Table of Contents

VOLUME 1 – ENVIRONMENTAL IMPACT REPORT
PART 1 OF 2
(UNDER SEPARATE COVER)

Section 1.0 Summary
1.1 Background on the General Plan Update Project ............................................................... 1.0-2
1.2 Summary of the Proposed Project, GPA No. 960 ............................................................... 1.0-7
1.3 Summary of the Public Review and Deliberation Process ................................................ 1.0-10
1.4 Issues to Be Resolved and Area of Potential Controversy ............................................... 1.0-14
1.5 Summary of Alternatives, Environmental Impacts and Mitigation ..................................... 1.0-16

List of Tables
Table 1.0-A Proposed Compounds of GPA No. 960 ........................................................................ 1.0-7
Table 1.0-B Summary of Proposed Project Impacts and Mitigation ........................................... 1.0-27

List of Figures
Figure 1.1 Regional Location Map ................................................................................................. 1.0-5

Section 2.0 Introduction
2.1 Purpose of the Program Environmental Impact Report ...................................................... 2.0-1
2.2 Program EIR Scope, Contents and Organization ................................................................ 2.0-3
2.3 Purpose of the Program Environmental Impact Report ...................................................... 2.0-6
2.4 Document Availability ........................................................................................................... 2.0-13
List of Tables

Table 2.0-A CEQA Topics and Locations within EIR No. 521 ......................................................... 2.0-5
Table 2.0-B Libraries in Riverside County Receiving Project Documents ........................................ 2.0-14

Section 3.0 Project Description

3.1 Introduction ......................................................................................................................... 3.0-1
3.2 Regional Location and Setting ............................................................................................ 3.0-1
3.3 Project Background ............................................................................................................. 3.0-3
3.4 Project Objectives ............................................................................................................... 3.0-4
3.5 Project Components .......................................................................................................... 3.0-11
3.6 Consultations and Discretionary Actions .......................................................................... 3.0-29

List of Tables

Table 3.0-A Incorporated Cities in Riverside County ....................................................................... 3.0-2
Table 3.0-B Summary of Airport Land Use Consistency Changes ................................................ 3.0-13
Table 3.0-C General Plan Land Use Designations and Foundation Components ......................... 3.0-19
Table 3.0-D Lands Proposed for Open Space – Conservation Habitat Designation ....................... 3.0-20
Table 3.0-E Criteria-Based of Parcel-Specific Land Use Changes ................................................. 3.0-21

List of Figures

Figure 3.1 Regional Location Map ................................................................................................. 3.0-5
Figure 3.2 Key Regions of Interest for GPA No. 960 (Western County) ........................................ 3.0-7
Figure 3.3 Key Regions of Interest for GPA No. 960 (Eastern County) ........................................ 3.0-9

Section 4.1 Environmental Assumptions and Methods

4.1.1 Introduction ......................................................................................................................... 4.1-1
4.1.2 Assumptions and Methodology for Projections .................................................................. 4.1-2
4.1.3 Riverside County Build Out Projections ........................................................................... 4.1-7
4.1.4 Methodology for Environmental Impact Analysis .............................................................. 4.1-8

List of Tables

Table 4.1-A Dwelling Units per Acre Midpoint Assumptions ............................................................ 4.1-4
Table 4.1-B Area-Specific Population Factors ................................................................................ 4.1-5
Table 4.1-C Floor-to-Area Ratio Midpoint Assumptions ............................................................... 4.1-6
Table 4.1-D Employment Factors ................................................................................................ 4.1-6
Table 4.1-E Projections for Existing General Plan Build Out by Area Plan .................................... 4.1-7
Table 4.1-F Projections by Area Plan for General Plan Build Out with the Project ....................... 4.1-8
List of Tables

Table 4.3-A  Population Growth Trends, 1997-2007 ................................................................. 4.3-3
Table 4.3-B  Housing Growth Trends, 1990-2007 ................................................................. 4.3-4
Table 4.3-C  Housing Unit Building Permits Issued, 1997-2007 ................................................. 4.3-4
Table 4.3-D  Regional Housing Needs Assessment, 2006-2014 .................................................. 4.3-5
Table 4.3-E  Annual Average Payroll Employment by Industry, Riverside County, 1997-2007 .... 4.3-5
Table 4.3-F  Theoretical Build Out Projections (Land Use-Based Capacities) ......................... 4.3-13
Table 4.3-G  Comparison of Regional Projections ................................................................. 4.3-15

Section 4.4  Aesthetics and Visual Resources

4.4.1  Introduction ......................................................................................................................... 4.4-1
4.4.2  Existing Environmental Setting – Aesthetic and Visual Resources .................................... 4.4-1
4.4.3  Policies and Regulations Addressing Aesthetic and Visual Resources ................................. 4.4-11
4.4.4  Thresholds of Significance for Aesthetic and Visual Resources ........................................ 4.4-21
4.4.5  Effect of GPA No. 960 on the General Plan and on Aesthetic and Visual Resources .... 4.4-21
4.4.6  Aesthetic and Visual Resources - Impacts and Mitigation ................................................ 4.4-25
4.4.7  Significance After Mitigation for Aesthetic and Visual Resources .................................... 4.4-39

List of Tables

Table 4.4-A  Summary of Visual Character and General Changes .................................................. 4.4-4
Table 4.4-B  Summary of State and County Eligible and Designated Scenic Highways ................. 4.4-12

List of Figures

Figure 4.4.1  Countywide Palomar Restriction Zones A and B ...................................................... 4.4-7
Figure 4.4.2  Riverside County Scenic Highways .............................................................................. 4.4-9

Section 4.5  Agricultural and Forestry Resources

4.5.1  Introduction ......................................................................................................................... 4.5-1
4.5.2  Existing Environmental Setting - Agricultural and Forestry Resources ............................... 4.5-1
4.5.3  Policies and Regulations Addressing Agricultural and Forestry Resources ........................ 4.5-18
4.5.4  Thresholds of Significance for Agricultural and Forestry Resources .................................. 4.5-23
4.5.5  Effect of GPA No. 960 on the General Plan and on Agricultural and Forestry Resources 4.5-24
4.5.6  Agricultural and Forestry Resources - Impacts and Mitigation ........................................... 4.5-29
4.5.7  Significance After Mitigation for Agricultural and Forestry Resources ............................. 4.5-38
List of Tables

Table 4.5-A Cultivated Crop Production Statistics ................................................................. 4.5-3
Table 4.5-B Other Agricultural Product Valuation Data ......................................................... 4.5-3
Table 4.5-C Crop Valuation by Agricultural District ................................................................. 4.5-4
Table 4.5-D State-Designated Farmland Data for Riverside County ................................. 4.5-4
Table 4.5-E Project Effects on Agriculture Land Use Designations in the General Plan .... 4.5-26
Table 4.5-F Project Effects on Lands in Agricultural Use ...................................................... 4.5-27
Table 4.5-G Effects on State-Designated Farmlands ............................................................. 4.5-27
Table 4.5-H Project Relationship to Existing Agricultural Preserves ................................. 4.5-28

