TABLE OF CONTENTS

		 	\sim		
$\vdash x$	⊢ (`1	 V F	S11	N/I N/I	IARY
$ ^{\sim}$	$ \circ$	 v 🗀	uu	IVIIVI	

ACKNOWLEDGEMENTS

TABLE OF CONTENTS

LIST OF TABLES, FIGURES, FACT SHEETS, AND FLOWCHARTS

LIST OF ACRONYMS

GLOSSARY OF TERMS

CHAPTER 1 INTRODUCTION

1.1 PURPOSE

1.2 **DEFINITIONS**

- 1.2.1 Landfill
- 1.2.2 Major Class III Landfill
- 1.2.3 Major Landfill
- 1.2.4 Minor Class III Landfill
- 1.2.5 Minor Landfill
- 1.2.6 Permitted Capacity
- 1.2.7 Solid Waste

1.3 SPECIFIC REQUIREMENTS

1.4 BACKGROUND

- 1.4.1 Los Angeles County Demographics
- 1.4.2 Development of the Previous Countywide Siting Element (Dated June 1997)
- 1.4.3 Los Angeles County Solid Waste Collection and Disposal System

1.5 EXISTING IN-COUNTY DISPOSAL RATE AND DISPOSAL CAPACITY

1.5.1 Class III Landfills

- 1.5.1.1 Major Class III Landfills
- 1.5.1.2 Minor Class III Landfills

1	.5.2	Inert Waste I	andfille
	.U.Z	IIIEIL WASIE I	Lanunna

- 1.5.2.1 Permitted Inert Waste Landfills
- 1.5.2.2 Inert Debris Engineered Fill Operations
- 1.5.3 Transformation (Waste-to-Energy) Facilities

1.6 POTENTIAL NEW OR EXPANSION OF EXISTING IN-COUNTY CAPACITY

- 1.6.1 Class III Landfills
 - 1.6.1.1 Potential New Class III Landfills
 - 1.6.1.2 Potential Expansion of Existing Class III Landfills
- 1.6.2 Inert Waste Landfills
 - 1.6.2.1 Potential New Inert Waste Landfills
 - 1.6.2.2 Potential Expansion of Existing Inert Waste Landfills
- 1.6.3 Transformation (Waste-to-Energy) Facilities
 - 1.6.3.1 Potential New and/or Expansion of Transformation Facilities
 - 1.6.3.2 Potential Expansion of Existing Transformation Facilities
- 1.6.4 Alternative Technology Facilities
 - 1.6.4.1 Potential New Conversion/Recovery Technology Facilities
 - 1.6.4.2 Potential New Alternative Technology Facilities
- 1.6.5 Biomass Processing Facilities

1.7 SOLID WASTE IMPORT

1.8 SOLID WASTE EXPORT

1.8.1 Out-of-County Class III Landfills (Located in California) Potentially Available for Out-of-County Disposal

1.9 PREVIOUS PLANNING ACTIVITIES

- 1.9.1 County Solid Waste Management Plan
- 1.9.2 Los Angeles County Solid Waste Management Action Plan
 - 1.9.2.1 Solid Waste Management Siting Project
 - 1.9.2.2 Report on Solid Waste Management Status and Disposal Options in Los Angeles County
 - 1.9.2.3 Preliminary Alternate Site Study

1.9.2.4 Action Plan

1.10 ONGOING EXISTING PLANNING ACTIVITIES

- 1.10.1 Countywide Integrated Waste Management Plan
- 1.10.2 Board Motion, Synopsis 5, September 30, 2003
- 1.10.3 Five-Year Review of the Los Angeles County Countywide Integrated Waste Management Plan
- 1.10.4 Countywide Siting Element Revision Process
- 1.10.5 Los Angeles County Solid Waste Management 2050 Plan

1.11 ROLE OF LOS ANGELES COUNTY SOLID WASTE MANAGEMENT COMMITTEE/ INTEGRATED WASTE MANAGEMENT TASK FORCE

- 1.11.1 Former Los Angeles County Solid Waste Management Committee
- 1.11.2 Current Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force

1.12 ROLE OF LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

1.13 TABLES AND FIGURES

TABLES

Table 1-1	Summary of the Los Angeles County Countywide Siting

Element

Table 1-2 Countywide Siting Element Preparation, Approval, and

Revision Process

Table 1-3 Task Force Role and Responsibilities

FIGURES

Figure 1-1 Solid Waste Management Hierarchy

Figure 1-2 Fundamental Components of Solid Waste Management

System

CHAPTER 2 GOALS AND POLICIES

2.1 PURPOSE

2.2 **DEFINITIONS**

- 2.2.1 Alternative Technology
- 2.2.2 Balefill
- 2.2.3 Baling

- 2.2.4 Conversion/Recovery Technology
- 2.2.5 Goals
- 2.2.6 Policies
- 2.2.7 Waste-to-Energy

