Page

Executive Summary **ES-1**
Impact Summary Tables **IST-1-1**

1.0 Introduction **1-1**
1.1 Proposed Project Objectives 1-4
1.2 Agency Use of the Document 1-5
1.2.1 Local and Regional 1-5
1.2.2 State 1-6
1.2.3 Federal 1-6
1.3 Previous Studies and Reports 1-6
1.4 EIR Process and Scope 1-8
1.5 EIR Contents 1-10

2.0 Project Description **2-1**
2.1 Background 2-1
2.2 Existing Setting Information 2-3
2.2.1 Historical Use 2-5
2.2.2 Current Conditions 2-7
2.3 Proposed Remediation Activities 2-13
2.3.1 Regulatory Agency Involvement/Collaborative Process 2-15
2.3.2 Proposed Remediation Actions Overview 2-17
2.3.3 Project Areas Specific Remediation Plans 2-20
2.3.4 Building and Structure Demolition 2-31
2.3.5 Pipeline Decommissioning 2-32
2.3.6 Reconfiguration of Reservoir 2 2-34
2.3.7 Miscellaneous Clean-up 2-35
2.3.8 Construction Methods 2-37
2.3.9 Site Grading for Remediation and Pad Development 2-47
2.3.10 Remediation Schedule, Employee, and Traffic Details 2-49
2.3.11 Long-Term Monitoring Activities 2-51
2.4 Restoration 2-53
2.4.1 Earthwork 2-54
2.4.2 Planting and Seeding 2-56
2.4.3 Irrigation 2-56
2.4.4 Weed Control 2-56
2.5 Development Options 2-57
2.5.1 City Development Plan 2-57
2.5.2 County Development Plan 2-68
2.6 Project Permitting Requirements 2-76
2.6.1 City Development Plan 2-76
2.6.2 County Development Plan 2-86
2.6.3 Other Potential Permits 2-89
2.7 References 2-91

Page

3.0 Cumulative Scenario and Methodology 3-1
3.1 Cumulative Development Scenario 3-2
3.1.1 Proposed Development in the City and County of San Luis Obispo 3-2
3.1.2 Caltrans 3-7
3.1.3 Other Potential Stakeholders 3-7
3.2 Cumulative Impact Analysis Methodology 3-7
3.3 References 3-7

4.0 Environmental Analysis 4-1
4.1 Air Quality and Greenhouse Gases 4.1-1
4.1.1 Environmental Setting 4.1-1
4.1.2 Regulatory Setting 4.1-18
4.1.3 Significance Criteria 4.1-25
4.1.4 Remediation Project Impacts and Mitigation Measures 4.1-28
4.1.5 City Development Plan Impacts and Mitigation Measures 4.1-41
4.1.6 County Development Plan Impacts and Mitigation Measures 4.1-51
4.1.7 Cumulative Analysis 4.1-53
4.1.8 Mitigation Monitoring Plan 4.1-54
4.1.9 References 4.1-65
4.2 Biological Resources 4.2-1
4.2.1 Environmental Setting 4.2-3
4.2.2 Regulatory Setting 4.2-38
4.2.3 Significance Criteria 4.2-43
4.2.4 Remediation Project Impacts and Mitigation Measures 4.2-44
4.2.5 City Development Plan Impacts and Mitigation Measures 4.2-67
4.2.6 County Development Plan Impacts and Mitigation Measures 4.2-74
4.2.7 Cumulative Impacts and Mitigation Measures 4.2-78
4.2.8 Mitigation Monitoring Program 4.2-81
4.2.9 References 4.2-94
4.3 Transportation and Circulation 4.3-1
4.3.1 Environmental Setting 4.3-1
4.3.2 Regulatory Setting 4.3-10
4.3.3 Significance Criteria 4.3-13
4.3.4 Remediation Project Impacts and Mitigation Measures 4.3-14
4.3.5 City Development Plan Impacts and Mitigation Measures 4.3-16
4.3.6 County Development Plan Impacts and Mitigation Measures 4.3-27
4.3.7 Cumulative Analysis 4.3-28
4.3.8 Mitigation Monitoring Plan 4.3-37
4.3.9 References 4.3-41
4.4 Land Use 4.4-1
4.4.1 Environmental Setting 4.4-2
4.4.2 Regulatory Setting – Applicable Land Use Plans, Policy, and Zoning 4.4-5
4.4.3 Significance Criteria 4.4-13
4.4.4 Remediation Project Analysis 4.4-14
4.4.5 City Development Plan Analysis 4.4-16