List of Figures

Figure 4.5.1 Agricultural Resources Map ............................................................................... 4.5-7
Figure 4.5.2 High Elevation Forestry Resources – Western Riverside County ................... 4.5-13
Figure 4.5.3 High Elevation Forestry Resources - Central & Eastern Riverside County .......... 4.5-15

Section 4.6 Air Quality

4.6.1 Introduction .................................................................................................................. 4.6-1
4.6.2 Existing Environmental Setting – Air Quality ............................................................... 4.6-1
4.6.3 Policies and Regulations Addressing Air Quality ....................................................... 4.6-14
4.6.4 Thresholds of Significance for Air Quality .................................................................. 4.6-40
4.6.5 Effect of GPA No. 960 on the General Plan and on Air Quality ................................. 4.6-41
4.6.6 Air Quality - Impacts and Mitigation ............................................................................. 4.6-48
4.6.7 Significance After Mitigation for Air Quality ............................................................... 4.6-74

List of Tables

Table 4.6-A Ambient Air Quality Reporting for Criteria Pollutants – SCAB (2007-2009) ....... 4.6-11
Table 4.6-B Ambient Air Quality Reporting for Criteria Pollutants – SSAB (2007-2009) ....... 4.6-12
Table 4.6-C Emission Thresholds for Air Basins in Riverside County ................................. 4.6-40
Table 4.6-D Typical Project Construction Emission Estimates ............................................. 4.6-43
Table 4.6-E Comparison of Unmitigated Project Operational Emissions – SCAQMD ......... 4.6-44
Table 4.6-F Comparison of Unmitigated Project Operational Emissions – MDAQMD ......... 4.6-45
Table 4.6-G Mitigated Net Project Operational Emissions – SCAQMD ............................... 4.6-46
Table 4.6-H Mitigated Net Project Operational Emissions – MDAQMD ............................... 4.6-46
Table 4.6-I Localized Significant Analysis for 5-Acre Site – Construction ......................... 4.6-47
Table 4.6-J Localized Significant Analysis for 5-Acre Site – Operational ............................. 4.6-47

List of Figures

Figure 4.6.1 Air Basins in Riverside County ........................................................................... 4.6-3
Section 4.7  Greenhouse Gases

4.7.1 Introduction ................................................................. 4.7-1
4.7.2 Existing Environmental Setting – Greenhouse Gases ............................................. 4.7-2
4.7.3 Policies and Regulations Addressing Greenhouse Gases ........................................ 4.7-9
4.7.4 Thresholds of Significance for Greenhouse Gases ....................................................... 4.7-38
4.7.5 Effect of GPA No. 960 on the General Plan and on Greenhouse Gases ................. 4.7-38
4.7.6 Greenhouse Gases - Impacts and Mitigation ............................................................... 4.7-49
4.7.7 Significance After Mitigation for Greenhouse Gases ................................................... 4.7-57

List of Tables
Table 4.7-A Existing Riverside County Landfills ................................................................. 4.7-4
Table 4.7-B Closed Riverside County Landfills ................................................................. 4.7-4
Table 4.7-C 2008 Net Total GHG Emissions for Unincorporated Riverside County .......... 4.7-8
Table 4.7-D Construction GHG Emissions – Residential Examples .................................. 4.7-39
Table 4.7-E 2020 BAU - Operational GHG Emissions Inventory ...................................... 4.7-40
Table 4.7-F 2020 Reduced GHG Emissions Inventory ....................................................... 4.7-43
Table 4.7-G 2020 Operational GHG Emissions – Scenario Comparisons ....................... 4.7-44
Table 4.7-H SB 375 Target Comparisons ........................................................................... 4.7-45
Table 4.7-I 2060 Operational GHG Emissions – Scenario Comparisons ....................... 4.7-47

List of Figures
Figure 4.7.1 2008 Greenhouse Gas Emissions in Unincorporated Riverside County .......... 4.7-8
Figure 4.7.2 2020 BAU Greenhouse Gas Emissions ............................................................. 4.7-42
Figure 4.7.3 2020 Reduced Scenario – Operational Greenhouse Gas Emissions ............. 4.7-44
Figure 4.7-4 Riverside County GHG Emissions with Reductions in Draft CAP and Post 2020 CAP4.7-48

Section 4.8  Biological Resources

4.8.1 Introduction ................................................................. 4.8-1
4.8.2 Existing Environmental Setting – Biological Resources ............................................. 4.8-1
4.8.3 Policies and Regulations Addressing Biological Resources ....................................... 4.8-44
4.8.4 Thresholds of Significance for Biological Resources .................................................. 4.8-57
4.8.5 Effect of GPA No. 960 on the General Plan and on Biological Resources ............. 4.8-57
4.8.6 Biological Resources - Impacts and Mitigation ......................................................... 4.8-68
4.8.7 Significance After Mitigation for Biological Resources .............................................. 4.8-97

List of Tables
Table 4.8-A Western Riverside County Natural Communities ............................................. 4.8-7
Section 4.10  Energy Resources

4.10.1  Introduction ....................................................................................................................... 4.10-1
4.10.2  Existing Environmental Setting – Energy Resources .......................................................... 4.10-2
4.10.3  Policies and Regulations Addressing Energy Resources ......................................................... 4.10-24
4.10.4  Thresholds of Significance for Energy Resources ................................................................. 4.10-33
4.10.5  Effect of GPA No. 960 on the General Plan and Energy Resources ..................................... 4.10-33
4.10.6  Energy Resources - Impacts and Mitigation ...................................................................... 4.10-39
4.10.7  Significance After Mitigation for Energy Resources ............................................................. 4.10-48

List of Tables
Table 4.10-A Summary of Electrical Production Facilities in Riverside County ............................... 4.10-3
Table 4.10-B SCE Electricity System Projects .................................................................................. 4.10-9
Table 4.10-C Imperial Irrigation District Electricity System Projects .............................................. 4.10-15
Table 4.10-D Electricity Consumption in Riverside County by Major Energy Provider .................. 4.10-21
Table 4.10-E Theoretical Annual Electricity Demand for Existing Uses of Land ............................ 4.10-35
Table 4.10-F Theoretical Annual Electricity Demand for Proposed Land Use Build Out .............. 4.10-36
Table 4.10-G Theoretical Annual Natural Gas Demand for Existing Uses of Land ....................... 4.10-37
Table 4.10-H Theoretical Natural Gas Demand for Proposed Land Use Build Out ........................ 4.10-38

List of Figures
Figure 4.10.1 Electricity Providers Serving Riverside County ........................................................ 4.10-11
Figure 4.10.2 Renewable Energy Sources in Riverside County ..................................................... 4.10-13
Figure 4.10.3 Energy Transmission Corridors and Lines ................................................................ 4.10-19

Section 4.11  Flood and Dam Inundation Hazards

4.11.1  Introduction ....................................................................................................................... 4.11-1
4.11.2  Existing Environmental Setting – Flood and Dam Inundation Hazards .............................. 4.11-4
4.11.3  Policies and Regulations Addressing Flood and Dam Inundation .................................... 4.11-34
4.11.4  Thresholds of Significance for Flood and Dam Inundation Hazards ................................. 4.11-44
4.11.5  Effect of GPA No. 960 on General Plan and on Flood & Dam Inundation Hazards ......... 4.11-44
4.11.6  Flood and Dam Inundation Hazards - Impacts and Mitigation .......................................... 4.11-50
4.11.7  Significance After Mitigation for Flood and Dam Inundation Hazards ............................ 4.11-63

