

FINAL
Program Environmental Impact Report
for the
2007
Air Quality
Management
Plan



SCH #2006111064

June 2007

South Coast Air Quality Management District

Cleaning the air that we breathe...™



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT GOVERNING BOARD

Chairman:

WILLIAM A. BURKE, Ed.D.
Speaker of the Assembly Representative

Vice Chairman:

S. ROY WILSON, Ed.D.
Supervisor, Fourth District
Riverside County Representative

MEMBERS

MICHAEL D. ANTONOVICH
Supervisor, Fifth District
Los Angeles County Representative

BILL CAMPBELL
Supervisor, Third District
Orange County Representative

JANE W. CARNEY
Senate Rules Committee Appointee

RONALD O. LOVERIDGE
Mayor, City of Riverside
Cities Representative, Riverside County

GARY OVITT
Supervisor, Fourth District
San Bernardino County Representative

JAN PERRY
Councilmember, Ninth District
Cities Representative, Los Angeles County, Western Region

MIGUEL A. PULIDO
Mayor, City of Santa Ana
Cities Representative, Orange County

TONIA REYES URANGA
Councilmember, City of Long Beach
Cities Representative, Los Angeles County, Eastern Region

DENNIS YATES
Mayor, Chino
Cities Representative, San Bernardino County

VACANT
Governor's Appointee

EXECUTIVE OFFICER
BARRY WALLERSTEIN, D. Env.

CONTRIBUTORS

The following individuals contributed to the preparation of the main document. Many members of the South Coast Air Quality Management District staff as well as staff from the California Air Resources Board were involved in various aspects of the development of the draft Program Environmental Impact Report to the draft 2007 AQMP.

South Coast Air Quality Management District

Barry R. Wallerstein, D.Env.
Executive Officer

Elaine Chang, DrPH
Deputy Executive Officer
Planning, Rule Development and Area Sources

Laki Tisopulos, Ph.D., P.E.
Assistant Deputy Executive Officer
Planning, Rule Development and Area Sources

Prepared By

Environmental Audit, Inc. for the South Coast Air Quality Management District

Contributors

Henry Hogo, Assistant Deputy Executive Officer
Susan Nakamura, Planning and Rules Manager
Joseph Cassmassi, Planning and Rules Manager
Zorik Pirveysian, Environmental Technology Assessment Manager
Jill Whynot, Planning and Rules Manager
Steve Smith, Ph.D., Program Supervisor
Edward Eckerle, Program Supervisor
Ali Ghasemi, Program Supervisor
Gary Quinn, Program Supervisor
Kathy Hsiao, Program Supervisor
Naveen Berry, Program Supervisor
Michael Krause, Air Quality Specialist
Susan Yan, Air Quality Specialist

Reviewed By

Barbara Baird, Principal Deputy, District Counsel
Larry Bowen, Planning and Rules Manager
Carol Gomez, Planning & Rules Manager
Eyvonne Sells, Air Quality Specialist

TABLE OF CONTENTS

Page No.

EXECUTIVE SUMMARY

Introduction.....ES-1
 Summary - Chapter 2 - Project DescriptionES-2
 Summary - Chapter 3 - Environmental Setting.....ES-4
 Summary - Chapter 4 - Environmental Impacts and Mitigation MeasuresES-8
 Summary - Chapter 5 – Cumulative Impacts.....ES-11
 Summary - Chapter 6 - AlternativesES-15
 Summary - Chapter 7 – Other CEQA TopicsES-17

CHAPTER 1 – INTRODUCTION

1.1 Introduction 1-1
 1.2 California Environmental Quality Act..... 1-4
 1.3 Notice of Preparation/Initial Study 1-4
 1.4 Type of EIR 1-4
 1.5 Intended Uses of This Document 1-5
 1.6 Areas of Controversy 1-6
 1.7 Project Objectives 1-6
 1.8 Document Format 1-8