2.3 SPECIFIC REQUIREMENTS

2.4 GOALS AND POLICIES

2.4.1 Goal No. 1

Policy No. 1.1

Policy No. 1.1.1

Policy No. 1.1.2

Policy No. 1.1.3

Policy No. 1.1.4

Policy No. 1.1.5

2.4.2 Goal No. 2

Policy No. 2.1

Policy No. 2.2

Policy No. 2.3

Policy No. 2.4

Policy No. 2.5

2.4.3 Goal No. 3

Policy No. 3.1

Policy No. 3.2

Policy No. 3.3

Policy No. 3.4

2.4.4 Goal No. 4

Policy No. 4.1

Policy No. 4.2

Policy No. 4.3

Policy No. 4.4

2.4.5 Goal No. 5

Policy No. 5.1

Policy No. 5.2

Policy No. 5.3

Policy No. 5.4 Policy No. 5.5

2.4.6 Goal No. 6

Policy No. 6.1 Policy No. 6.2 Policy No. 6.3 Policy No. 6.4 Policy No. 6.5 Policy No. 6.6

2.4.7 Goal No. 7

Policy No. 7.1 Policy No. 7.2 Policy No. 7.3 Policy No. 7.4 Policy No. 7.5 Policy No. 7.6 Policy No. 7.7 Policy No. 7.8

2.4.8 Goal No. 8

Policy No. 8.1

Policy No. 8.1.1 Policy No. 8.1.2 Policy No. 8.1.3 Policy No. 8.1.4

Policy No. 8.2

Policy No. 8.2.1 Policy No. 8.2.2 Policy No. 8.2.3 Policy No. 8.2.4 Policy No. 8.2.5 Policy No. 8.2.6

2.5 COUNTYWIDE SITING ELEMENT IMPLEMENTATION SCHEDULE

2.6 COUNTYWIDE SITING ELEMENT ADMINISTERING AGENCY AND FUNDING SOURCE

2.7 TABLES

Table 2-1 Countywide Siting Element Task Implementation Responsibilities and Task Implementation Schedule

CHAPTER 3 EXISTING SOLID WASTE DISPOSAL FACILITIES

3.1 PURPOSE

2 2		TELLAT		NIC
3.2	DEF	'IIVI	IIU	NO

3.2.1	Alternative Technology
-	3 ,
3.2.2	Biomass Processing
3.2.3	Class III Landfills
3.2.4	Conversion/Recovery Technology
3.2.5	Inert Debris Engineered Fill Operation (IDEFO)
3.2.6	Inert Waste
3.2.7	Inert Waste Landfill
3.2.8	Major Class III Landfill
3.2.9	Maximum Permitted Daily Capacity
3.2.10	Minor Class III Landfill
3.2.11	Permitted Disposal Capacity or Permitted Capacity
3.2.12	Permitted Solid Waste Landfill or Permitted Landfill
3.2.13	Permitted Transformation Facility
3.2.14	Solid Waste Disposal Facility
3.2.15	Solid Waste Landfill Facility
3.2.16	Transformation (Waste-to-Energy) Facility

3.3 SPECIFIC REQUIREMENTS

3.2.17 Waste-to-Energy

3.4 INTRODUCTION

3.5 EXISTING CLASS III LANDFILLS IN LOS ANGELES COUNTY

3.5.1 Major Class III Landfills3.5.2 Minor Class III Landfills

3.6 EXISTING INERT WASTE LANDFILLS IN LOS ANGELES COUNTY

- 3.6.1 Permitted Inert Waste Landfills
- 3.6.2 Inert Debris Engineered Fill Operations

3.7 EXISTING TRANSFORMATION (WASTE-TO-ENERGY) FACILITIES IN LOS ANGELES COUNTY

3.8 TABLES, FACT SHEETS, AND FIGURES

TABLES

Table 3-1 Summary of Existing Class III Landfills, Permitted Inert Waste Landfills, and Transformation (Waste-to-Energy)

Facilities in Los Angeles County

Table 3-2 Summary of Existing Inert Waste Landfills in Los Angeles

County (As of December 2010)

FACT SHEETS

Fact Sheet 3-1	Antelope Valley Recycling and Disposal Facility
Fact Sheet 3-2	Calabasas Landfill
Fact Sheet 3-3	Chiquita Canyon Landfill
Fact Sheet 3-4	Lancaster Landfill and Recycling Center
Fact Sheet 3-5	Puente Hills Landfill
Fact Sheet 3-6	Scholl Canyon Landfill
Fact Sheet 3-7	Sunshine Canyon City/County Landfill
Fact Sheet 3-8	Burbank Landfill No. 3
Fact Sheet 3-9	Pebbly Beach Landfill
Fact Sheet 3-10	San Clemente Island Landfill
Fact Sheet 3-11	Savage Canyon Landfill
Fact Sheet 3-12	Azusa Land Reclamation Landfill
Fact Sheet 3-13	Commerce Refuse-to-Energy Facility (CREF)
Fact Sheet 3-14	Southeast Resource Recovery Facility (SERRF)

FIGURES

Figure 3-1	Antelope Valley Recycling and Disposal Facility
Figure 3-2	Calabasas Landfill
Figure 3-3	Chiquita Canyon Landfill
Figure 3-4	Lancaster Landfill and Recycling Center
Figure 3-5	Puente Hills Landfill
Figure 3-6	Scholl Canyon Landfill
Figure 3-7	Sunshine Canyon City/County Landfill
Figure 3-8	Burbank Landfill No. 3
Figure 3-9	Pebbly Beach Landfill
Figure 3-10	San Clemente Island Landfill
Figure 3-11	Savage Canyon Landfill
Figure 3-12	Azusa Land Reclamation Landfill
Figure 3-13	Commerce Refuse-to-Energy Facility
Figure 3-14	Southeast Resource Recovery Facility