List of Tables
Table 4.11-A Potential Flooding Sources Studied in Riverside County ........................................... 4.11-7
Table 4.11-B National Inventory of Dam (NATDAM) Data for Riverside County ........................ 4.11-19
Table 4.11-C Local Flood Risk Management Agencies in Riverside County ................................. 4.11-38
## List of Figures

| Figure 4.11.1 | 100-Year Flood Hazard Zones in Riverside County | 4.11-9 |
| Figure 4.11.2 | Dam Inundation Failure Zones in Riverside County | 4.11-21 |

## Section 4.12  Geology and Soils

| 4.12.1 | Existing Environmental Setting – Geology and Soils | 4.12-1 |
| 4.12.2 | Policies and Regulations Addressing Geology and Soils | 4.12-14 |
| 4.12.3 | Thresholds of Significance for Geology and Soils Resources | 4.12-30 |
| 4.12.4 | Effect of GPA No. 960 on the General Plan and on Geology and Soils | 4.12-30 |
| 4.12.5 | Geology and Soils - Impacts and Mitigation | 4.12-34 |
| 4.12.6 | Significance After Mitigation for Geology and Soil Resources | 4.12-49 |

## List of Tables

| Table 4.12-A | Probable Earthquake Scenarios for Riverside County | 4.12-3 |
| Table 4.12-B | General Liquefaction Potential Zones for Riverside County | 4.12-9 |
| Table 4.12-C | Geology Hazard Areas within Riverside County | 4.12-32 |
| Table 4.12-D | Potential Project Areas Affected by Geologic Hazard Areas | 4.12-32 |

## List of Figures

| Figure 4.12.1 | Alquist-Priolo Fault Zones | 4.12-5 |
| Figure 4.12.2 | Earthquake Probability | 4.12-7 |
| Figure 4.12.3 | Liquefaction Zones | 4.12-15 |
| Figure 4.12.4 | Steep Slopes | 4.12-17 |
| Figure 4.12.5 | Documented Subsidence Areas | 4.12-19 |
| Figure 4.12.6 | Wind Erosion Susceptibility Areas | 4.12-21 |
| Figure 4.12.7 | Near Source Zone Regions UBC Zone Boundary | 4.12-23 |

## Section 4.13  Hazardous Materials and Safety

| 4.13.1 | Introduction | 4.13-1 |
| 4.13.2 | Existing Environmental Setting – Hazardous Materials and Safety | 4.13-4 |
| 4.13.4 | Thresholds of Significance for Hazardous Materials and Safety | 4.13-70 |
| 4.13.5 | Effect of GPA No. 960 on the General Plan and on Hazardous Materials and Safety | 4.13-71 |
| 4.13.6 | Hazardous Materials and Safety – Impacts and Mitigation | 4.13-80 |
| 4.13.7 | Significance After Mitigation – Hazardous Materials and Safety | 4.13-97 |
List of Tables

Table 4.13-A Major Hazardous Material Sites in Riverside County ................................................. 4.13-5
Table 4.13-B Airport Compatibility Zone Safety and Airspace Protection Factors ............................ 4.13-22
Table 4.13-C Air Facilities In and Around Riverside County .......................................................... 4.13-24
Table 4.13-D Largest Fires in California Over the Past Decade ...................................................... 4.13-37
Table 4.13-E California State Jurisdiction Wildfire Statistics for 2000-2010 ................................... 4.13-37
Table 4.13-F Housing Density Classes for Defining Types of Fire Hazard Lands ............................. 4.13-38
Table 4.13-G Minimum Fire Protection Flows ................................................................................ 4.13-49
Table 4.13-H Hazmat Sites Potentially Near Future Development ............................................... 4.13-72
Table 4.13-I Potential Conflicts with Public-Serving Airports ....................................................... 4.13-74
Table 4.13-J Fire Hazard Overlay Zones for Project Components .................................................. 4.13-75
Table 4.13-K Fire Responsibility Classifications for Project Components ......................................... 4.13-76
Table 4.13-L Countywide Residential Fire Risks, Existing and Buildout ....................................... 4.13-77
Table 4.13-M Residential Fire Risks at Buildout, GPA No. 960 Components Only .......................... 4.13-77

List of Figures

Figure 4.13.1 Locations of Major Hazardous Material Sites ........................................................... 4.13-13
Figure 4.13.2 Location of Public Airports in Riverside County ....................................................... 4.13-29
Figure 4.13.3 Military Airspace Over Riverside County ................................................................. 4.13-31
Figure 4.13.4 Military Training Airspace and Training Routes Over Riverside County ................. 4.13-33
Figure 4.13.5 Weapon, Laser and Surface Danger Safety Zones at CMAGR ............................... 4.13-35
Figure 4.13.6 Fire Responsibility Areas in Riverside County ......................................................... 4.13-45
Figure 4.13.7 Fire Hazard Severity Zones in Riverside County ..................................................... 4.13-47

Section 4.14 Mineral Resources

4.14.1 Introduction ....................................................................................................................... 4.14-1
4.14.2 Existing Environmental Setting - Mineral Resources ....................................................... 4.14-1
4.14.4 Thresholds of Significance for Mineral Resources ........................................................... 4.14-16
4.14.5 Effect of GPA No. 960 on the General Plan and on Mineral Resources ........................... 4.14-16
4.14.6 Mineral Resources - Impacts and Mitigation ................................................................... 4.14-18
4.14.7 Mineral Resources - Level of Significance After Mitigation ............................................. 4.14-20

List of Tables

Table 4.14-A Changes Affecting State Mineral Resource Areas ..................................................... 4.14-17

List of Figures

Figure 4.14.1 Mineral Resource Areas Map ..................................................................................... 4.14-7
Section 4.15  Noise

4.15.1  Introduction and Background ................................................................. 4.15-1
4.15.2  Existing Environmental Setting - Noise .................................................... 4.15-5
4.15.3  Policies and Regulations Addressing Noise ................................................ 4.15-67
4.15.4  Thresholds of Significance for Noise ....................................................... 4.15-85
4.15.5  Effect of GPA No. 960 on the General Plan and on Noise ....................... 4.15-86
4.15.6  Noise - Impacts and Mitigation ............................................................... 4.15-160
4.15.7  Significance After Mitigation for Noise .................................................... 4.15-179

