measures - Alternative Fuels 8-21
FIGURES	
Figures 1-1	When Do I Need to Check with the Air District? 1-6
Figures 5-1	Checklist for Significance of Air Quality Impacts 5-14
APPENDICES	
Appendix A:	Glossary A-1
Appendix B:	References B-1
Appendix C	Diesel Health Risk Assessment Guidance C-1

This page is intentionally blank.

PREFACE

The purpose of these CEQA Air Quality Guidelines is to inform public agencies, consultants, project proponents and the general public of the Monterey Bay Unified Air Pollution Control District's adopted thresholds of significance and to provide guidance in the review and evaluation of air quality impacts of projects that are subject to the California Environmental Quality Act. The Guidelines are intended to provide uniform procedures for assessing air quality impacts and preparing the air quality section of environmental documents.

These Guidelines are an advisory document. They explain the Monterey Bay Unified Air Pollution Control District's recommended procedures for analyzing air quality impacts of projects in the North Central Coast Air Basin (comprised of Monterey, Santa Cruz, and San Benito Counties). This document updates the Guidelines last revised in 2004.

District staff is available to assist you in clarifying any of the guidance in this document and may be reached by calling (831) 647-9411.

The District will periodically update the Guidelines to accommodate new information, technical data, legislation, and legal changes as appropriate. As a recipient of this document, you are on the mailing list to be notified regarding revisions to the "CEQA Air Quality Guidelines." Copies of the Guidelines are available on-line at www.mbuapcd.org.

Monterey Bay Unified Air Pollution Control District
Planning and Air Monitoring Division
24580 Silver Cloud Court
Monterey, CA 93940
(831) 647-9411

This page is intentionally blank