CHAPTER 2 – PROJECT DESCRIPTION

2.1 Introduction 2-1
 2.1.1 Background..... 2-1
 2.2 Project Location 2-4
 2.3 Progress in Implementing the 2003 AQMP 2-5
 2.3.1 SCAQMD’S Actions 2-5
 2.3.2 California Air Resources Board (CARB) Actions..... 2-7
 2.4 Control Measure Number 2-7
 2.5 Proposed Control Strategy 2-10
 2.6 2007 AQMP Control Measures 2-11
 2.6.1 SCAQMD’S Stationary and Mobile Source Short – and Mid-term Control
 Measures 2-11
 2.6.2 State and Federal Control Measures 2-26
 2.6.3 Long-Term Control Measures..... 2-43
 2.6.4 Regional Transportation Strategy and Control Measures..... 2-46
 2.7 SCAQMD’S SIP Emissions Commitment 2-48
 2.8 Attainment Demonstration..... 2-52
 2.8.1 Modeling..... 2-52
 2.8.2 PM2.5 Attainment..... 2-52
 2.8.3 PM10 Attainment..... 2-53

	Page No.
2.8.4	Ozone Attainment..... 2-53
2.8.5	District Emission Carrying Capacity (Emissions Budget)..... 2-54
2.8.6	Transportation Conformity Budgets 2-56
2.9	Implementation 2-58
2.10	Contingency Measures..... 2-59
2.11	Additional Considerations 2-60
2.11.1	2030 Ozone Air Quality..... 2-60
2.11.2	New Federal Air Quality Standards for Fine Particulates 2-61
2.11.3	California PM Air Quality Standards 2-62
2.11.4	Greenhouse Gases..... 2-62
2.11.5	Ultrafine Particles 2-63
 CHAPTER 3 – EXISTING SETTING	
3.0	Introduction..... 3.0-1
3.1	Air Quality 3.1-1
3.1.1	Criteria Air Pollutants..... 3.1-1
3.1.2	Current Air Quality..... 3.1-27
3.1.3	Control of Emissions from Ports and Port-Related Facilities..... 3.1-44
3.1.4	Non-Criteria Air Pollutants..... 3.1-45
3.1.5	Transport of Air Pollutants 3.1-58
3.2	Energy..... 3.2-1
3.2.1	Regulatory Setting 3.2-1
3.2.2	Energy Trends in General (Statewide)..... 3.2-4
3.2.3	Alternative Clean Transportation Fuels..... 3.2-10
3.2.4	Renewable Energy 3.2-20
3.3	Hazards 3.3-1
3.3.1	Introduction..... 3.3-1
3.3.2	Hazardous Materials Regulations 3.3-1
3.3.3	Emergency Response to Hazardous Materials and Waste Incidents 3.3-5
3.3.4	Hazardous Materials Incidents..... 3.3-6
3.3.5	Hazards Associated with Air Pollution Control and Alternative Fuels 3.3-7
3.4	Hydrology/Water Quality 3.4-1
3.4.1	Regulatory Background 3.4-1
3.4.2	Existing Water Sources and Uses 3.4-4
3.4.3	Water Demand and Forecasts 3.4-6
3.4.4	Imported Water Supplies 3.4-9
3.4.5	Local Water Supplies..... 3.4-14
3.4.6	Water Resources Alternatives..... 3.4-15
3.4.7	Water Recycling..... 3.4-18
3.4.8	Water Conservation 3.4-21
3.4.9	Water Quality..... 3.4-22
3.4.10	Wastewater Treatment 3.4-24
3.5	Solid/Hazardous Waste Management 3.5-1
3.5.1	Regulatory Background 3.5-1