List of Tables

Table 4.15-A  Definitions of Acoustical Terms ...................................................... 4.15-4
Table 4.15-B  Common Sound Levels and Their Noise Sources ............................ 4.15-5
Table 4.15-C  Human Responses to Groundborne Vibration ................................... 4.15-5
Table 4.15-D  Short-Term Ambient Noise Monitoring Results ............................. 4.15-7
Table 4.15-E  Long-Term Ambient Noise Locations ............................................. 4.15-9
Table 4.15-F  Long-Term Ambient Noise Monitoring Results ............................. 4.15-9
Table 4.15-G  Traffic Noise Levels, Base Year (Existing, 2007) Conditions .............. 4.15-13
Table 4.15-H  Incremental Noise Impact Criteria for Noise-Sensitive Uses .......... 4.15-68
Table 4.15-I  Groundborne Vibration and Noise Impact Criteria .......................... 4.15-69
Table 4.15-J  Riverside County Ordinance No. 847 Sound Level Standards .......... 4.15-72
Table 4.15-K  Land Use Compatibility for Community Noise Exposure (aka GP Table N-1) ............................................................... 4.15-74
Table 4.15-L  Stationary Source Land Use Standards (aka General Plan Table N-2) 4.15-75
Table 4.15-M  Future Traffic Noise Levels, With and Without Project .................. 4.15-88
Table 4.15-N  Typical Vibration Levels Associated with Construction Equipment 4.15-156
Table 4.15-O  Typical Maximum Noise Levels for Construction Equipment ........ 4.15-156
Table 4.15-P  Airport Compatibility Zones and Noise Levels .............................. 4.15-157

List of Figures

Figure 4.15.1  Short-Term and Long-Term Noise Monitoring Locations Map ........ 4.15-11
Figure 4.15.2  Typical Railroad Noise Contours - 1 Locomotive and 5 Cars with Horns (Commuter Train) ................................................................. 4.15-19
Figure 4.15.3  Typical Railroad Noise Contours - 2 Locomotives and 50 Cars with Horns (Freight Train - Medium) ......................................................... 4.15-21
Figure 4.15.4  Typical Railroad Noise Contours - 3 Locomotives and 100 Cars with Horns (Freight Train - Large) ................................................................. 4.15-23
Figure 4.15.5  Banning Municipal Airport Existing Noise Contours .......................... 4.15-25
Figure 4.15.6  Bermuda Dunes Airport Existing Noise Contours - Average Annual Day .......... 4.15-27
Figure 4.15.7  Bermuda Dunes Airport Existing Noise Contours - Average Peak Season Day .... 4.15-29
Figure 4.15.8  Blythe Municipal Airport Existing Noise Contours ........................................... 4.15-31
Figure 4.15.9  Corona Municipal Airport Existing Noise Contours ........................................... 4.15-33
Figure 4.15.10 Flabob Airport Existing Noise Contours .............................................................. 4.15-35
Figure 4.15.11 French Valley Airport Existing Noise Contours .................................................. 4.15-37
Figure 4.15.12 Hemet Ryan Airport Existing (1990) Noise Contours ......................................... 4.15-39
Figure 4.15.13 Jacqueline Cochran Regional Airport Existing Noise Contours ......................... 4.15-41
Figure 4.15.14 Palm Springs International Airport Existing Noise Contours ............................. 4.15-43
Figure 4.15.15 Perris Valley Airport Existing Noise Contours ...................................................... 4.15-45
Figure 4.15.16 Riverside Municipal Airport Existing Noise Contours ........................................ 4.15-47
Figure 4.15.17 Chino Airport Existing Noise Contours ............................................................... 4.15-49
Figure 4.15.18 Military Airspace in Southern California ............................................................... 4.15-51
Figure 4.15.19 Existing Noise Contours for Chocolate Mountain Aerial Gunnery Range ............... 4.15-53
Figure 4.15.20 March Joint Air Reserve Base, Noise Contours .................................................... 4.15-55
Figure 4.15.21 Military Training Airspace in the CMAGR Operating Area ................................. 4.15-57
Figure 4.15.22 Special Use Airspace in Riverside County ........................................................... 4.15-59
Figure 4.15.23 Banning Municipal Airport Future Noise Contours ............................................. 4.15-61
Figure 4.15.24 Bermuda Dunes Airport Future Noise Contours - Average Annual Day .......... 4.15-63
Figure 4.15.25 Bermuda Dunes Airport Future Noise Contours - Average Peak Season Day .... 4.15-65
Figure 4.15.26 Blythe Municipal Airport Future (2020) Noise Contours .................................... 4.15-67
Figure 4.15.27 Blythe Municipal Airport Future (Ultimate) Noise Contours ............................... 4.15-69
Figure 4.15.28 Chiriaco Summit Airport Future Noise Contours ............................................... 4.15-71
Figure 4.15.29 Corona Municipal Airport Future Noise Contours ............................................. 4.15-73
Figure 4.15.30 Desert Center Airport Future Noise Contours ..................................................... 4.15-75
Figure 4.15.31 Flabob Airport Future Noise Contours ................................................................. 4.15-77
Figure 4.15.32 French Valley Airport Future Noise Contours ....................................................... 4.15-79
Figure 4.15.33 Hemet Ryan Airport Future (2005) Noise Contours ............................................ 4.15-81
Figure 4.15.34 Jacqueline Cochran Regional Airport Future (2025) Noise Contours ................. 4.15-83
Figure 4.15.35 Jacqueline Cochran Regional Airport Future (Ultimate) Noise Contours ............. 4.15-85
Figure 4.15.36 Palm Springs International Airport Future (2025) Noise Contours ..................... 4.15-87
Figure 4.15.37 Perris Valley Airport Future (2028) Noise Contours ............................................ 4.15-89
Figure 4.15.38 Riverside Municipal Airport Future (2025) Noise Contours ............................... 4.15-91
Figure 4.15.39 Chino Airport Future (2028) Noise Contours ....................................................... 4.15-93
Figure 4.15.40 Projected (Future) Roadway Noise Contours - Collector Street, 2 Lanes ............. 4.15-95
Figure 4.15.41 Projected (Future) Roadway Noise Contours - Secondary Highway, 4 Lanes ....... 4.15-97
Figure 4.15.42 Projected (Future) Roadway Noise Contours - Major Highway, 4 Lanes ............. 4.15-99
Figure 4.15.43 Projected (Future) Roadway Noise Contours - Mountain Arterial, 4 Lanes ........... 4.15-101
Figure 4.15.44 Projected (Future) Roadway Noise Contours - Urban Arterial, 6 Lanes ............... 4.15-103
Figure 4.15.45 Projected (Future) Roadway Noise Contours - Expressway, 6 Lanes ................. 4.15-105
Figure 4.15.46 Projected (Future) Roadway Noise Contours - Freeway, 6 Lanes ....................... 4.15-107
Figure 4.15.47 Projected (Future) Roadway Noise Contours - Freeway, 10 Lanes ..................... 4.15-109
Figure 4.15.48 Projected (Future) Roadway Noise Contours – Segment Grand Avenue, Between Cactus Avenue and Ortega Highway ....................................................... 4.15-111
Figure 4.15.49 Projected (Future) Roadway Noise Contours – Segment State Route 79, Between Gilman Springs Road and Mellow Lane ...................................................... 4.15-113
Section 4.16   Parks and Recreation