Figure 3-15 Locations of Existing Class III Landfills, Permitted Inert

Waste Landfills, and Transformation (Waste-to-Energy)

Facilities in Los Angeles County

Figure 3-16 Locations of Existing Inert Waste Landfills/Inert Debris

Disposal in Los Angeles County

CHAPTER 4 CURRENT DISPOSAL RATE AND ASSESSMENT OF DISPOSAL CAPACITY NEEDS

4.1 PURPOSE

4.2 **DEFINITIONS**

4.2.1 AUJUSUITETIL IVIEUTO	4.2.1	Adjustment Method
----------------------------	-------	-------------------

- 4.2.2 Alternative Technology
- 4.2.3 Available Out-of-County Disposal Capacity
- 4.2.4 Base-Year Generation
- 4.2.5 Biomass Processing
- 4.2.6 Class III Landfill Disposal Demand
- 4.2.7 Conversion/Recovery Technology
- 4.2.8 Daily Disposal Capacity Reserve
- 4.2.9 Daily Disposal Capacity Shortfall
- 4.2.10 Daily Disposal Demand
- 4.2.11 Disposal
- 4.2.12 Disposal Capacity
- 4.2.13 Disposal Facility
- 4.2.14 Disposal Site
- 4.2.15 Export Need or Out-of-County Disposal Need
- 4.2.16 In-Place Solid Waste Density or Compaction Rate
- 4.2.17 Inert Debris Engineered Fill Operation
- 4.2.18 Inert Waste Landfill
- 4.2.19 Planning Period
- 4.2.20 Permitted Capacity
- 4.2.21 Permitted Solid Waste Landfill or Permitted Landfill
- 4.2.22 Solid Waste Disposal
- 4.2.23 Solid Waste Disposal Capacity
- 4.2.24 Transformation (Waste-to-Energy) Facility
- 4.2.25 Waste-to-Energy Facility

4.3 SPECIFIC REQUIREMENTS

4.4 DISPOSAL QUANTITIES AND CAPACITY

- 4.4.1 Disposal Quantities and Capacity Methodology
 - 4.4.1.1 1990 Disposal Quantities and Capacity Study

		4.4.1.2 4.4.1.3 4.4.1.4	1 0 7
	4.4.2	1990 Dis	posal Quantities and Capacity
		4.4.2.1 4.4.2.2	1990 Disposal Quantities 1990 Remaining Permitted Disposal Capacity
	4.4.3	1990-201	10 Disposal Trends
		4.4.3.1 4.4.3.2 4.4.3.3 4.4.3.4	1990-1995 Disposal Trends 1996-2000 Disposal Trends 2001-2005 Disposal Trends 2006-2010 Disposal Trends
	4.4.4	2010 Dis	posal Quantities and Capacity
		4.4.4.1 4.4.4.2	2010 Disposal Quantities Remaining Permitted Disposal Capacity as of December 31, 2010
4.5			EXISTING REMAINING PERMITTED IN-COUNTY ACITY (AS OF DECEMBER 31, 2010)
	4.5.1 4.5.2 4.5.3 4.5.4 4.5.5	Transforr Conversi	Landfills ste Landfills mation (Waste-to-Energy) Facilities on/Recovery Technology Facilities Processing Facilities
4.6	OUT-O	F-COUNT	Y DISPOSAL
	4.6.1 4.6.2	Introducti Available	ion Out-of-County Disposal Capacity
4.7	IN-COL	JNTY TRA	INSFER AND PROCESSING FACILITIES' CAPACITY
4.8	DISPO	SAL CAP	ACITY NEED ANALYSIS
	4.8.1 4.8.2 4.8.3 4.8.4	Disposal Class III	Capacity Need Analysis Capacity Need Analysis Methodology Landfill Restrictions ill 1016 (SB 1016)

4.9 DISPOSAL NEED PROJECTIONS FOR THE PLANNING PERIOD (2010 – 2025)

- 4.9.1 Base Year Waste Generation and Disposal
- 4.9.2 Waste Generation Projection Methodology
 - 4.9.2.1 Description of the Adjustment Methodology
- 4.9.3 Waste Generation Projection Factors
 - 4.9.3.1 Distribution of Waste Generation by Sector
 - 4.9.3.2 Population Projections
 - 4.9.3.3 Employment
 - 4.9.3.4 Taxable Sales
- 4.9.4 Waste Generation Projections for the Planning Period (2010-2025)