	Page No.
3.5.2 Solid Waste Management	3.5-1
3.5.3 Hazardous Waste Management.....	3.5-7
 CHAPTER 4 – ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES	
4.0 Introduction.....	4.0-1
4.1 Air Quality Impacts.....	4.1-1
4.1.1 Introduction.....	4.1-1
4.1.2 Future Air Quality Baseline	4.1-1
4.1.3 Significance Criteria	4.1-4
4.1.4 2007 AQMP Air Quality Modeling Results	4.1-5
4.1.5 Potential Impacts and Mitigation	4.1-9
4.1.6 Summary of Air Quality Impacts.....	4.1-65
4.2 Energy Impacts	4.2-1
4.2.1 Introduction.....	4.2-1
4.2.2 2007 AQMP Control Measures with Potential Energy Impacts.....	4.2-1
4.2.3 Significance Criteria	4.2-1
4.2.4 Potential Impacts and Mitigation	4.2-5
4.2.5 Summary of Energy Impacts	4.2-14
4.3 Hazards	4.3-1
4.3.1 Introduction.....	4.3-1
4.3.2 2007 AQMP Control Measures with Potential Hazard Impacts.....	4.3-1
4.3.3 Significance Criteria	4.3-1
4.3.4 Potential Environmental Impacts and Mitigation Measures.....	4.3-1
4.3.5 Summary of Hazard Impacts	4.3-33
4.4 Hydrology and Water Quality.....	4.4-1
4.4.1 Introduction.....	4.4-1
4.4.2 Significance Criteria	4.4-1
4.4.3 2007 Control Measures with Potential Hydrology and Water Quality Impacts.....	4.4-1
4.4.4 Summary of Hydrology/Water Quality Impacts.....	4.4-18
4.5 Solid/Hazardous Waste.....	4.5-1
4.5.1 Introduction.....	4.5-1
4.5.2 2007 AQMP Control Measures with Solid/Hazardous Waste Impacts	4.5-1
4.5.3 Significance Criteria	4.5-1
4.5.4 Potential Solid/Hazardous Waste Impacts and Mitigation Measures	4.5-6
4.5.5 Summary of Solid/Hazardous Waste Impacts	4.5-14
4.6 Consistency	4.6-1
4.6.1 Introduction.....	4.6-1
4.6.2 Consistency with Regional Comprehensive Plan and Guide (RCPG) Policies.....	4.6-1
4.6.3 Consistency with Growth Management Chapter (GMC) to Improve the Regional Standard of Living	4.6-1

	Page No.
4.6.4	Consistency with Growth Management Chapter (GMC) to Provide Social, Political, and Cultural Equity 4.6-2
4.6.5	Consistency with Growth Management Chapter (GMC) to Improve the Regional Quality of Life..... 4.6-2
4.6.6	Consistency with Regional Transportation Plan (RTP) and Congestion Management Plan (CMP) 4.6-3
4.7	Potential Environmental Impacts Found Not To Be Significant 4.7-1
4.7.1	Introduction..... 4.7-1
4.7.2	Aesthetics 4.7-1
4.7.3	Agricultural Resources..... 4.7-3
4.7.4	Biological Resources 4.7-3
4.7.5	Cultural Resources 4.7-4
4.7.6	Geology and Soils 4.7-5
4.7.7	Land Use and Planning 4.7-7
4.7.8	Mineral Resources 4.7-8
4.7.9	Noise 4.7-8
4.7.10	Population and Housing..... 4.7-9
4.7.11	Public Services..... 4.7-10
4.7.12	Recreation 4.7-11
4.7.13	Transportation and Traffic 4.7-11
 CHAPTER 5 – CUMULATIVE IMPACT	
5.1	Introduction..... 5-1
5.2	Aesthetics 5-2
5.2.1	Cumulative Aesthetic Impacts 5-2
5.2.2	Mitigation Measures 5-4
5.2.3	Level of Impact After Mitigation Measures 5-5
5.3	Agricultural Resources Impacts 5-5
5.3.1	Cumulative Agricultural Resources Impacts 5-5
5.3.2	Mitigation Measures 5-6
5.3.3	Level of Impact After Mitigation Measures 5-7
5.4	Air Quality 5-7
5.4.1	Cumulative Air Quality Impacts..... 5-7
5.4.2	Mitigation Measures 5-8
5.4.3	Level of Significance After Mitigation Measures 5-9
5.5	Biological Resources 5-9
5.5.1	Cumulative Biological Resources Impacts 5-9
5.5.2	Mitigation Measures 5-11
5.5.3	Level of Impact After Mitigation Measures 5-13
5.6	Cultural Resources 5-13
5.6.1	Cumulative Cultural Resources Impacts..... 5-13
5.6.2	Mitigation Measures 5-14
5.6.3	Level of Impact After Mitigation Measures 5-17