4.16.1   Introduction ............................................................................................................ 4.16-1
4.16.2   Existing Environmental Setting - Parks and Recreation ......................................... 4.16-1
4.16.3   Policies and Regulations Addressing Parks and Recreation ..................................... 4.16-12
4.16.4   Thresholds of Significance for Parks and Recreation ............................................. 4.16-22
4.16.5   Effect of GPA No. 960 on the General Plan and on Parks and Recreation ............... 4.16-23
4.16.6   Parks and Recreation - Impacts and Mitigation .................................................... 4.16-29
4.16.7   Parks and Recreation – Level of Significance After Mitigation ............................... 4.16-35

List of Tables
Table 4.16-A   Park and Recreational Jurisdictional Totals in Riverside County ......................... 4.16-2
Table 4.16-B   Existing and Proposed Parks and Recreation in Riverside County .................... 4.16-5
Table 4.16-C   Theoretical Parkland Needs With and Without the Project ............................... 4.16-27

List of Figures
Figure 4.16.1  Map of Existing Parks and Recreational Resources in Riverside County ............ 4.16-3
Figure 4.16.2  Countywide Trails and Bikeways Map ........................................................... 4.16-13
Figure 4.16.3  Existing Countywide Trails and Bikeways Map ............................................. 4.16-15
Figure 4.16.4  New Trail and Bikeway Cross-Sections ......................................................... 4.16-25
Section 4.17 Public Facilities

4.17.1 Introduction ....................................................................................................................... 4.17-1
4.17.2 Fire Protection Services .................................................................................................... 4.17-3
4.17.3 Law Enforcement Services ............................................................................................. 4.17-25
4.17.4 Solid Waste Management ............................................................................................... 4.17-36
4.17.5 Schools ............................................................................................................................ 4.17-54
4.17.6 Libraries .......................................................................................................................... 4.17-65
4.17.7 Medical Facilities ............................................................................................................. 4.17-73

List of Tables

Table 4.17-A Cities Served by the Riverside County Fire Department (CalFire) ............................. 4.17-4
Table 4.17-B CalFire Aid Agreements ............................................................................................. 4.17-4
Table 4.17-C Fire Stations Serving Riverside County ..................................................................... 4.17-10
Table 4.17-D Theoretical Fire Station Needs With and Without the Project ................................. 4.17-19
Table 4.17-E Theoretical Fire Station Needs for Areas of New Development Potential ................. 4.17-20
Table 4.17-F Comparison of Theoretical Fire Support Needs at General Plan Buildout ................. 4.17-20
Table 4.17-G County Sheriff’s Department Substations Serving Riverside County ....................... 4.17-25
Table 4.17-H Theoretical Law Enforcement Needs With and Without the Project ........................ 4.17-31
Table 4.17-I Theoretical Law Enforcement Needs for New Development Potential Area ............... 4.17-32
Table 4.17-J Theoretical Law Enforcement Needs at General Plan Buildout ................................. 4.17-32
Table 4.17-K Solid Waste Disposal Facilities in Riverside County .............................................. 4.17-38
Table 4.17-L Active Landfills in Riverside County ....................................................................... 4.17-41
Table 4.17-M Fifteen-Year Disposal Capacity Projections for Riverside County ............................ 4.17-42
Table 4.17-N Theoretical Solid Waste Generation for Existing and Buildout Conditions ............. 4.17-47
Table 4.17-O Theoretical Solid Waste Generation for New Development Potential Areas .......... 4.17-48
Table 4.17-P Comparison of Theoretical Solid Waste Generation at Buildout ............................... 4.17-49
Table 4.17-Q Total School Enrollment for Riverside County School Districts .............................. 4.17-55
Table 4.17-R Theoretical Student Generation With and Without the Project ................................. 4.17-61
Table 4.17-S Theoretical Student Generation for New Development Potential Areas .................. 4.17-61
Table 4.17-T Theoretical Student Generation at General Plan Buildout ....................................... 4.17-61
Table 4.17-U Total Project-Related Student Population Changes by School District .................... 4.17-62
Table 4.17-V County Libraries Serving Riverside County ......................................................... 4.17-65
Table 4.17-W Theoretical Library Services Need Projections ...................................................... 4.17-71
Table 4.17-X Riverside County Family Care Clinics and Related Facilities .................................. 4.17-74
Table 4.17-Y Theoretical Medical Service Needs With and Without the Project ........................... 4.17-78
Table 4.17-Z Theoretical Medical Needs for Areas of New Development Potential ........................ 4.17-79
Table 4.17-AA Theoretical Medical Service Needs at General Plan Buildout ................................. 4.17-79
List of Figures

Figure 4.17.1 Fire Stations in Riverside County ................................................................. 4.17-5
Figure 4.17.2 Fire Responsibility Areas ............................................................................... 4.17-7
Figure 4.17.3 Police and Sheriff Station Locations ............................................................ 4.17-27
Figure 4.17.4 Landfill Locations ....................................................................................... 4.17-39
Figure 4.17.5 Public School Locations in Riverside County ............................................. 4.17-57
Figure 4.17.6 County Public Library Locations in Riverside County ......................... 4.17-67
Figure 4.17.7 Hospital Locations in Riverside County ..................................................... 4.17-75

Section 4.18 Transportation and Circulation

4.18.1 Introduction .............................................................................................................. 4.18-1
4.18.2 Baseline Environmental Setting – Transportation and Circulation .................... 4.18-2
4.18.3 Regulations and Programs for Transportation and Circulation ......................... 4.18-23
4.18.4 Thresholds of Significance for Transportation and Circulation ......................... 4.18-43
4.18.5 Analysis of Project Impacts and Determination of Significant Impacts ............. 4.18-44
4.18.6 Significance After Mitigation for Circulation ....................................................... 4.18-104

List of Tables

Table 4.18-A Major Transportation Impacts ....................................................................... 4.18-1
Table 4.18-B Uninterrupted Traffic Flow Facilities Level of Service ................................. 4.18-4
Table 4.18-C Interrupted Traffic Flow Facilities Level of Service ................................... 4.18-5
Table 4.18-D Segment Volume Capacities/Level of Service for Riverside County Roadways .............................................................................................................. 4.18-6
Table 4.18-E Level of Service Comparison by Jurisdiction .............................................. 4.18-8
Table 4.18-F Roadways Under Current LOS C Target Policy Forecast to Operate at LOS D ........................................................................................................... 4.18-10
Table 4.18-G Baseline Roadway Levels of Service for Freeways and State Routes .......... 4.18-11
Table 4.18-H Baseline Roadway Levels of Service for Roadway Segments One Mile or Greater (Arterial Road Network) ................................................................. 4.18-17
Table 4.18-I Daily Truck Volumes on Freeways in Riverside County (Bi-Directional) .. 4.18-22
Table 4.18-J Population, Household, Employment and Trip Generation Comparison .... 4.18-48
Table 4.18-K Vehicle Miles Traveled (VMT) Summary .................................................... 4.18-49
Table 4.18-L Vehicle Hours Traveled (VHT) and Average Travel Speed Summary .......... 4.18-49
Table 4.18-M Baseline and Baseline Plus Project (County Growth) Freeway and State Route Segment Levels of Service ................................................................. 4.18-50
Table 4.18-N Baseline and Baseline Plus Project Roadway Comparison for Segments One Mile or Greater in Length (Arterial Road Network) ........................................... 4.18-54
Table 4.18-O Baseline to GPA No. 960 Freeway and Expressway Comparison ............ 4.18-59
Table 4.18-P Baseline to GPA No. 960 Comparison for Segments One Mile or Greater (Arterial Road Network) ................................................................. 4.18-63
Section 4.19 Water Resources