4.10 DISPOSAL CAPACITY NEED ANALYSIS SCENARIOS

- 4.10.1 Scenario No. 1 Status Quo Scenario
- 4.10.2 Scenario No. 2 Increase in Diversion Rate up to 65% by 2025
- 4.10.3 Scenario No. 3 Utilization of Alternative Technology Facility Capacity up to 2,300 tpd by 2025
- 4.10.4 Scenario No. 4 In-County Class III Landfill Expansions
- 4.10.5 Scenario No. 5 Increase in Exports to Available Out-of-County Disposal Facilities up to 12,000 tpd by 2025
- 4.10.6 Scenario No. 6 Maximizing Diversion Rate up to 75% by 2025 (complies with AB 341 Goal)
- 4.10.7 Scenario No. 7 Increase Utilization of Alternative Technology Facility Capacity (up to 8,800 tpd by 2025)
- 4.10.8 Scenario No. 8 Full Utilization of Out-of-County Disposal Facilities (up to 19,000 tpd by 2025)
- 4.10.9 Scenario No. 9 Best Case (All Solid Waste Management Options Considered Become Available)
- 4.10.10 Impact of Closure of Puente Hills Landfill's Green Waste Alternative Daily Cover Program in the Disposal Capacity Need Analysis

4.11 SUMMARY OF SCENARIO ANALYSIS

4.12 **SUMMARY OF FINDINGS**

4.13 CONCLUSIONS

4.14 TABLES AND FIGURES

TABLES

Table 4-1	Remaining Permitted Combined Disposal Capacity of Existing Solid Waste Class III Landfills in Los Angeles County (As of January 1990 and January 1991)
Table 4-2	Summary of Yearly Solid Waste Disposal Quantities (in Tons) for Los Angeles County from 1990 – 2010
Table 4-3	Summary of Yearly Solid Waste Disposal Quantities (in Cubic Yards) for Los Angeles County from 1990 – 2010
Table 4-4	Disposal Capacity of Inert Waste Landfills Located in Los Angeles County (As of December 31, 2010)
Table 4-5	Solid Waste Generation by Los Angeles County Jurisdictions in 2010 based on Class III Landfills and Transformation Facilities Disposal Quantities (Excluding Inert Waste Landfills)
Table 4-6	Los Angeles County Solid Waste Generation Projections for the Planning Period (2010-2025)
Table 4-7	Los Angeles County Solid Waste Disposal Capacity Requirements for the Planning Period (2010-2025) (Excluding Disposal Capacity Provided by Permitted Inert Waste Landfills)
Table 4-8	Remaining Permitted Combined Disposal Capacity of Existing Solid Waste Disposal Facilities in Los Angeles County (As of December 31, 2010)
Table 4-9	Summary of Description of Disposal Capacity Need Analysis Scenarios Assuming AB 939 Diversion is Fully Implemented and No New Class III Landfills in Los Angeles County during
	the Planning Period

Table 4-11	Scenario No. 2 – Increase in Diversion Rate (up to 65% by 2025)
Table 4-12	Scenario No. 3 – Utilization of Alternative Technology Facility Capacity (up to 2,300 tpd by 2025)
Table 4-13	Scenario No. 4 – In-County Class III Landfills Expansions
Table 4-14	Scenario No. 5 – Increase in Exports to Available Out-of-County Disposal Facilities (up to 12,000 tpd by 2025)
Table 4-15	Scenario No. 6 – Maximizing Diversion Rate (up to 75% by 2025 – Complies with AB 341 Goal)
Table 4-16	Scenario No. 7 – Increase in Alternative Technology Facility Capacity (up to 3,500 tpd by 2025)
Table 4-17	Scenario No. 8 – Full Utilization of Out-of-County Disposal Capacity (up to 19,000 tpd by 2025)
Table 4-18	Scenario No. 9 – Best Case (All Solid Waste Management Options Considered Become Available)
Table 4-19	Base Year Projections on SB 1016 Limit
Table 4-20	Comparison of Daily Disposal Demand and SB 1016 Disposal Limit (Status Quo)
Table 4-21	Comparison of Daily Disposal Demand and SB 1016 Disposal Limit (Maximizing Diversion Rate (up to 75% Diversion Rate))
<u>FIGURES</u>	
Figure 4-1	Graph of Los Angeles County Population and Solid Waste Disposal Trend (1990-2010)
Figure 4-2	Los Angeles County Solid Waste Disposal in 2010 (January 1, 2010 – December 31, 2010 in tons per year (typ))
Figure 4-3	Graph of Population, Employment, Taxable Sales, and Solid Waste Generation Projection in Los Angeles County
Figure 4-4	Graph of Solid Waste Disposal Projections for each Scenario

Figure 4-5	Los Angeles County Projected Solid Waste Disposal in 2025 for each Scenario for the Planning Period (2010-2025)
Figure 4-6	Graph of In-County Class III Landfills Remaining Disposal Capacity for each Disposal Capacity Need Analysis Scenario
Figure 4-7	Graph of Los Angeles County Solid Waste Disposal Export Need for each Disposal Capacity Need Analysis Scenario
Figure 4-8	Graph of Class III Landfills Daily Disposal Capacity Shortfall (Reserve) for each Disposal Capacity Need Analysis Scenario
Figure 4-9	Disposal Projection for Countywide Areas

4.15 APPENDIX

Appendix 4-A Los Angeles County Solid Waste Management

Committee/Integrated Waste Management Task Force's Report (dated March 28, 1991) to the California Integrated Waste Management Board – on the Remaining Permitted Disposal Capacity of Solid Waste Facilities in Los Angeles