Page

4.4.6 County Development Plan Analysis 4.4-18
4.4.7 Cumulative Analysis 4.4-19
4.4.8 Mitigation Monitoring Plan 4.4-19
4.4.9 References 4.4-19
4.5 Water Resources 4.5-1
4.5.1 Environmental Setting 4.5-2
4.5.2 Regulatory Setting 4.5-15
4.5.3 Significance Criteria 4.5-17
4.5.4 Remediation Project Impacts and Mitigation Measures 4.5-18
4.5.5 City Development Plan Impacts and Mitigation Measures 4.5-31
4.5.6 County Development Plan Impacts and Mitigation Measures 4.5-34
4.5.7 Cumulative Analysis 4.5-43
4.5.8 Mitigation Monitoring Plan 4.5-44
4.5.9 References 4.5-48
4.6 Wastewater 4.6-1
4.6.1 Environmental Setting 4.6-1
4.6.2 Regulatory Setting 4.6-3
4.6.3 Significance Criteria 4.6-5
4.6.4 Remediation Project Impacts and Mitigation Measures 4.6-5
4.6.5 City Development Plan Impacts and Mitigation Measures 4.6-8
4.6.6 County Development Plan Impacts and Mitigation Measures 4.6-10
4.6.7 Cumulative Analysis 4.6-17
4.6.8 Mitigation Monitoring Plan 4.6-18
4.6.9 References 4.6-19
4.7 Geological and Soil Resources 4.7-1
4.7.1 Environmental Setting 4.7-1
4.7.2 Regulatory Setting 4.7-14
4.7.3 Significance Criteria 4.7-17
4.7.4 Remediation Project Impacts and Mitigation Measures 4.7-18
4.7.5 City Development Plan Impacts and Mitigation Measures 4.7-20
4.7.6 County Development Plan Impacts and Mitigation Measures 4.7-26
4.7.7 Cumulative Analysis 4.7-26
4.7.8 Mitigation Monitoring Plan 4.7-26
4.7.9 References 4.7-31
4.8 Noise and Vibration 4.8-1
4.8.1 Environmental Setting 4.8-1
4.8.2 Regulatory Setting 4.8-14
4.8.3 Significance Criteria 4.8-22
4.8.4 Remediation Project Impacts and Mitigation Measures 4.8-23
4.8.5 City Development Plan Impacts and Mitigation Measures 4.8-28
4.8.6 County Development Plan Impacts and Mitigation Measures 4.8-30
4.8.7 Cumulative Analysis 4.8-32
4.8.8 Mitigation Monitoring Plan 4.8-33
4.8.9 References 4.8-36

Page

4.9 Cultural Resources and Archaeology 4.9-1
4.9.1 Environmental Setting 4.9-2
4.9.2 Regulatory Setting 4.9-19
4.9.3 Significance Criteria 4.9-22
4.9.4 Remediation Project Impacts and Mitigation Measures 4.9-23
4.9.5 City Development Plan Impacts and Mitigation Measures 4.9-35
4.9.6 County Development Plan Impacts and Mitigation Measures 4.9-35
4.9.7 Cumulative Analysis 4.9-35
4.9.8 Mitigation Monitoring Plan 4.9-36
4.9.9 References 4.9-42
4.10 Aesthetics and Visual Resources 4.10-1
4.10.1 Environmental Setting 4.10-1
4.10.2 Regulatory Setting 4.10-9
4.10.3 Significance Criteria 4.10-17
4.10.4 Remediation Project Impacts and Mitigation Measures 4.10-17
4.10.5 City Development Plan Impacts and Mitigation Measures 4.10-20
4.10.6 County Development Plan Impacts and Mitigation Measures 4.10-27
4.10.7 Cumulative Analysis 4.10-28
4.10.8 Mitigation Monitoring Plan 4.10-30
4.10.9 References 4.10-31
4.11 Hazards and Hazardous Materials 4.11-1
4.11.1 Environmental Setting 4.11-1
4.11.2 Regulatory Setting 4.11-40
4.11.3 Significance Criteria 4.11-50
4.11.4 Remediation Project Impacts and Mitigation Measures 4.11-51
4.11.5 City Development Plan Impacts and Mitigation Measures 4.11-66
4.11.6 County Development Plan Impacts and Mitigation Measures 4.11-74
4.11.7 Cumulative Analysis 4.11-80
4.11.8 Mitigation Monitoring Plan 4.11-82
4.11.9 References 4.11-83
4.12 Population and Housing 4.12-1
4.12.1 Environmental Setting 4.12-1
4.12.2 Regulatory Setting 4.12-6
4.12.3 Significance Criteria 4.12-8
4.12.4 Remediation Project Impacts and Mitigation Measures 4.12-9
4.12.5 City Development Plan Impacts and Mitigation Measures 4.12-9
4.12.6 County Development Plan Impacts and Mitigation Measures 4.12-12
4.12.7 Cumulative Analysis 4.12-14
4.12.8 Mitigation Monitoring Plan 4.12-15
4.12.9 References 4.12-15
4.13 Public Services and Utilities 4.13-1
4.13.1 Environmental Setting 4.13-1
4.13.2 Regulatory Setting 4.13-13
4.13.3 Significance Criteria 4.13-17