4.19.1 Introduction ....................................................................................................................... 4.19-1
4.19.2 Existing Environmental Setting - Hydrology ................................................................. 4.19-12
4.19.3 Existing Environmental Setting – State and Regional Water Supply .............................. 4.19-57
4.19.4 Existing Environmental Setting – Local Water Supplies Serving Riverside County .... 4.19-101
4.19.5 Policies and Regulations Addressing Water Resources ................................................. 4.19-260
4.19.6 Thresholds of Significance for Water Resources .......................................................... 4.19-279
4.19.7 Effect of GPA No. 960 on the General Plan and on Water Resources ........................ 4.19-280
4.19.8 Water Resources – Impacts and Mitigation ................................................................. 4.19-293
4.19.9 Water Resources – Significance After Mitigation ...................................................... 4.19-340

List of Tables

Table 4.19-A Summary of Water and Sewer Providers Within Riverside County ...................... 4.19-5
Table 4.19-B Pollutant Sources and Effects on Waters of the United States ............................. 4.19-36
Table 4.19-C Impaired Waterbodies in Riverside County ........................................................ 4.19-37
Table 4.19-D Beneficial Uses of Select Waterbodies in Riverside County ............................... 4.19-40
Table 4.19-E Riverside County Master Drainage Plans and Area Drainage Plans .................... 4.19-54
Table 4.19-F Colorado River Seven-Party Agreement Priorities and Water Contracts ............. 4.19-60
Table 4.19-G South Coast Region - SWP Table A Deliveries for Existing Conditions ............... 4.19-67
Table 4.19-H Colorado River Region - SWP Table A Deliveries for Existing Conditions ...... 4.19-68
Table 4.19-I SWP Future Conditions Water Delivery Projections ........................................... 4.19-71
Table 4.19-J Regional Water Balance Data .................................................................................. 4.19-79
Table 4.19-K Adjudicated Waters in Riverside County ............................................................... 4.19-103
Table 4.19-L Groundwater Basins in Riverside County ............................................................ 4.19-104
Table 4.19-M Well Data Summary for Colorado River Hydrologic Region .............................. 4.19-106
Table 4.19-N Well Data Summary for South Coast Hydrologic Region ................................. 4.19-116
Table 4.19-O Growth in Occupied Housing In MWD Service Area ......................................... 4.19-140
Table 4.19-P MWD Total Retail Municipal and Industrial Demand Forecasts ........................ 4.19-151
Table 4.19-Q MWD Total Overall Retail Demand ................................................................. 4.19-152
Table 4.19-R MWD Water Deliveries to Member Agencies .................................................... 4.19-152
Table 4.19-S MWD Total Retail Agricultural Demand ............................................................. 4.19-152
Table 4.19-T MWD Average Year Regional Water Demands .................................................. 4.19-154
# Table of Contents

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.19-U</td>
<td>MWD Single Dry Year Regional Water Demands</td>
<td>4.19-156</td>
</tr>
<tr>
<td>4.19-V</td>
<td>MWD Multiple Dry Year Regional Water Demands</td>
<td>4.19-156</td>
</tr>
<tr>
<td>4.19-W</td>
<td>MWD Local Supplies, Average Year and Single Dry Year</td>
<td>4.19-157</td>
</tr>
<tr>
<td>4.19-X</td>
<td>MWD Multiple Dry Year Supply Capacity</td>
<td>4.19-158</td>
</tr>
<tr>
<td>4.19-Y</td>
<td>MWD Summary of Single Dry Year Supply and Demand Projections</td>
<td>4.19-158</td>
</tr>
<tr>
<td>4.19-Z</td>
<td>MWD Summary of Multiple Dry Year Supply and Demand Projections</td>
<td>4.19-159</td>
</tr>
<tr>
<td>4.19-AA</td>
<td>MWD Summary of Average Year Supply and Demand Projections</td>
<td>4.19-159</td>
</tr>
<tr>
<td>4.19-AB</td>
<td>Eastern Municipal Water District Background Information</td>
<td>4.19-167</td>
</tr>
<tr>
<td>4.19-AC</td>
<td>EMWD Water and Wastewater Service Data</td>
<td>4.19-168</td>
</tr>
<tr>
<td>4.19-AD</td>
<td>EMWD Water Supply and Demand Summary</td>
<td>4.19-169</td>
</tr>
<tr>
<td>4.19-AE</td>
<td>Western Municipal Water District Background Information</td>
<td>4.19-175</td>
</tr>
<tr>
<td>4.19-AF</td>
<td>WMWD Water and Wastewater Service Data</td>
<td>4.19-176</td>
</tr>
<tr>
<td>4.19-AG</td>
<td>WMWD Water Supply and Demand Summary</td>
<td>4.19-177</td>
</tr>
<tr>
<td>4.19-AH</td>
<td>San Bernardino Valley Municipal Water District Background Information</td>
<td>4.19-185</td>
</tr>
<tr>
<td>4.19-AI</td>
<td>SBVMWD Water and Wastewater Service Data</td>
<td>4.19-185</td>
</tr>
<tr>
<td>4.19-AJ</td>
<td>SBVMWD Water Supply and Demand Summary</td>
<td>4.19-186</td>
</tr>
<tr>
<td>4.19-AK</td>
<td>Jurupa Community Services District Background Information</td>
<td>4.19-193</td>
</tr>
<tr>
<td>4.19-AL</td>
<td>JCSD Water and Wastewater Service Data</td>
<td>4.19-198</td>
</tr>
<tr>
<td>4.19-AM</td>
<td>JCSD Water Supply and Demand Summary</td>
<td>4.19-202</td>
</tr>
<tr>
<td>4.19-AN</td>
<td>Rubidoux Community Services District Background Information</td>
<td>4.19-203</td>
</tr>
<tr>
<td>4.19-AO</td>
<td>RCSD Water and Wastewater Service Data</td>
<td>4.19-204</td>
</tr>
<tr>
<td>4.19-AP</td>
<td>RCSD Water Supply and Demand Summary</td>
<td>4.19-205</td>
</tr>
<tr>
<td>4.19-AQ</td>
<td>Coachella Valley Water District Background Information</td>
<td>4.19-211</td>
</tr>
<tr>
<td>4.19-AR</td>
<td>CVWD Water and Wastewater Service Data</td>
<td>4.19-212</td>
</tr>
<tr>
<td>4.19-AS</td>
<td>CVWD Water Supply and Demand Summary</td>
<td>4.19-214</td>
</tr>
<tr>
<td>4.19-AT</td>
<td>State Water Project Supplies to Desert Region</td>
<td>4.19-216</td>
</tr>
<tr>
<td>4.19-AU</td>
<td>CVWD Current and Projected Water Supplies</td>
<td>4.19-218</td>
</tr>
<tr>
<td>4.19-AV</td>
<td>CVWD Total Urban Water Deliveries by Customer Type</td>
<td>4.19-221</td>
</tr>
<tr>
<td>4.19-AW</td>
<td>CVWD Total Projected Potable and Non-Potable Urban Water Use</td>
<td>4.19-222</td>
</tr>
<tr>
<td>4.19-AX</td>
<td>Desert Water Agency Background Information</td>
<td>4.19-229</td>
</tr>
<tr>
<td>4.19-AY</td>
<td>DWA Water and Wastewater Service Data</td>
<td>4.19-230</td>
</tr>
<tr>
<td>4.19-AZ</td>
<td>DWA Water Supply and Demand Summary</td>
<td>4.19-231</td>
</tr>
<tr>
<td>4.19-BA</td>
<td>SGPWA Average Year Water Supply and Demand Estimates</td>
<td>4.19-244</td>
</tr>
<tr>
<td>4.19-BB</td>
<td>SGPWA Water Supply and Demand Summary</td>
<td>4.19-245</td>
</tr>
<tr>
<td>4.19-BC</td>
<td>San Jacinto Mountain Area Water Production and Usage</td>
<td>4.19-248</td>
</tr>
<tr>
<td>4.19-BD</td>
<td>San Jacinto Mountain Area Water Demand Summary</td>
<td>4.19-251</td>
</tr>
<tr>
<td>4.19-BE</td>
<td>San Jacinto Mountain Area Peak Water Supply and Demand</td>
<td>4.19-251</td>
</tr>
<tr>
<td>4.19-BF</td>
<td>Groundwater Basins Underlying Non-Served Areas</td>
<td>4.19-253</td>
</tr>
<tr>
<td>4.19-BG</td>
<td>Sewer and Wastewater Treatment Providers in Riverside County</td>
<td>4.19-258</td>
</tr>
<tr>
<td>4.19-BH</td>
<td>Wastewater Treatment Facilities in Riverside County</td>
<td>4.19-258</td>
</tr>
<tr>
<td>4.19-BI</td>
<td>Theoretical Water Supply for Existing and Buildout Conditions</td>
<td>4.19-285</td>
</tr>
<tr>
<td>4.19-BJ</td>
<td>Theoretical Wastewater Generated by Existing and Buildout Conditions</td>
<td>4.19-286</td>
</tr>
<tr>
<td>4.19-BK</td>
<td>Theoretical Water Supply for Areas of New Development Potential</td>
<td>4.19-286</td>
</tr>
<tr>
<td>4.19-BL</td>
<td>Theoretical Wastewater Generation by New Development Potential Areas</td>
<td>4.19-287</td>
</tr>
<tr>
<td>4.19-BM</td>
<td>Comparison of Existing General Plan and Proposed Updated General Plan</td>
<td>4.19-287</td>
</tr>
</tbody>
</table>