	Page No.
5.7	Energy..... 5-18
5.7.1	Cumulative Energy Impacts..... 5-18
5.7.2	Mitigation Measures 5-18
5.7.3	Level of Impact After Mitigation Measures 5-19
5.8	Geology and Soils..... 5-19
5.8.1	Cumulative Geology and Soils Impacts..... 5-19
5.8.2	Mitigation Measures 5-20
5.8.3	Level of Impact After Mitigation Measures 5-21
5.9	Hazards and Hazardous Materials 5-21
5.9.1	Cumulative Hazards and Hazardous Materials Impacts 5-21
5.9.2	Mitigation Measures 5-22
5.9.3	Level of Impact After Mitigation Measures 5-22
5.10	Hydrology/Water Quality 5-23
5.10.1	Hydrology and Water Quality Impacts 5-23
5.10.2	Mitigation Measures 5-24
5.10.3	Level of Impact After Mitigation Measures 5-27
5.11	Land Use/Planning..... 5-28
5.11.1	Land Use/Planning Impacts 5-28
5.11.2	Mitigation Measures 5-29
5.11.3	Level of Impact After Mitigation Measures 5-30
5.12	Mineral Resources 5-30
5.12.1	Cumulative Mineral Resources Impacts 5-30
5.12.2	Mitigation Measures 5-31
5.12.3	Level of Impact After Mitigation Measures 5-31
5.13	Noise 5-31
5.13.1	Cumulative Noise Impacts 5-31
5.13.2	Mitigation Measures 5-32
5.13.3	Level of Impact After Mitigation Measures 5-35
5.14	Population/Housing..... 5-35
5.14.1	Population/Housing Impacts 5-35
5.14.2	Mitigation Measures 5-36
5.14.3	Level of Impact After Mitigation Measures 5-37
5.15	Public Services..... 5-37
5.15.1	Public Services Impacts 5-37
5.15.2	Mitigation Measures 5-38
5.15.3	Level of Impact After Mitigation Measures 5-40
5.16	Recreation 5-41
5.17	Solid/Hazardous Waste..... 5-41
5.17.1	Cumulative Solid/Hazardous Waste Impacts..... 5-41
5.17.2	Mitigation Measures 5-41
5.17.3	Level of Impact After Mitigation Measures 5-42
5.18	Transportation/Traffic..... 5-42
5.18.1	Cumulative Transportation/Traffic Impacts 5-42
5.18.2	Mitigation Measures 5-44

	Page No.
5.18.3 Level of Impact After Mitigation Measures	5-44
 CHAPTER 6 - ALTERNATIVES	
6.1 Introduction.....	6-1
6.2 Development of Alternatives	6-1
6.2.1 Methodology for Development of Alternatives	6-1
6.2.2 Alternative Eight-Hour Ozone Control Strategies	6-4
6.2.3 Alternative PM2.5 Control Strategies	6-4
6.3 Alternatives Rejected as Infeasible.....	6-5
6.3.1 No Project Alternative (No 2007 AQMP)	6-5
6.3.2 More (Heavy) VOC Reductions Alternative (2023).....	6-6
6.3.3 Alternative PM2.5 Attainment Demonstration	6-7
6.3.4 Shifting Emissions or Local Controls	6-7
6.3.5 Seasonal Controls.....	6-8
6.3.6 Temporal Controls	6-8
6.3.7 No Request to “Bump Up” to Extreme.....	6-8
6.4 Alternatives to the 2007 AQMP	6-8
6.4.1 Alternative 1 – No Project Alternative	6-9
6.4.2 Alternative 2 – Combined VOC and NOx Reductions Alternative (Least Toxic Alternative).....	6-11
6.5 Alternatives Analysis	6-12
6.5.1 Air Quality	6-12
6.5.2 Energy	6-12
6.5.3 Hazards	6-13
6.5.4 Hydrology/Water Quality	6-13
6.5.5 Solid/Hazardous Waste.....	6-14
6.6 Environmentally Superior Alternative.....	6-14
6.7 Conclusion	6-15
 CHAPTER 7 - OTHER CEQA TOPICS	
7.1 Relationship Between Short-Term Uses and Long-Term Productivity	7-1
7.2 Significant Irreversible Environmental Changes	7-1
7.3 Growth-Inducing Impacts	7-2
 CHAPTER 8 - REFERENCES	
References.....	8-1
Organizations and Persons Consulted.....	8-7
List of Environmental Impact Report Preparers	8-7
 CHAPTER 9 - ACRONYMS	
Acronyms.....	9-1