County

CHAPTER 5 ALTERNATIVE TECHNOLOGIES

5.1 PURPOSE

5.2 **DEFINITIONS**

- 5.2.1 Air Pollutants
- 5.2.2 Alternative Fuels
- 5.2.3 Alternative Technology
- 5.2.4 Ambient Air
- 5.2.5 Best Available Control Technology (BACT)
- 5.2.6 Biomass Combustion
- 5.2.7 Biomass Conversion
- 5.2.8 Biomass Processing
- 5.2.9 Combustion
- 5.2.10 Conversion/Recovery Technologies
- 5.2.11 Emission Offset
- 5.2.12 Emission Standard
- 5.2.13 Endothermic
- 5.2.14 Exothermic
- 5.2.15 Fermentation

5.2	16	Gasification
U.Z.	. IO	Gasilication

- 5.2.17 Incineration
- 5.2.18 Nitrogen Oxides (NO_x)
- 5.2.19 Oxidation
- 5.2.20 Particulate Matter (PM)
- 5.2.21 Particulate Matter Less than 10 Microns (PM₁₀)
- 5.2.22 Post-Recycled
- 5.2.23 Pyrolysis
- 5.2.24 Residual Solid Waste
- 5.2.25 Transformation
- 5.2.26 Waste-to-Energy

5.3 SPECIFIC REQUIREMENTS

5.4 INTRODUCTION

5.5 ALTERNATIVE TECHNOLOGY DEVELOPMENTS IN LOS ANGELES COUNTY

- 5.5.1 Los Angeles County Efforts
 - 5.5.1.1 Southern California Conversion Technology Development Project
- 5.5.2 City of Los Angeles Alternative Technology Efforts

5.6 COMBUSTION SYSTEMS

- 5.6.1 Combustion
 - 5.6.1.1 Fluidized Bed Combustion
 - 5.6.1.2 Mass-Fired Combustion Systems
 - 5.6.1.2.1 Commerce Refuse-to-Energy Facility
 - 5.6.1.2.2 Southeast Resource Recovery Facility
 - 5.6.1.3 Refuse-Derived Fuel (RDF)-Fired Combustion Systems
 - 5.6.1.4 Rotary Cascading Bed Combustion
- 5.6.2 Biomass Combustion

5.7 CONVERSION TECHNOLOGY SYSTEMS

5.7.1 Thermal Conversion Processes

		5.7.1.1	Pyrolysis Sys	stems
		5.7.1.2	Gasification	Systems
			5.7.1.2.1 5.7.1.2.2 5.7.1.2.3 5.7.1.2.4	Vertical Fixed Bed Gasification System Horizontal Fixed Bed Gasification System Fluidized Bed Gasification Plasma Arc Gasification System
	5.7.2	Biologica	I Conversion I	Processes
		5.7.2.1 5.7.2.2	Anaerobic D Aerobic Dige	-
	5.7.3	Chemical	Conversion F	Processes
		5.7.3.1	Acid Hydroly	sis
			5.7.3.1.1 Blu	ueFire Renewables
		5.7.3.2	Anaerobic Fe	ermentation
	5.7.4	Combinat	tion Conversion	on Processes
		5.7.4.1	Thermal Dep	polymerization (TDP)
5.8		ATORY, 1 L CHALLE	•	ENVIRONMENTAL, ECONOMIC, AND
	5.8.2 5.8.3 5.8.4	Regulator Technica Environm Economic Social Iss	l Issues ental Issues c Issues	
5.9	FLOW	CHARTS,	TABLES, AN	D FIGURES
	FLOW	CHARTS		

TABLES

Flowchart 5-1

Table 5-1 Comparison of Conversion Technology Systems

Alternative Technology Processes

	Table 5-2	2	Conversion Technology Comparison Table
	FIGURE	<u>s</u>	
	Figure 5-	-1	Commerce Refuse-to-Energy Facility (CREF) in City of Commerce, California, USA Schematic Process Diagram
	Figure 5-	-2	Southeast Resource Recovery Facility (SERRF) in City of Long Beach, California, USA Schematic Process Diagram
5.10	BIBLIOG	RAPHY	
5.11	APPEND	DICES	
		Appendix 5-A	Preliminary Siting Assessment Conversion
	Technol	ogies in	Los Angeles County
	Appendi	ix 5-B	RENEW LA Plan of the City of Los Angeles
СНАР	TER 6 FAC	CILITY SI	ITING CRITERIA
6.1	PURPOS	SE	
6.2	DEFINITIONS		
	6.2.2 6.2.3 6.2.4 6.2.5 6.2.6 6.2.7 6.2.8 6.2.9 6.2.10 6.2.11 6.2.12 6.2.13 6.2.14 6.2.15	Air Qualit Air Qualit Best Avai California Clean Air Emission Emission Environm Joint Tec New Sou Non-Attai Particulat Particulat	ion Control District (APCD) y Management District (AQMD) y Management Plan (AQMP) ilable Control Technology (BACT) Ambient Air Quality Standards (CAAQS) Act Offset (also known as Emission Trade-Off) Standard iental Justice hnical Document (JTD) rce Review (NSR) inment Area te Matter (PM) te Matter Less than 10 Microns (PM ₁₀) formation Meeting