Page

4.13.4 Remediation Project Impacts and Mitigation Measures 4.13-18
4.13.5 City Development Plan Impacts and Mitigation Measures 4.13-24
4.13.6 County Development Plan Impacts and Mitigation Measures 4.13-33
4.13.7 Cumulative Analysis 4.13-41
4.13.8 Mitigation Monitoring Plan 4.13-46
4.13.9 References 4.13-53
4.14 Recreation 4.14-1
4.14.1 Environmental Setting 4.14-1
4.14.2 Regulatory Setting 4.14-8
4.14.3 Significance Criteria 4.14-10
4.14.4 Remediation Project Impacts and Mitigation Measures 4.14-10
4.14.5 City Development Plan Impacts and Mitigation Measures 4.14-11
4.14.6 County Development Plan Impacts and Mitigation Measures 4.14-13
4.14.7 Cumulative Analysis 4.14-14
4.14.8 Mitigation Monitoring Plan 4.14-16
4.14.9 References 4.14-16
4.15 Agricultural Resources 4.15-1
4.15.1 Environmental Setting 4.15-1
4.15.2 Regulatory Setting 4.15-10
4.15.3 Significance Criteria 4.15-25
4.15.4 Impact Methodology 4.15-25
4.15.5 Remediation Project Impacts and Mitigation Measures 4.15-26
4.15.6 City Development Plan Impacts and Mitigation Measures 4.15-32
4.15.7 County Development Plan Impacts and Mitigation Measures 4.15-34
4.15.8 Cumulative Analysis 4.15-34
4.15.9 Mitigation Monitoring Plan 4.15-35
4.15.10 References 4.15-35

5.0 Alternatives Analysis 5-1
5.1 Description of Alternatives 5-2
5.1.1 No Project Alternative 5-3
5.1.2 Remediation/Restoration Alternatives 5-5
5.1.3 Development Alternatives 5-14
5.1.4 Transportation Alternatives 5-28
5.1.6 Other County Development Alternatives 5-31
5.2 Alternatives Screening Analysis 5-32
5.2.1 Remediation Alternatives 5-32
5.2.2 Development Alternatives 5-41
5.2.3 Transportation Alternatives 5-51
5.2.4 Other County Development Alternatives 5-56
5.3 Environmental Analysis of Selected Alternatives 5-56
5.3.1 No Project Alternative 5-57
5.3.2 Remedial Cap Replacement with Excavation 5-61
5.3.3 Reduced Development 5-67
5.4 Environmentally Superior Alternative 5-73

Page

5.4.1 Remediation 5-74
5.4.2 Development 5-75
5.5 References 5-86

6.0 Other CEQA-Mandated Sections 6-1
6.1 Significant Irreversible Environmental Changes That Would be Caused by the Proposed Project Should It Be Implemented 6-1
6.2 Growth-Inducing Impacts 6-1
6.2.1 Removal of an Impediment to Growth 6-2
6.2.2 Economic Growth 6-2
6.2.3 Precedent-Setting Action 6-2
6.2.4 Development of Open Space 6-3
6.3 Energy Conservation 6-3

Page

List of Figures

Figure 1-1 Location of the Project Site 1-2
Figure 2-1 Project Location 2-2
Figure 2-2 Project Site 2-4
Figure 2-3 Project Site Existing Pipelines 2-10
Figure 2-4 Airport Safety Zones 2-11
Figure 2-5 Water Monitoring Wells and Netted Areas 2-12
Figure 2-6 Project Site Existing Affected Areas 2-14
Figure 2-7 Proposed Remediation Areas 2-18
Figure 2-8 Reservoir 5 and 7 Remediation - Proposed Cap Cross Section 2-25
Figure 2-9 Reservoir 4 Remediation - Proposed Cap Cross Section 2-26
Figure 2-10 Reservoir 3 Remediation - Proposed Cap Cross Section 2-29
Figure 2-11 Miscellaneous Clean-up Areas 2-36
Figure 2-12 Proposed Work Areas, Staging Areas, and Site Access 2-39
Figure 2-13 Proposed Truck Routes 2-41
Figure 2-14 Proposed Borrow Sites 2-44
Figure 2-15 Conceptual Restoration Plan 2-55
Figure 2-16 Project Site Zoning Designations under the Existing City AASP 2-58
Figure 2-17 Proposed City Development Plan 2-59
Figure 2-18 Project Site Zoning Designations under the City Development Plan - Proposed Zoning Designations and Bike Paths 2-60
Figure 2-19 Possible Sports Fields Configuration 2-64
Figure 2-20 City Development Option Phasing 2-67
Figure 2-21 Existing County Land Use Designations 2-70
Figure 2-22 Proposed County Land Use Designations 2-71
Figure 2-23 County Development Option Phasing 2-75
Figure 2-24 Proposed Modification to the AASP Cluster Development Zone (CDZ) with Proposed Project Zoning 2-80
Figure 2-25 Proposed Modification to ACOS Reserve Spaces 2-82
Figure 2-26 Proposed ACOS Reserve Area Location Site Plan 2-83
Figure 2-27 City Development Plan - Lot Configuration and Phasing Map 2-85
Figure 2-28 County Development Plan - Lot Configuration and Phasing Map 2-88
Figure 3-1 Location of Tier I Cumulative Projects 3-5
Figure 4.1-1 Higuera Street Meteorological Station Wind Rose - 2008 ..... 4.1-7
Figure 4.1-2 Areas Requiring Asbestos ATCM Geological Analysis and Requirements 4.1-10
Figure 4.1-3 California Greenhouse Gas Emissions 4.1-16
Figure 4.2-1 Overview of Watersheds that Impact Chevron Tank Farm Property – Existing Conditions 4.2-5
Figure 4.2-2 Plant Communities on the Project Site 4.2-8
Figure 4.2-3 Wetlands and Vernal Pool Fairy Shrimp Habitat 4.2-11
Figure 4.2-4 Geographic Distribution of Plant Species of Concern 4.2-23
Figure 4.3-1 Study Area Intersections 4.3-2
Figure 4.3-2 Existing a.m. Peak Hour Traffic Volumes 4.3-6
Figure 4.3-3 Existing p.m. Peak Hour Traffic Volumes 4.3-7