APPENDICES:

- Appendix A: Notice of Preparation/Initial Study
- Appendix B: Comments Received on the NOP/Initial Study and Response to Comments

FIGURES:

Figure 2-1	Southern California Air Basin' Boundaries and SCAQMD Jurisdiction	2-3
Figure 3.1-1	Comparison of On-Road Emissions Between EMFAC2002 (2003 AQMP) and EMFAC2007 V2.3 (Proposed Modifications to Final Draft 2007 AQMP) (VOC & NOx – Summer Planning; SOx & PM2.5 – Annual Average Inventory)	3.1-16
Figure 3.1-2	Comparison of Off-Road Emissions Between 2003 AQMP and Proposed Modifications to the Final Draft 2007 AQMP (VOC & NOx – Summer Planning; SOx & PM2.5 – Annual Average Inventory)	3.1-18
Figure 3.1-3	2002 Annual Average Daily Emissions in the Basin.....	3.1-20
Figure 3.1-4	2002 Planning Inventory Emissions in the Basin	3.1-20
Figure 3.1-5	Relative Contribution by Source Category to 2002 Emission Inventory (VOC & NOx – Summer Planning; CO, SOx & PM2.5 – Annual Average Inventory)	3.1-21
Figure 3.1-6	Annual Average Daily Emissions for 2014, 2020, and 2023 Base Years	3.1-23
Figure 3.1-7	Winter and Summer Planning Inventory Emissions for 2014, 2020, and 2023 Base Years	3.1-23
Figure 3.1-8	Relative Contribution by Source Category to 2023 Emission Inventory (VOC & NOx – Summer Planning; CO, SOx & PM2.5 – Annual Average Inventory)	3.1-24
Figure 3.1-9	2005 Air Quality Maximum Pollutant Concentrations as Percentages of the Federal Standard South Coast Air Basin Compared to other Major U.S. Metropolitan Areas	3.1-26
Figure 3.1-10	2005 Air Quality Maximum Pollutant Concentrations as Percentages of the Federal Standard South Coast Air Basin Compared to Other Air Basins in California	3.1-26
Figure 3.1-11	Maximum Pollutant Concentrations as Percent of Federal Standards.....	3.1-28
Figure 3.1-12	Locations that Exceeded the Federal One-Hour Ozone Standard the Most Days in Each Year	3.1-29
Figure 3.1-13	Locations that Exceeded the Federal Eight-Hour Ozone Standard the Most Days in Each Year	3.1-29
Figure 3.1-14	2005 Number of Days Exceeding the Federal Ozone Standard (One-Hour Average Ozone > 0.12 ppm)	3.1-32
Figure 3.1-15	2005 Number of Days Exceeding the Federal Ozone Standard (Eight-Hour Average Ozone > 0.08 ppm)	3.1-32