6.2.17 Report of Disposal Site Information (RDSI)

6.2.18 Report of Facility Information (RFI) Solid Waste Disposal Facility

6.2.19

		Stationar Volatile C	•	ounds (VOCs)
6.3	SPECIF	FIC REQUIREMENTS		
6.4	SITING	AND PER	RMITTING	
	6.4.1 6.4.2	Siting Permitting	g	
		6.4.2.2	Overview Ministerial Po Discretionary	
6.5				DENVIRONMENTAL JUSTICE TING AND PERMITTING PROCESS
		Overview Public Pa	rticipation	
		6.5.2.2 6.5.2.3	Public Inform Public Educa Community I Community I Public Partic	ation Relations nvolvement
	6.5.3	Public Pa	articipation Pro	ograms
		6.5.3.1 6.5.3.2	Overview Process	
			6.5.3.2.1 6.5.3.2.2 6.5.3.2.3	Identification of Issues and Participants Plan Development Public Participation
6.6	PERMI	TS		
	6.6.1 6.6.2	Permitting Land Use	•	

Permitting Requirements
Permitting Administrative Process

California Regional Water Quality Control Board

Regulatory Overview

6.6.3

6.6.2.1

6.6.2.2 6.6.2.3

	6.6.3.1 6.6.3.2 6.6.3.3	Regulatory Overview Water Quality Control Plans Subtitle D of the Federal Resource Conservation and		
	6.6.3.4	Recovery Act Waste Discharge Requirements and National Pollutant Discharge Elimination Systems		
		6.6.3.4.1 Permitting Requirements6.6.3.4.2 Administrative Process6.6.3.4.3 Appeals Process		
6.6.4	Air Qualit	y Management District		
	6.6.4.1 6.6.4.2	Regulatory Overview Air Quality Management Plan		
6.6.5	Finding of Conformance			
6.6.6	Solid Waste Facility Permit			
	6.6.6.1 6.6.6.2 6.6.6.3	Permitting Requirements		
6.6.7	California	a Department of Fish and Game		
	6.6.7.1	Lake and Streambed Alteration Agreement		
6.6.8	Other Agencies			
TABLES, FIGURES, AND FLOWCHARTS				
TABLE	<u>s</u>			
Table 6A-1		Summary of Siting Criteria and Siting Factors		

Table 6A-1	Summary of Siting Criteria and Siting Factors
Table 6A-2	Solid Waste Disposal and Transformation Facility Siting Criteria Objectives and Factors
Table 6B-1	List of Regulating, Permitting, and Responsible Agencies

FIGURES

6.7

Figure 6B-1 South Coast Air Quality Management District (Map)

	Figure 6B-2	Regional Water Quality Control Board Jurisdiction (Map)
	FLOWCHARTS	
	Flowchart 6-1	Solid Waste Disposal Facility Siting Process
	Flowchart 6-2	Land Use Permit (LUP)/Conditional Use Permit (CUP) Process
	Flowchart 6-3	Waste Discharge Requirement (WDRs) Permit Process
	Flowchart 6-4	National Pollution Discharge Elimination System (NPDES Permit Process
	Flowchart 6-5	Air Quality Permit Process
	Flowchart 6-6	Solid Waste Facility Permit (Full Permit) Process
	Flowchart 6-7	California Environmental Quality Act (CEQA) Process
6.8	APPENDICES	
	Appendix 6-A	Solid Waste Disposal and Transformation Facility Siting Criteria
	Appendix 6-B	List of Regulatory Agencies

CHAPTER 7 PROPOSED IN-COUNTY FACILITY LOCATIONS AND DESCRIPTIONS

7.1 **PURPOSE**

7.2 **DEFINITIONS**

- 7.2.1 Alternative Technology
- 7.2.2 Biomass Processing
- 7.2.3 Class III Landfill
- Conversion/Recovery Technologies 7.2.4
- 7.2.5 Expansion
- 7.2.6 Inert Waste Landfill
- 7.2.7 Inert Debris Engineered Fill Operation (IDEFO)
- Transformation (Waste-to-Energy) Facility 7.2.8
- 7.2.9 Waste-to-Energy Facility

SPECIFIC REQUIREMENTS 7.3

7.4 INTRODUCTION

7.5 CLASS III LANDFILLS

- 7.5.1 Potential New Class III Landfills
- 7.5.2 Potential Expansions of Existing Class III Landfills
 - 7.5.2.1 Chiquita Canyon Landfill Expansion
 - 7.5.2.2 Lancaster Landfill and Recycling Center Expansion
 - 7.5.2.3 Savage Canyon Landfill Expansion
 - 7.5.2.4 Scholl Canyon Landfill Expansion

7.6 INERT WASTE LANDFILLS

7.6.1 Potential New Inert Waste Landfills

7.7 TRANSFORMATION (WASTE-TO-ENERGY) FACILITIES

- 7.7.1 Potential New Transformation (Waste-to-Energy) Facilities
- 7.7.2 Potential Expansions of Existing Transformation (Waste-to-Energy) Facilities

7.8 ALTERNATIVE TECHNOLOGY FACILITIES

- 7.8.1 Potential New Alternative Technology Facilities
- 7.8.2 Potential Expansions of Alternative Technology Facilities

7.9 BIOMASS PROCESSING FACILITIES

7.10 TABLES, FACT SHEETS, AND FIGURES

TABLES

Table 7-1	Summary of Potential Expansions of Existing Class III
	Landfills and Permitted Inert Waste Landfills in Los Angeles
	County
Table 7-2	Potential Locations for a Conversion /Recovery Technology