Page

Figure 4.3-4 Proposed Truck Routes 4.3-15
Figure 4.3-5 Project Trip Distribution 4.3-18
Figure 4.3-6 Project Trip Assignment (a.m./p.m.) 4.3-19
Figure 4.3-7 Cumulative AM Traffic Volumes Without Project 4.3-29
Figure 4.3-8 Cumulative PM Traffic Volumes Without Project 4.3-30
Figure 4.4-1 Project Site and Context Map 4.4-3
Figure 4.4-2 Existing Land Use 4.4-4
Figure 4.4-3 County of San Luis Obispo County Land Use Categories 4.4-8
Figure 4.4-4 City of San Luis Obispo Land Use Designations 4.4-12
Figure 4.5-1 SLO Valley Watersheds and Groundwater Basin 4.5-3
Figure 4.5-2 Overview of the Watersheds that Relate to the Chevron Tank Farm Property Site 4.5-4
Figure 4.5-3 On-site Isolated Catchments Existing Conditions 4.5-9
Figure 4.5-4 100-Year Flood Plain Existing Conditions 4.5-10
Figure 4.5-5 Project Site Groundwater Elevation Contours and Well Locations 4.5-13
Figure 4.5-6 Overview of Watersheds for Tank Farm Project Site Post Remediation |and Development 4.5-25
Figure 4.5-7 Illustration of Typical Post Remediation Tank Farm Creek Channel 4.5-26
Figure 4.5-8 On-site Isolated Catchments Post Remediation and Development 4.5-30
Figure 4.5-9 100-Year Flood Plan Post Remediation and Development 4.5-35
Figure 4.6-1 Proposed Location of Wastewater Treatment Facility-County Development Plan 4.6-11
Figure 4.7-1 Regional Geologic Map 4.7-3
Figure 4.7-2 Boring Location Map 4.7-4
Figure 4.8-1 Sensitive Receptors and Noise Monitoring Locations near the Project Site . 4.8-9
Figure 4.8-2 Airport Land Use Plan Single Event Noise Contours at Runway Capacity 4.8-11
Figure 4.8-3 Airport Land Use Plan CNEL Noise Contours at Runway Capacity 4.8-12
Figure 4.8-4 Land Use Compatibility for New Development Near Transportation Noise Sources 4.8-17
Figure 4.9-1 Drawing of Mission San Luis Obispo, 1793 ..... 4.9-8
Figure 4.9-2 Lithograph of San Luis Obispo, 1865 ..... 4.9-10
Figure 4.10-1 Key Viewing Locations 4.10-3
Figure 4.10-2 Key Viewing Location No. 1 from Tank Farm Road west of the Project Site - Current 4.10-4
Figure 4.10-3 Key Viewing Location No. 2 from Tank Farm Road near the middle of the Project Site - Current 4.10-5
Figure 4.10-4 Key Viewing Location No. 3 from Tank Farm Road at the east end of the Project Site - Current 4.10-6
Figure 4.10-5 Key Viewing Location No. 4 from Broad Street (State Route 227) north of the Project Site – Current 4.10-7
Figure 4.10-6 Key Viewing Location No. 5 from Tank Farm Road near the middle of the Project Site – Current 4.10-8
Figure 4.10-7 BLM Visual Inventory Class Determination 4.10-10
Figure 4.10-8 USDA Scenic Class Determination 4.10-11