	Page No.
Figure 3.1-16	2005 Annual Average Concentration Compared to Federal PM10 Standard (Federal standard = 50 ug/m ³ , annual arithmetic mean) 3.1-35
Figure 3.1-17	2005 Annual Average Concentration Compared to Federal PM2.5 Standard (Federal standard = 15 ug/m ³ , annual arithmetic mean) 3.1-37
Figure 3.1-18	California GHG Emissions and Sinks Summary 3.1-57
Figure 3.2-1	California’s Major Sources of Energy 3.2-5
Figure 4.1-1	Relative Contribution by Source Category to 2002 Emissions Inventory (VOC & NOx-Summer Planning; CO, SOx & PM2.5-Annual Average Inventory) 4.1-2
Figure 4.1-2	Relative Contribution by Source Category to 2023 Emissions Inventory (VOC & NOx-Summer Planning; CO, SOx & PM2.5-Annual Average Inventory) 4.1-3
Figure 4.1-3	Annual Average PM2.5 Design Concentrations: 4.1-7
	2005, 2015 Controlled, and 2024 Controlled
Figure 4.1-4	Maximum 24-Hour Average PM2.5 Design Concentrations: 4.1-7
	2005 Baseline, 2015 Controlled, and 2024 Controlled
Figure 4.1-5	Annual Average Daytime Visibility Projections at Rubidoux..... 4.1-8
Figure 4.1-6	NOx Rate-of-Progress for the Three Policy Options 4.1-15
Figure 4.1-7	Projection of Future Air Quality in the Basin in Comparison with the Most Stringent Federal Standards 4.1-67
Figure 4.1-8	Projection of Future Air Quality in the Basin in Comparison with the Most Stringent California Standards..... 4.1-67
Figure 5.5-1	Peak Predicted Ozone Concentrations (pphm) for 2010..... 5-10
Figure 5.5-2	Annual Average PM10 Concentration by Area for Year 2010..... 5-11
Figure 5.5-3	Maximum 24-Hour PM10 Concentration by Area for Year 2010..... 5-11
Figure 6-1	2007 AQMP Plan: NOx Heavy 2024 Eight-Hour Ozone Strategy..... 6-2
Figure 6-2	More or “Heavy” VOC Reductions Alternative 2024 8-Hour Average Ozone Strategy 6-6
Figure 6-3	Combined VOC and NOx Alternative 2024 8-Hour Average Ozone Strategy..... 6-11
Figure 6-4	Comparison of Ozone Attainment Alternatives..... 6-12
TABLES:	
Table ES-1	Environmental Impacts of Alternatives as Compared to Proposed Project ES-16
Table ES-2	Summary of Environmental Impacts, Mitigation Measures, and Residual Impacts ES-19
Table ES-3	2007 AQMP Control Measure Environmental Analysis ES-25
Table 1-1	Areas of Controversy 1-7
Table 2-1	Rules and Regulations Adopted by District Since Adoption of 2003 AQMP 2-5
Table 2-2	State Measures Adopted Since 2003 AQMP 2-8
Table 2-3	SCAQMD’s Proposed Control Measures 2-12