Theoretical Water Demands at County Buildout
Table 4.19-BN  Comparison of Existing General Plan and Proposed Updated General Plan
Theoretical Wastewater Generations at County Buildout ................................................. 4.19-288
Table 4.19-BO  Summary of Project Spatial Effects on Hydrology, by Water District......... 4.19-289
Table 4.19-BP  Summary of Project Spatial Effects to Areas Outside Water Districts .......... 4.19-290
Table 4.19-BQ  Summary of Project Spatial Effects by County Master Drainage Plan .......... 4.19-291

List of Figures

Figure 4.19.1  Water Districts Serving Western Riverside County ........................................ 4.19-7
Figure 4.19.2  Water Districts Serving Eastern Riverside County ....................................... 4.19-9
Figure 4.19.3  Major Watersheds within Riverside County ................................................... 4.19-17
Figure 4.19.4  South Coast Hydrological Region ................................................................. 4.19-19
Figure 4.19.5  Colorado River Hydrological Region ............................................................. 4.19-21
Figure 4.19.6  Whitewater River Region MS4 Permit Area .................................................. 4.19-29
Figure 4.19.7  Santa Ana River Region MS4 Permit Area ...................................................... 4.19-31
Figure 4.19.8  Santa Margarita River Region MS4 Permit Area ............................................ 4.19-33
Figure 4.19.9  Master Drainage Plans in Riverside County (COW) ...................................... 4.19-55
Figure 4.19.10 Major California Water Conveyance Facilities ........................................... 4.19-61
Figure 4.19.11 Statewide - Change in Future Water Demand by Scenario .......................... 4.19-73
Figure 4.19.12 South Coast Region - Change in Future Water Demand by Scenario ............ 4.19-75
Figure 4.19.13 Colorado River Region - Change in Future Water Demand by Scenario ........ 4.19-77
Figure 4.19.14 Groundwater Basins Within Riverside County ............................................ 4.19-107
Figure 4.19.15 Schematic of Water Supply for Western Riverside County ......................... 4.19-133
Figure 4.19.16 Schematic of Water Supply for Eastern Riverside County (Coachella Valley) .. 4.19-135
Figure 4.19.17 Schematic of Water Supply for Pass/Mountain Area of Riverside County ... 4.19-137
Figure 4.19.18 Map of MWD’s Service Area ...................................................................... 4.19-143
Figure 4.19.19 MWD Population Projections ...................................................................... 4.19-145
Figure 4.19.20 Map of EMWD’s Service Area .................................................................. 4.19-165
Figure 4.19.21 WMWD Service Area ............................................................................... 4.19-173
Figure 4.19.22 EWD / EVMWD Map .............................................................................. 4.19-181
Figure 4.19.23 Map of SBVMWD’s Service Area ................................................................. 4.19-189
Figure 4.19.24 Jurupa and Rubidoux Community Service Districts Service Areas ............. 4.19-195
Figure 4.19.25 CVWD Service Area ............................................................................... 4.19-207
Figure 4.19.26 Colorado River Water Users and Infrastructure .......................................... 4.19-209
Figure 4.19.27 Water Agencies in the Coachella Valley ...................................................... 4.19-227
Figure 4.19.28 PVID Service Boundaries ......................................................................... 4.19-237
Figure 4.19.29 SGPWA Service Boundaries ..................................................................... 4.19-239
Figure 4.19.30 Groundwater Basins in the SGP Region ..................................................... 4.19-241
Figure 4.19.31 Mountain Water Districts Service Boundaries ........................................... 4.19-249
Figure 4.19.32 Wastewater and Sewer Providers in Riverside County ............................... 4.19-255

Section 5.0  Additional Required CEQA Topics

5.0  About This Section ..................................................................................................... 5.0-1
5.1  Significant Environmental Effects that Cannot be Avoided .................................... 5.0-4
5.2 Significant Irreversible Environmental Changes ........................................... 5.0-19
5.3 Significant Effects on Humans .................................................................... 5.0-26
5.4 Growth Inducement ................................................................................... 5.0-29
5.5 Cumulative Impacts .................................................................................. 5.0-42
5.6 Consistency with Regional Plans ............................................................... 5.0-202