Page

Figure 4.10-9 Key Viewing Location No. 1 from Tank Farm Road west of the Project Site - Proposed 4.10-21
Figure 4.10-10 Key Viewing Location No. 2 from Tank Farm Road near the middle of the Project Site – Proposed 4.10-22
Figure 4.10-11 Key Viewing Location No. 3 from Tank Farm Road at the east end of the Project Site – Proposed 4.10-23
Figure 4.10-12 Key Viewing Location No. 4 from Broad Street (State Route 227) north of the Project Site - Proposed 4.10-24
Figure 4.10-13 Key Viewing Location No. 5 from Tank Farm Road near the middle of the Project Site looking southwest - Proposed 4.10-29
Figure 4.11-1 Soil Sampling Locations 4.11-9
Figure 4.11-2 Soil Gas Sampling Locations 4.11-11
Figure 4.11-3 Surface and Ground Water Sampling Locations 4.11-14
Figure 4.11-4 Allowable Population Densities within the SLOCRA Aviation Safety Areas 4.11-33
Figure 4.11-5 Number of Wildlife Strikes at Primary Commercial Airports in California (1990-2010) 4.11-35
Figure 4.11-6 Number of Take-off and Landings per Strike at Primary Commercial Airports in California (1990-2010) 4.11-36
Figure 4.11-7 Number of Wildlife Strikes at SLOCRA 4.11-37
Figure 4.11-8 Number of Wildlife Strikes at SLOCRA by Phase of Flight 4.11-38
Figure 4.11-9 Effect of Wildlife Strike on Aircraft Flight at SLOCRA 4.11-38
Figure 4.11-10 Level of Damage to Aircraft from Wildlife Strike at SLOCRA 4.11-39
Figure 4.11-11 Wastewater Treatment Facility Chlorine and Sulfur Dioxide Hazards 4.11-75
Figure 4.11-12 Airport Safety Areas and Proposed Wastewater Treatment Facility 4.11-77
Figure 4.13-1 Public Services 4.13-2
Figure 4.14-1 City of San Luis Obispo Existing Parks and Recreation Facilities 4.14-4
Figure 4.14-2 City of San Luis Obispo Existing and Proposed Bicycle Transportation Plans 4.14-6
Figure 4.15-1 Existing Uses of Land 4.15-6
Figure 4.15-2 Farmland Classification 4.15-7
Figure 4.15-3 California Revised Storie Index 4.15-7
Figure 4.15-4 City's Margarita Area Specific Plan 4.15-9
Figure 4.15-5 Project Development on Prime Farmland 4.15-27
Figure 5-1 Mass Excavation Areas 5-7
Figure 5-2 Excavation Areas for Remedial Cap Replacement with Excavation 5-12
Figure 5-3 Development Plan Consistent with City Airport Area Specific Plan 5-16
Figure 5-4 Development Plan Consistent with County General Plan 5-20
Figure 5-5 Reduced City Development Plan 5-23
Figure 5-6 Reduced County Development Plan 5-26
Figure 5-7 Location of Transportation Alternatives 5-29

Page

List of Tables

Table 2-1 Proposed Remediation by Operable Unit 2-21
Table 2-2 Borrow Site Quantities 2-43
Table 2-3 Area Grading and Earthwork Quantities 2-48
Table 2-4 Employee Requirements for Remediation 2-49
Table 2-5 Equipment Requirements for Remediation 2-49
Table 2-6 Remediation Traffic Levels 2-50
Table 2-7 Monitoring Traffic Levels 2-51
Table 2-8 City Development Plan Summary 2-62
Table 2-9 Possible Development Land Use Mix- City Development Option 2-63
Table 2-10 Development Construction Equipment (per phase) 2-66
Table 2-11 City Development Plan Traffic Generation by Phase 2-68
Table 2-12 City Development Plan Possible Build-Out – Water Use and Traffic 2-69
Table 2-13 County Development Plan Summary 2-73
Table 2-14 Possible Development Land Use Mix- County Development Option 2-74
Table 2-15 County Development Plan Traffic Generation by Phase 2-76
Table 2-16 County Development Plan Possible Build-Out – Water Use and Traffic 2-77
Table 2-17 San Luis Obispo City Development Plan Comparison of Existing AASP and Proposed Land Uses and Acreage for the Project Site 2-78
Table 2-18 San Luis Obispo County General Plan Amendment/Zone Change Comparison of Existing and Proposed Land Use and Acres 2-87
Table 2-19 Anticipated Federal, State, and Local Permits 2-89
Table 3-1 List of Tier I Cumulative Projects (Specific Projects) 3-3
Table 3-2 List of Tier II Cumulative Projects (Area and General Plans) 3-6
Table 4.1-1 State and National Criteria Air Pollutant Standards, Effects, and Sources ... 4.1-3
Table 4.1-2 Monitoring Results at the Higuera Street Monitoring Station 4.1-6
Table 4.1-3 Attainment Status of Criteria Pollutants in the South Central Coast Air Basin 4.1-6
Table 4.1-4 San Luis Obispo County Ozone Precursors and PM Emissions by Source ... 4.1-8
Table 4.1-5 Global Warming Potential of Various Gases 4.1-13
Table 4.1-6 Electricity Generation Resource Mix and Greenhouse Gas Emissions 4.1-15
Table 4.1-7 Current Activities Emissions 4.1-17
Table 4.1-8 SLOAPCD Thresholds of Significance for Operational Emissions Impacts 4.1-26
Table 4.1-9 SLOAPCD Thresholds of Significance for Construction Emissions Impacts 4.1-26
Table 4.1-10 SLOAPCD Board-Approved GHG Thresholds For SLO County 4.1-27
Table 4.1-11 Unmitigated Remediation Emissions 4.1-30
Table 4.1-12 Remediation Emissions Mitigated 4.1-34
Table 4.1-13 City Development Plan Construction Emissions by Phase 4.1-42
Table 4.1-14 City Development Plan Operational Emissions by Phase 4.1-43
Table 4.1-15 City Development Plan Operational Emissions by Phase - Mitigated 4.1-47
Table 4.1-16 City Development Plan Operational GHG Emissions by Phase 4.1-49
Table 4.2-1 Definitions of Plants Species of Concern 4.2-13