		Page No.
Table 2-4	SCAQMD’s Short-Term and Mid-Term Stationary AQMP Control Measures with Quantified Emission Reduction Estimates	2-14
Table 2-5	SCAQMD’s Short-Term and Mid-Term Stationary and Mobile Source AQMP Control Measures Without Emission Reduction Estimates	2-15
Table 2-6	Stationary Source Control Methods.....	2-17
Table 2-7	2014 Expected Emission Reductions from CARB’s Proposed New SIP Measures	2-32
Table 2-8	2020 Expected Emission Reductions from CARB’s Proposed New SIP Measures	2-33
Table 2-9	2023 Expected Emission Reductions from CARB’s Proposed New SIP Measures	2-34
Table 2-10	Example List of Past Suggested Funding Sources by Various Parties	2-36
Table 2-11	Additional Mobile Source Control Measures Proposed by SCAQMD	2-37
Table 2-12	Comparison of Mobil Source Control Measures	2-41
Table 2-13	Possible Approaches for Long-Term Control Measures	2-45
Table 2-14	Short-and Mid-Term VOC, NOx, Sox, and PM2.5 Emission Reductions Commitment by SCAQMD to be Achieved Through Rule Adoption And Implementation -2014 Annual Average Inventory/2023 Planning Inventory.....	2-49
Table 2-15	Emissions Reductions for 2014 Based on Average Annual Emissions Inventory.....	2-50
Table 2-16	Emissions Reductions for 2023 Based on Summer Planning Inventory	2-50
Table 2-17	Emission Reductions for 2023 Based on Winter Planning Inventory	2-51
Table 2-18	Expected Year of Compliance with State and Federal Standards for The Four Criteria Pollutants.....	2-54
Table 2-19	Emissions Carrying Capacity Estimations for the South Coast Air Basin based on the Planning Inventory.....	2-55
Table 2-20	Preliminary Motor Vehicle Emissions Budgets: PM2.5.....	2-57
Table 2-21	Preliminary Motor Vehicle Emissions Budgets: Eight Hour Ozone	2-57
Table 2-22	Preliminary Motor Vehicle Emissions Budgets: Carbon Monoxide	2-58
Table 2-23	Agencies Primarily Responsible for Implementation of the 2007 AQMP ..	2-58
Table 3.1-1	Ambient Air Quality Standards	3.1-3
Table 3.1-2	2005 Air Quality Data – South Coast Air Quality Management District.....	3.1-5
Table 3.1-3	2005 Maximum One-Hour Ozone Concentrations by Basin and County.....	3.1-31
Table 3.1-4	2005 Maximum Eight-Hour Ozone Concentrations by Basin and County	3.1-31
Table 3.1-5	2005 Maximum 24-hour Average PM10 Concentrations by Basin and County.....	3.1-34
Table 3.1-6	2005 Maximum Annual Average PM10 Concentrations by Basin and County.....	3.1-34
Table 3.1-7	2005 Maximum 24-Hour Average PM2.5 Concentrations by Basin and County.....	3.1-36

	Page No.
Table 3.1-8	2005 Maximum Annual Average PM2.5 Concentrations by Basin and County 3.1-36
Table 3.1-9	2005 Maximum Carbon Monoxide Concentrations by Basin and County 3.1-38
Table 3.1-10	2005 Maximum Nitrogen Dioxide Concentrations by Basin and County 3.1-40
Table 3.1-11	2005 Maximum Sulfur Dioxide Concentrations by Basin and County 3.1-41
Table 3.1-12	2005 Maximum Sulfate Concentrations by Basin and County 3.1-42
Table 3.1-13	2005 Maximum Lead Concentrations by Basin and County 3.1-44
Table 3.1-14	NESHAP Regulations – Pre-1990 CAA 3.1-46
Table 3.1-15	NESHAPs Promulgated Under the 1990 Amendments of the CAA 3.1-47
Table 3.1-16	SCAQMD Rules Adopted or Proposed for Adoption Pursuant to AB 1807 and AB 1731 3.1-50
Table 3.1-17	SCAQMD Rules Adopted for Control of TACs 3.1-53
Table 3.1-18	California GHG Emissions and Sinks Summary 3.1-57
Table 3.2-1	California Utility Electricity Deliveries for 2000 3.2-6
Table 3.2-2	California Natural Gas Demand 2005 3.2-8
Table 3.3-1	Reported Hazardous Materials Incidents – 2005/2006 3.3-7
Table 3.3-2	Location of Hazardous Materials Spills - 2001 3.3-7
Table 3.4-1	2010 – 2030 Water Demand and Forecast 3.4-8
Table 3.4-2	Priority in Seven-Party Agreement and Water Delivery Contracts 3.4-13
Table 3.4-3	Wastewater Flow and Capacity in the SCAG Region 3.4-26
Table 3.5-1	Number of Class III Landfills Located within the District and Related Landfill Capacity 3.5-2
Table 3.5-2	Number of Waste Transformation Facilities Located within the South Coast Air Basin and Related Capacity 3.5-2
Table 3.5-3	Los Angeles County Landfill Status 3.5-4
Table 3.5-4	Orange County Landfill Status 3.5-5
Table 3.5-5	Riverside County Landfill Status 3.5-6
Table 3.5-6	San Bernardino County Landfill Status 3.5-7
Table 3.5-7	Hazardous Waste Generation in the Basin - 2005 3.5-8
Table 4.0-1	Control Measures with No Significant Adverse Environmental Impacts 4.0-2
Table 4.0-2	Control Measures Whose Impacts are Speculative 4.0-4
Table 4.1-1	Air Quality Significance Thresholds 4.1-4
Table 4.1-2	Expected Year of Compliance with State and Federal Standards 4.1-5
Table 4.1-3	Control Measures with Potential Secondary Air Quality Impacts 4.1-10
Table 4.1-4	Annual Average Construction Emissions by Source Category in the District 4.1-18
Table 4.1-5	Annual Average Operational Emissions for Electric Generation in the District from non-RECLAIM Facilities 4.1-22
Table 4.1-6	Summary of Coating Characteristics 4.1-28
Table 4.1-7	Summary of 2005 CARB Survey 4.1-30