List of Tables
Table 5.0-A Unavoidable Significant Environmental Effects ......................... 5.0-2
Table 5.0-B Summary of Significant Irreversible Changes and Growth-Inducing Effects ................................................... 5.0-4
Table 5.2-A Open Space Areas Proposed for Future Developed Uses ............ 5.0-23
Table 5.5-A General Plan Amendments Included in Cumulative Build Out Scenario .................................................. 5.0-44
Table 5.5-B: Land Use Summary for Cumulative GPA Build Out Scenario .................................................. 5.0-47
Table 5.5-C: Demographic Summary for Cumulative GPA Build Out Scenario .................................................. 5.0-48
Table 5.5-D Cumulative Land Use Effects .................................................... 5.0-54
Table 5.5-E Cumulative Socioeconomic Effects .......................................... 5.0-61
Table 5.5-F Cumulative Palomar Lighting Zone Effects .................................. 5.0-66
Table 5.5-G Cumulative Scenic Highway Effects ......................................... 5.0-66
Table 5.5-H Cumulative Farmland Effects .................................................... 5.0-71
Table 5.5-I Cumulative Unmitigated Operational Emissions ....................... 5.0-76
Table 5.5-J Cumulative Mitigated Operational Emissions ............................. 5.0-78
Table 5.5-K Cumulative Operational Greenhouse Gas Emissions (AB 32) ...... 5.0-90
Table 5.5-L Cumulative Per-Capita Greenhouse Gas Emissions (SB 375) ....... 5.0-90
Table 5.5-M Cumulative Biological Effects in Unincorporated Riverside County .................................................. 5.0-96
Table 5.5-N Cumulative Paleontological Effects in Riverside County ........... 5.0-104
Table 5.5-O Cumulative Effects on Theoretical Electricity Demand .............. 5.0-109
Table 5.5-P Cumulative Effects on Theoretical Natural Gas Demand ............ 5.0-110
Table 5.5-Q Cumulative Hundred-Year Floodplain Effects ......................... 5.0-113
Table 5.5-R Cumulative Fault Zone Effects .................................................. 5.0-120
Table 5.5-S Cumulative Liquefaction Effects .............................................. 5.0-121
Table 5.5-T Cumulative Wind Erosion Effects ............................................. 5.0-122
Table 5.5-U Cumulative Fire Responsibility Area Effects ............................ 5.0-133
Table 5.5-V Cumulative Mineral Resource Zone Effects ............................ 5.0-137
Table 5.5-W Cumulative Theoretical Parkland Effects ................................. 5.0-150
Table 5.5-X Cumulative Effect on Theoretical Demand for Fire Protection ...... 5.0-157
Table 5.5-Y Cumulative Effect on Theoretical Demand for Law Enforcement .... 5.0-158
Table 5.5-Z Cumulative Effect on Theoretical Solid Waste Generation .......... 5.0-158
Table 5.5-AA Cumulative Effect on Theoretical Student Generation ............. 5.0-158
Table 5.5-AB Cumulative Effect on Theoretical Library Demand .................. 5.0-159
Table 5.5-AC Cumulative Effect on Theoretical Hospital Demand .................. 5.0-159
Table 5.5-AD Cumulative Traffic Impacts ...................................................... 5.0-172
Table 5.5-AE Cumulative Effect on Theoretical Potable Water Demand ....... 5.0-183
Table 5.5-AF Cumulative Effect on Theoretical Wastewater Treatment Demand ............... 5.0-184
Table 5.5-AG Cumulative Effect on Water District Service Areas .................. 5.0-184
Table 5.5-AH Cumulative Effect on Groundwater Basins .............................. 5.0-186
Section 6.0 Alternatives Analysis

6.1 Introduction ......................................................................................................................... 6.0-1
6.2 Selection of Alternatives ..................................................................................................... 6.0-1
6.3 Rejected Alternatives ......................................................................................................... 6.0-6
6.4 Alternatives Analyzed ....................................................................................................... 6.0-7
6.5 Environmentally Superior Alternative and Preferred Alternative ..................................... 6.0-104

List of Tables

Table 6.0-A Screening Table for Alternatives Considered ............................................................... 6.0-5
Table 6.4-A No Build / No Growth Alternative – Assumptions and Projections ......................... 6.0-12
Table 6.4-B No Build / No Growth Alternative – Environmental Effects Summary ...................... 6.0-14
Table 6.4-C No Project / Status Quo Alternative – Assumptions and Projections ......................... 6.0-26
Table 6.4-D No Project/Status Quo Alternative – Environmental Effects Summary ..................... 6.0-28
Table 6.4-E Agriculture Emphasis Alternative – Assumptions and Projections ......................... 6.0-42
Table 6.4-F Agricultural Emphasis Alternative – Environmental Effects Summary .................... 6.0-43
Table 6.4-G Added Community Centers – Assumptions and Projections ................................. 6.0-59
Table 6.4-H Added Community Centers Alternative - Environmental Effects Summary ................ 6.0-60
Table 6.4-I Green Economy Alternative – Assumptions and Projections .................................... 6.0-75
Table 6.4-J Green Economy Alternative – Environmental Effects Summary ............................ 6.0-76
Table 6.4-K Reduced Rural Villages Alternative – Assumptions and Projections ........................... 6.0-91
Table 6.4-L Reduced Rural Villages Alternative – Environmental Effects Summary ..................... 6.0-92

Section 7.0 References and Bibliography

7.1 EIR Preparers and Contributors ......................................................................................... 7.0-1
7.2 Persons and Agencies Consulted ........................................................................................ 7.0-2
7.3 References .......................................................................................................................... 7.0-4

Section 8.0 Glossary and Acronyms

8.1 Acronyms ............................................................................................................................ 8.0-1
8.2 General Plan Land Use Designation (LUD) Abbreviations .................................................. 8.0-11
### Table of Contents

8.3  Glossary  ........................................................................................................................................8.0-12

---

**VOLUME 2 – APPENDICES**

**PART 1 OF 2**

(UNDER SEPARATE COVER)

<table>
<thead>
<tr>
<th>Appendix EIR-1</th>
<th>CEQA Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendix EIR-2</td>
<td>Area Plan Land Use Tables</td>
</tr>
<tr>
<td>Appendix EIR-3</td>
<td>Aesthetics Inventory</td>
</tr>
<tr>
<td>Appendix EIR-4</td>
<td>Traffic Study</td>
</tr>
<tr>
<td>Appendix EIR-5</td>
<td>Air Quality Data</td>
</tr>
<tr>
<td>Appendix EIR-6</td>
<td>Greenhouse Gas Technical Report</td>
</tr>
</tbody>
</table>

---

**VOLUME 2 – APPENDICES**

**PART 2 OF 2**

(UNDER SEPARATE COVER)

<table>
<thead>
<tr>
<th>Appendix EIR-7</th>
<th>Noise Studies (2011 and 2013)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendix EIR-8</td>
<td>Water Background Information</td>
</tr>
<tr>
<td>Appendix EIR-9</td>
<td>Biological Data</td>
</tr>
<tr>
<td>Appendix EIR-10</td>
<td>Air Quality and Greenhouse Gas Addendum</td>
</tr>
<tr>
<td>Appendix EIR-11</td>
<td>Cumulative Data</td>
</tr>
</tbody>
</table>
This page intentionally left blank