Page

Table 4.2-2 Regional Plant Species of Concern 4.2-16
Table 4.2-3 Definitions of Wildlife Species of Concern 4.2-25
Table 4.2-4 Regional Wildlife Species of Concern 4.2-26
Table 4.2-5 Estimated Impacts to Rare Plant Species and Sensitive Habitat Areas 4.2-46
Table 4.2-6 Estimated Impacts to Sensitive Vernal Pool Fairy Shrimp Habitat 4.2-47
Table 4.2-7 Estimated Impacts to Wetlands/Waters of the U.S. including Federal and State Wetlands 4.2-58
Table 4.2-8 Preliminary Habitat Impacts of Remediation Project 4.2-62
Table 4.2-9 Estimated Impacts to Rare Plant Species and Sensitive Habitat Areas 4.2-67
Table 4.2-10 Area of Development Phase Wetland Impacts 4.2-70
Table 4.3-1 Intersection Levels of Service & Delay 4.3-8
Table 4.3-2 Corridor Level of Service Thresholds 4.3-8
Table 4.3-3 Freeway Segment Level of Service Thresholds 4.3-9
Table 4.3-4 Existing Conditions, Level of Service Summary 4.3-9
Table 4.3-5 Existing Conditions, Corridor Summary 4.3-10
Table 4.3-6 Existing Conditions, Freeway Segments 4.3-10
Table 4.3-7 Estimated Project Traffic Generation- City Development Plan 4.3-17
Table 4.3-8 Existing Plus Project, Intersection Conditions 4.3-20
Table 4.3-9 Existing Plus Project, Corridor Summary 4.3-21
Table 4.3-10 Existing Plus Project, Freeway Conditions 4.3-21
Table 4.3-11 County Development Plan Trip Generation Comparison 4.3-27
Table 4.3-12 Cumulative Plus Project, Intersection Conditions 4.3-31
Table 4.3-13 Cumulative Plus Project Conditions, Corridor Summary 4.3-33
Table 4.3-14 Cumulative Plus Project, Freeway Conditions 4.3-34
Table 4.5-1 Summary Of Peak Surface Water Flows – Existing Conditions 4.5-6
Table 4.5-2 Summary Of Peak Flows and Volumes for Tank Farm Creek Off-site Discharge - Existing Conditions 4.5-7
Table 4.5-3 Estimated Water Demand for Remediation and Restoration by Year (acre-feet per year) 4.5-20
Table 4.5-4 Water Level Interference 4.5-21
Table 4.5-5 Estimated Changes to Ground Water Storage in Vicinity of Project Site 4.5-21
Table 4.5-6 Summary Of Peak Surface Water Flows – Post Remediation Conditions 4.5-28
Table 4.5-7 Summary Of Peak Flows and Volumes for Tank Farm Creek Off-site Discharge – Post Remediation and Development Conditions 4.5-28
Table 4.5-8 Summary Of Peak Surface Water Flows – Post Development Conditions 4.5-33
Table 4.5-9 Water Supply Requirements for Full Development 4.5-36
Table 4.5-10 Project Groundwater Extractions by Development Phase (acre-feet per year) 4.5-37
Table 4.5-11 Long-Term Yield and Source Capacity for Groundwater Wells 4.5-38
Table 4.6.1 Estimated Wastewater Flows for the City Tank Farm Development Plan, Non-drought Year 4.6-9
Table 4.6.2 Estimated Wastewater Flows for the County Tank Farm Development, Non-drought Year 4.6-13