	Page No.
Table 4.1-8	Compliance with Suggested Control Measure Limits for Architectural Coatings 4.1-34
Table 4.1-9	Performance Comparison of Acrylic (Low VOC) and Alkyd (High VOC) Resin Systems 4.1-39
Table 4.1-10	Summary of Solvents Studied in the Environmental Chamber Experiments and the Conclusions from the Results 4.1-43
Table 4.1-11	Annual Average Emissions by On-Road Mobile Sources in the District..... 4.1-54
Table 4.1-12	CAAP Measures Emissions Reductions 4.1-56
Table 4.1-13	Summary of 2007 AQMP Estimated Greenhouse Gas Emission Reductions 4.1-59
Table 4.1-14	Total NOx Emissions from Hotelling Operations 4.1-62
Table 4.2-1	Control Measures with Potential Energy Impacts 4.2-2
Table 4.2-2	Electricity Impacts for Southern California 4.2-6
Table 4.2-3	Natural Gas Impacts for the District 4.2-9
Table 4.2-4	Projected Petroleum Fuel Displacement with Natural Gas in California ... 4.2-9
Table 4.2-5	Projected Transportation Fuel Consumption in Southern California 4.2-11
Table 4.2-6	Estimated Reductions in Petroleum Fuels Associated with 2007 AQMP Control Measures 4.2-12
Table 4.2-7	Hydrogen Transportation Fuel Use in California 4.2-14
Table 4.3-1	Control Measures with Potential Hazards Impacts 4.3-2
Table 4.3-2	Chemical Characteristics for Common Coating Solvents 4.3-5
Table 4.3-3	Toxicity of Currently Available Coating Solvents 4.3-7
Table 4.3-4	Maximum Hazard Distances for Maximum Credible Event in Each Process Unit/Area 4.3-9
Table 4.3-5	Hazard Summary of Methanol Compared to Gasoline..... 4.3-12
Table 4.3-6	Summary of Hazards and Existing Safety Regulations/Procedures Associated with Alternative Clean-Fuels..... 4.3-22
Table 4.3-7	Truck Accident Rates for Cargo on Highways 4.3-27
Table 4.4-1	Control Measures with Potential Hydrology/Water Impacts 4.4-2
Table 4.4-2	Estimated Water Demand Due to SCAQMD Rules 403,403.1 1156 and 1157..... 4.4-17
Table 4.5-1	Control Measures with Potential Solid/Hazardous Waste Impacts 4.5-2
Table 4.5-2	Summary of Source Reduction Compliance..... 4.5-14
Table 5.4-1	CEQA Project and Project Alternatives - 2003 AQMP EIR 5-5
Table 5.4-2	Applicable Control Measures for the Project and Project Alternatives 5-6
Table 6-1	Remaining 2003 AQMP Control Measures 6-10
Table 6-2	Environmental Impacts of Alternatives as Compared to Proposed Project 6-15