Demonstration Facility Outline Los Angeles County

Table 7-3 List of Permitted Major Materials Recovery Facilities,

Transfer Stations, and CDI Debris Processing Facilities in

Los Angeles County

Table 7-4 Proposed Potential Locations for Alternative Technology

Facilities in Los Angeles County

FACT SHEETS

Fact Sheet 7-1 Fact Sheet 7-2 Fact Sheet 7-3 Fact Sheet 7-4	Chiquita Canyon Landfill Expansion Lancaster Landfill and Recycling Center Expansion Savage Canyon Landfill Expansion Scholl Canyon Landfill Expansion
<u>FIGURES</u>	
Figure 7-1	Chiquita Canyon Landfill Expansion
Figure 7-2	Lancaster Landfill and Recycling Center Expansion
Figure 7-3	Savage Canyon Landfill Expansion
Figure 7-4	Scholl Canyon Landfill Expansion
Figure 7-5	Locations of Existing Class III Landfills, Permitted Inert Waste Landfills, and Transformation (Waste-to-Energy) Facilities in Los Angeles County with Potential Expansion
Figure 7-6	Locations of Major Materials Recovery Facilities, Transfer Stations, and CDI Debris Processing Facilities in Los Angeles County
Figure 7-7	Areas Potentially Suitable for Siting Alternative Technology Facilities in Los Angeles County

CHAPTER 8 GENERAL PLAN CONSISTENCY

8.2.1 Alternative Technology

8.1 PURPOSE

8.2 **DEFINITIONS**

8.2.2	Biomass Processing
8.2.3	Class III Landfills
8.2.4	Expansion
8.2.5	Inert Waste Landfill
8.2.6	Landfill
8.2.7	Reserved Site
8.2.8	Tentatively Reserved Site
8.2.9	Transformation (Waste-to-Energy) Facility

8.3 SPECIFIC REQUIREMENTS

8.4 RESERVED SITES

8.4.1 Class III Landfills

3.4.1.1	Chiquita Canyon Landfill Expansion
3.4.1.2	Lancaster Landfill and Recycling Center Expansion
3.4.1.3	Savage Canyon Landfill Expansion
8.4.1.4	Scholl Canyon Landfill Expansion

8.4.2	Inert Waste Landfills
8.4.3	Transformation (Waste-to-Energy) Facilities
8.4.4	Alternative Technology Facilities
8.4.5	Biomass Processing Facilities

8.5 TENTATIVELY RESERVED SITES

8.5.1	Class III Landfills
8.5.2	Inert Waste Landfills
8.5.3	Transformation (Waste-to-Energy) Facilities
8.5.4	Alternative Technology Facilities
8.5.5	Biomass Processing Facilities

8.6 TABLES

Table 8-1	Summary of the Current Status of Potential Expansions of
	Existing Class III Landfills in Los Angeles County

Table 8-2 Summary of the Land Use Permit, Environmental Document, and General Plan Consistency for the Proposed Expansions of Existing Class III Landfills in Los Angeles County

CHAPTER 9 OUT-OF-COUNTY DISPOSAL

9.1 PURPOSE

9.2 **DEFINITIONS**

- 9.2.1 Available Out-of-County Disposal Capacity
- 9.2.2 Construction, Demolition, and Inert (CDI) Debris Processing Facility
- 9.2.3 Disposal Capacity Need
- 9.2.4 Daily Disposal Capacity Shortfall
- 9.2.5 Disposal Facility
- 9.2.6 Export Agreement
- 9.2.7 Export Need/Out-of-County Disposal Capacity Need
- 9.2.8 Flow Controls
- 9.2.9 Host Fees
- 9.2.10 Intermodal
- 9.2.11 Intermodal Facility
- 9.2.12 Materials Recovery Facility (MRF)
- 9.2.13 Planning Period
- 9.2.14 Rail-Loading Facilities
- 9.2.15 Rail Yards
- 9.2.16 Railroad Yards
- 9.2.17 Residual Solid Waste

- 9.2.18 Solid Waste
- 9.2.19 Solid Waste Disposal
- 9.2.20 Solid Waste Disposal Capacity
- 9.2.21 Solid Waste Station
- 9.2.22 Tipping Fee
- 9.2.23 Transfer Station
 - 9.2.24 Wasteshed
- 9.3 SPECIFIC REQUIREMENTS
- 9.4 INTRODUCTION
- 9.5 ELEMENTS OF THE OUT-OF-COUNTY DISPOSAL OPTION
- 9.6 TRANSPORTATION MODES FOR EXPORTING SOLID WASTE TO OUT-OF-COUNTY LANDFILLS
 - 9.6.1 Truck Transport
 - 9.6.2 Rail Transport Waste-by-Rail System
 - 9.6.2.1 Waste-by-Rail System in Los Angeles County
- 9.7 IN-COUNTY INFRASTRUCTURE NECESSARY FOR ACCESSING OUT-OF-COUNTY DISPOSAL CAPACITY
 - 9.7.1 In-County Materials Recovery Facilities; Transfer Stations; and Construction, Demolition, and Inert Debris Processing Facilities Capacity
 - 9.7.2 Materials Recovery Facilities; Transfer Stations; and Construction, Demolition, and Inert Debris Processing Facilities with Potential Railroad Yard Capabilities
 - 9.7.2.1. Puente Hills Materials Recovery Facility County Unincorporated Area
 - 9.7.2.2 Innovative Waste Control Transfer Station City of Vernon
 - 9.7.3 Railroad Yards in Los Angeles County
 - 9.7.4 Railroad Yards in Los Angeles County with Potential Solid Waste Management Capability
 - 9.7.4.1 Puente Hills Intermodal Facility City of Industry
- 9.8 OUT-OF-COUNTY LANDFILLS POTENTIALLY AVAILABLE FOR OUT-OF-COUNTY DISPOSAL
 - 9.8.1 Out-of-County Class III Landfills (Located in California) Potentially Available for Out-of-County Disposal