Page

Table 4.6.3 Estimated Seasonal Recycled Water Supply and Demand, Wet Year – County Development Option 4.6-14
Table 4.7-1 Partial List of Nearby Regional Faults 4.7-6
Table 4.8-1 Representative Environmental Noise Levels 4.8-4
Table 4.8-2 Typical Levels of Ground-Borne Vibration 4.8-8
Table 4.8-3 Roadway Noise Levels: Noise Element and Calculated Current 4.8-10
Table 4.8-4 Existing Ambient Noise Levels Near the Project Site 4.8-14
Table 4.8-5 Noise Element Maximum Allowable Noise Exposure - Stationary Sources 4.8-16
Table 4.8-6 Noise Element Maximum Allowable Noise Exposure - Transportation Sources 4.8-18
Table 4.8-7 City of San Luis Obispo Construction Noise Limits 4.8-21
Table 4.8-8 City of San Luis Obispo Exterior Noise Limits 4.8-21
Table 4.8-9 Equipment and Noise Impacts on Mobile Home Park – Reservoir 4 and Flower Mound Activities 4.8-25
Table 4.8-10 Roadway Noise Levels: With Project 4.8-29
Table 4.8-11 Sound Loss by Various Noise Barrier Materials 4.8-32
Table 4.9-1 Chevron Tank Farm Features and Testing Procedures 4.9-14
Table 4.9-2 Native American Contacts for the Chevron Tank Farm Project 4.9-17
Table 4.9-3 Paleontological Sensitivity Categories 4.9-24
Table 4.9-4 Project Site Features and CRHR Significance Determinations 4.9-28
Table 4.10-1 Indicators of Visual Sensitivity 4.10-11
Table 4.11-1 Summary of Project Site 2004 Baseline HHRA Results 4.11-28
Table 4.11-2 Planning Requirements and Density Adjustments for Land Uses within the SLOCRA Aviation Safety Areas 4.11-32
Table 4.11-3 Summary of Potential Health Effects Associated with Development Areas 4.11-53
Table 4.11-4 Zoning Breakdown of CDZ Area 4.11-69
Table 4.11-5 Population Density Calculations for City Development Plan 4.11-71
Table 4.11-6 Population Density Calculations for County Development Plan 4.11-79
Table 4.12-1 SLOCOG Medium Population Growth Estimate, 2010 to 2040 ..... 4.12-2
Table 4.12-2 County of San Luis Obispo Household Population Growth Estimates 4.12-3
Table 4.12-3 City/County Census Housing Counts in San Luis Obispo City and County, 2010 ..... 4.12-3
Table 4.12-4 Projected Housing Need By Income 4.12-5
Table 4.12-5 SLOCOG Medium County Non-Farm Employment Estimates, 2010 to 2040 ..... 4.12-6
Table 4.12-6 Jobs/Housing Imbalance 2010 ..... 4.12-6
Table 4.12-7 City Project Employee Generation 4.12-9
Table 4.12-8 City Project Jobs/Housing Ratio Estimate 4.12-10
Table 4.12-9 County Project Employee Generation 4.12-12
Table 4.12-10 County Project Jobs/Housing Ratio Estimate 4.12-12
Table 4.13-1 San Luis Obispo County Electricity and Gas Consumption 4.13-8
Table 4.13-2 PG&E Planning Area Electricity Consumption (Millions of kWh) 4.13-9

Page

Table 4.13-3 SCG Planning Area Gas Consumption (Millions of Therms) 4.13-9
Table 4.13-4 San Luis Obispo County Class III Landfill Capacity and Usage..... 4.13-11
Table 4.13.5 City Water Source Availability..... 4.13-13
Table 4.13-6 Estimated Project Electricity Usage – City Development Plan 4.13-28
Table 4.13-7 Estimated Natural Gas Usage – City Development Plan..... 4.13-29
Table 4.13-8 City Development Plan - Solid Waste Generation Estimates 4.13-30
Table 4.13-9 Estimated Project Electricity Usage – County Development Plan 4.13-36
Table 4.13-10 Estimated Natural Gas Usage – County Development Plan..... 4.13-37
Table 4.13-11 County Development Plan - Solid Waste Generation Estimates 4.13-39
Table 4.14-1 Existing Park Acreage..... 4.14-2
Table 4.14-2 Existing and Proposed County Bikeways – City of San Luis Obispo Fringe..... 4.14-5
Table 4.14-3 1983 National Recreation and Park Association Standards for Parks 4.14-7
Table 4.15-1 Soil Characteristics and Farmland Classifications..... 4.15-6
Table 5-1 Area Grading and Earthwork Quantities – No Project Alternative 5-4
Table 5-2 Area Grading and Earthwork Quantities – Mass Excavation 5-8
Table 5-3 Area Grading and Earthwork Quantities – Replace Remedial caps with Excavation..... 5-13
Table 5-4 Estimated Traffic, Water Use and Wastewater for Residential Development 5-15
Table 5-5 Possible Development Land Use Mix- City AASP Development..... 5-17
Table 5-6 Estimated Traffic, Water Use and Wastewater for City AASP Development..... 5-18
Table 5-7 Possible Development Land Use Mix- County General Plan Development .. 5-19
Table 5-8 Estimated Traffic, Water Use and Wastewater for County General Plan Development 5-21
Table 5-9 Possible Development Land Use Mix - Reduced City Development Plan..... 5-24
Table 5-10 Estimated Traffic, Water Use and Wastewater - Reduced City Development Plan 5-24
Table 5-11 Possible Development Land Use Mix - Reduced County Development Plan 5-27
Table 5-12 Estimated Traffic, Water Use and Wastewater - County Development Plan 5-28
Table 5-13 Comparison of Remediation Alternatives with the Proposed Project 5-35
Table 5-14 Comparison of Development Alternatives with the Proposed Project 5-43
Table 5-15 Comparison of Transportation Alternatives with the Proposed Project 5-53
Table 5-16 Remediation Emissions-No Project Alternative-Mitigated 5-59
Table 5-17 Estimated Water Demand for Remediation and Restoration by Year (acre-feet per year)-No Project Alternative..... 5-61
Table 5-18 Remediation Emissions-Remedial Cap Replacement with Excavation Alternative-Mitigated..... 5-63
Table 5-19 Development Construction Emissions by Phase-Reduced Development Alternative 5-69