- 9.8.1.1 Identification of Existing and Proposed New Out-of-County Class III Landfills (Located in California) Potentially Available for Out-of-County Disposal
- 9.8.1.2 Proposed New Out-of-County Class III Landfills (Located in California) Potentially Available for Out-of-County Disposal
- 9.8.1.3 Existing Out-of-County Class III Landfills (Located in California)
 Potentially Available for Out-of-County Disposal
- 9.8.1.4 Expansion of the Existing Class III Landfills (Located in California) Potentially Available for Out-of-County Disposal

9.9 OTHER POTENTIALLY AVAILABLE OUT-OF-COUNTY SOLID WASTE FACILITIES

9.10 LIMITATIONS OF THE OUT-OF-COUNTY DISPOSAL OPTION

- 9.10.1 Flow Control Restrictions/Bans on the Importation of Solid Waste
 - 9.10.1.1 Solid Waste Import Restrictions by Los Angeles County9.10.1.2 Solid Waste Import Restrictions by Out-of-County Landfills and Jurisdictions
- 9.10.2 Export Agreement
- 9.10.3 Economic Factors
- 9.10.4 Environmental Factors
 - 9.10.4.1 Waste-by-Truck 9.10.4.2 Waste-by-Rail

9.11 TABLES, FACT SHEETS, FIGURES, AND FLOWCHARTS

TABLES

- Table 9-1 Summary of Existing and Proposed New Out-of-County Class III Landfills (Located in California) Potentially Available for Out-of-County Disposal
- Table 9-2 Summary of the Status of the Land Use Permit and the Environmental Document for the Proposed New and Expansion of Existing Out-of-County Class III Landfills (Located in California) Potentially Available for Out-of-County Disposal
- Table 9-3 Solid Waste Flow Control (Import) Restrictions for Existing and Proposed New Out-of-County Class III Landfills (Located in California) Potentially Available for Out-of-County Disposal

- Table 9-4 Summary of Out-of-County Class III Landfills Previously or Currently Used for Los Angeles County Solid Waste Export as of January 1, 2010
- Table 9-5 List of Permitted Materials Recovery Facilities; Transfer Stations; and Construction, Demolition, and Inert (CDI) Debris Processing Facilities in Los Angeles County

Table 9-6 List of Railroad Yards in Los Angeles County

FACT SHEETS

- Fact Sheet 9-1 Eagle Mountain Landfill (Proposed New Landfill)
- Fact Sheet 9-2 Mesquite Regional Landfill (Existing But Not Yet Operational)

FIGURES

- Figure 9-1 Eagle Mountain Landfill
- Figure 9-2 Mesquite Regional Landfill

FLOWCHARTS

Flowchart 9-1 Waste-By-Rail System Overview

CHAPTER 10 FINDING OF CONFORMANCE

10.1 PURPOSE

10.2 DEFINITIONS

- 10.2.1 California Environmental Quality Act (CEQA)
- 10.2.2 Expansion
- 10.2.3 Significant Change

10.3 SPECIFIC REQUIREMENTS

- 10.4 REGULATORY OVERVIEW
- 10.5 APPLICABILITY OF FINDING OF CONFORMANCE
- 10.6 FINDING OF CONFORMANCE PROPOSAL SUBMITTAL REQUIREMENTS

10.7 FINDING OF CONFORMANCE ADMINISTRATIVE PROCESS

10.7.1 Finding of Conformance Notice Process

- 10.7.2 Finding of Conformance Review Process
- 10.7.3 Finding of Conformance Approval Process
 - 10.7.3.1 Issuance of Finding of Conformance
 - 10.7.3.2 Denial of Finding of Conformance
- 10.7.4 Revocation of Finding of Conformance
- 10.7.5 Local Enforcement Agency/California Department of Resources Recycling and Recovery Notification

10.8 TABLES AND FLOWCHARTS

TABLES

Table 10-1 Finding of Conformance (FOC) Proposal Submittal Requirements

- A. Facility Owner/Operator Information
- B. Facility Site Information
- C. Facility Operation Information
- D. Facility and/or Project Expansion Information
- E. Ancillary Facility's Operations and Other Permitted Uses at the Site
- F. Flow Control Information
- G. Mitigation Measures and Programs
- H. Permits and Documentation
- I. Facility Maps and Plans
 - 1. All Facilities
 - 2. Landfill Facilities
 - 3. Other Facilities

FLOWCHART

Flowchart 10-1 Finding of Conformance (FOC) Process