Page

Table 5-20 Development Operational Emissions by Phase-Reduced Development Alternative-Mitigated 5-70
Table 5-21 Comparison of Proposed Project and Alternative Impacts 5-78

Volume II – Response to Comments (CD only)

Volume III – Technical Appendices (CD only)

Appendix A – Project Description Information
- A.1 Remedial Action Plan (Applicant Prepared)
- A.2 Wastewater Treatment and Disposal Feasibility Assessment (Applicant Prepared)
- A.3 Other Figures and Drawings (Applicant Prepared)

Appendix B – Air Quality and Greenhouse Gases
- B.1 Air and Greenhouse Gas Emission Calculations and Methodology
- B.2 Naturally Occurring Asbestos Report (Applicant Prepared)

Appendix C – Biological Resources
- C.1 Phase I Biological Resources Studies (Applicant Prepared)
- C.2 Phase II Biological Resources Studies (Applicant Prepared)
- C.3 Phase III Biological Resources Studies (Applicant Prepared)
- C.4 Comprehensive Fairy Shrimp Wet and Dry Season Survey Reports (Applicant Prepared)
- C.5 Protocol-Level California Red-Legged Frog Survey Report (Applicant Prepared)
- C.6 Burrowing Owl Survey Report (Applicant Prepared)
- C.7 Description and Analysis of the Botanical Resources at the Chevron Tank Farm Facility (Applicant Prepared)
- C.8 An Analysis of the Geographic Extent of Waters of the US (Applicant Prepared)
- C.9 Operational Guidebook to Assessment of the Riverine Waters/Wetland Functions (Applicant Prepared)
- C.10 Santa Fe Road Realignment Biological Assessment
- C.11 Biological Resource Survey Letter-Report for the Off-Site Flower Mound Impact Area (Applicant Prepared)
- C.12 75% Basis of Design Report- Landscape Restoration (Applicant Prepared)
- C.13 90-Day VPFS 2012 Report (Applicant Prepared)
- C.14 California Red-Legged Frog 2012 Survey Report (Applicant Prepared)
- C.15 Wetland Disturbance Calculations Memo (Applicant Prepared)

Appendix D – Traffic Analysis Report

Appendix E – Preliminary Policy Consistency Analysis

Appendix F – Hydrology Study (Applicant Prepared)

Appendix G – Water Supply Assessment Reports
- G.1 City of San Luis Obispo Water Supply Assessment
- G.2 County Development Project Water Supply Assessment
- G.3 Former Chevron San Luis Obispo Tank Farm Proposed Development-Use of Groundwater as a Source of Potable Water

Appendix H – Risk Assessment Documents
- H.1 Tank Farm Human Health Risk Assessment (Applicant Prepared)

H.2 Letter from Agency on Adequacy of Human Health Risk Assessment
H.2 Predictive Ecological Risk Assessment (Applicant Prepared)
H.3 Report on Shallow Soil Assessment Activities for Arsenic, Northeast of Reservoir 2, Former San Luis Obispo Tank Farm (Applicant Prepared)
H.4 Arsenic Assessment (Applicant Prepared)

Appendix I – Notice of Preparation (NOP) and NOP Comment Letters

Appendix J – List of Mitigation Measures

Appendix K – Draft Mitigation Monitoring Plan

Appendix L – List of EIR Preparers List of Abbreviations and Acronyms

Appendix M – Persons and Agencies Contacted

Appendix N – List of Abbreviations and Acronyms

The appendices are voluminous, and are therefore provided in electronic format on the CD attached to the inside front cover of the EIR notebook.