

TABLE OF CONTENTS

Chapter/Section	Page
Volume I: DEIR/DEIS	
Executive Summary.....	ES-1
ES.1 Introduction	ES-1
ES.2 Lead Agencies	ES-1
ES.3 Type of Environmental Impact Report/Environmental Impact Statement	ES-1
ES.4 Requested Entitlements	ES-1
ES.5 Project Characteristics	ES-2
ES.6 Summary of Significant Impacts and Mitigation Measures	ES-3
ES.7 Alternatives	ES-3
ES.8 Known Areas of Controversy.....	ES-3
ES.9 Public Participation and Additional Steps in the CEQA/NEPA Review Process	ES-5
1 Introduction and Statement of Purpose and Need	1-1
1.1 Project Requiring Environmental Analysis	1-1
1.2 Project History and Planning Context.....	1-2
1.3 Project Purpose, Need, and Objectives.....	1-3
1.4 Intended Uses and Type of Environmental Impact Report/Environmental Impact Statement....	1-5
1.5 Scope and Focus of the Environmental Impact Report/Environmental Impact Statement	1-7
1.6 Agency Roles and Responsibilities	1-8
1.7 Public Participation and Additional Steps in the CEQA/NEPA Review Process	1-10
1.8 Organization of this Environmental Impact Report/Environmental Impact Statement.....	1-11
1.9 Documents Relied on in Preparation of the Environmental Impact Report/ Environmental Impact Statement	1-12
1.10 Standard Terminology, Acronyms, and Abbreviations	1-14
2 Alternatives	2-1
2.1 Introduction	2-1
2.2 CEQA/NEPA Requirements for Evaluation of Alternatives.....	2-1
2.3 Proposed Project/Action.....	2-4
2.4 High Density Alternative.....	2-57
2.5 Impact Minimization Alternative	2-58
2.6 No Federal Action Alternative	2-63
2.7 No Project Alternative	2-64
2.8 Off-Site Alternatives	2-71
2.9 Reduced Preserve Alternative	2-79
2.10 Increased Preserve/No Regional Town Center Alternative.....	2-79
2.11 Significant Traffic Impact Avoidance Alternative	2-81
2.12 Environmentally Superior Alternative	2-82
3 Affected Environment, Environmental Consequences, and Mitigation Measures.....	3-1
3.0 Approach to the Environmental Analysis.....	3-1
3.1 Land Use	3.1-1
3.2 Population, Employment, and Housing.....	3.2-1
3.3 Environmental Justice	3.3-1
3.4 Drainage, Hydrology, and Water Quality.....	3.4-1
3.5 Utilities and Services Systems	3.5-1

TABLE OF CONTENTS (continued)

Chapter/Section		Page
3.6	Public Services	3.6-1
3.7	Geology, Soils, and Mineral Resources	3.7-1
3.8	Paleontological Resources.....	3.8-1
3.9	Cultural Resources	3.9-1
3.10	Biological Resources	3.10-1
3.11	Visual Resources	3.11-1
3.12	Parks and Recreation	3.12-1
3.13	Hazards and Hazardous Materials	3.13-1
3.14	Traffic and Transportation.....	3.14-1
3.15	Air Quality.....	3.15-1
3.16	Noise.....	3.16-1
4	Other Statutory Requirements.....	4-1
4.1	Cumulative Impact Methodology, Contributing Projects, List of Related Projects, and Context	4-1
4.2	Growth-Inducing Impacts.....	4-12
4.3	Irreversible and Irretrievable Commitment of Resources	4-19
4.4	Relationship between Short-Term Use of the Environment and the Maintenance and Enhancement of Long-Term Productivity.....	4-19
4.5	Unavoidable and Adverse Environmental Effects.....	4-20
5	References and Organizations and Persons Consulted.....	5-1
6	Report Preparers	6-1
7	Index	7-1

Technical Appendices

Volume II

- A Initial Study
- B Scoping Report for the Rio del Oro Development Project
- C Proposed Draft Wetland Mitigation and Monitoring Plan and Valley Elderberry Longhorn Beetle Mitigation Plan
- D Rio del Oro Specific Plan Project Amended Water Supply Assessment
- E Rio del Oro Habitat Assessment
- F Consistency of the Rio del Oro Project with the City of Rancho Cordova General Plan

Volume III

- G Draft Historic Building and Structures Inventory
- H Native American Consultation
- I Additional Traffic Analysis Scenarios
- J Projected Traffic Volume Changes with International Drive Realignment
- K Air Quality Assumptions and Modeling Data
- L Rio del Oro Air Quality and Emissions Reduction Plan
- M Traffic Noise Measurements

TABLE OF CONTENTS (continued)

Exhibits

2-1	Regional Location	2-5
2-2	Local Project Setting	2-6
2-3	Project Vicinity Map	2-7
2-4	Proposed Project Alternative Land Use Plan	2-9
2-5	Draft Lotting Plan for NEPA Project-Level Review.....	2-11
2-6a	On-Site Drainage System	2-17
2-6b	Off-Site Drainage System.....	2-19
2-7	Rio del Oro Culvert Crossing Design.....	2-23
2-8	Typical Con-Span Design Detail.....	2-24
2-9a	On-Site Water Supply Facilities.....	2-27
2-9b	Off-Site Water Supply Facilities, Full Project Build-out	2-29
2-9c	Off-Site Water Supply Facilities, Phase 1	2-31
2-10a	On-Site Sewer Facilities	2-35
2-10b	Existing Sewersheds and Off-Site Sewer Facilities	2-37
2-10c	Interim Sewer Facilities.....	2-39
2-11	Draft Electrical Facilities Plan.....	2-43
2-12	Roadway Circulation Plan.....	2-45
2-13	Bikeway and Trails Plan.....	2-47
2-14	Phasing Plan	2-49
2-15	Proposed Rio del Oro Combined High School/Middle School Conceptual Site Plan	2-53
2-16	High Density Alternative Land Use Plan	2-59
2-17	Impact Minimization Alternative Land Use Plan.....	2-61
2-18	No Federal Action Alternative	2-65
2-19	Aggregate Mining Locations.....	2-68
2-20	Habitat Types at the Off-Site Alternative – Southeast Site	2-73
2-21	Habitat Types at the Off-Site Alternative – Northwest Site	2-75
3.1-1	SACOG Preferred Blue Print Scenario	3.1-11
3.1-2	City of Rancho Cordova General Plan Land Use Map	3.1-16
3.4-1	Awareness Floodplain Map.....	3.4-2
3.4-2	Watersheds in the Project Area	3.4-5
3.7-1	Geologic Formations	3.7-2
3.7-2	Project Site Soil Types	3.7-7
3.9-1	Area of Increased Sensitivity for Cultural Resources	3.9-4
3.9-2	Historic Sites	3.9-7
3.10-1	Habitat Types at the Rio del Oro Project Site	3.10-3
3.10-2	CNDDB Special-Status Wildlife Occurrences within 3 Miles of Rio del Oro Project Site	3.10-15
3.10-3	Proposed Preserves at the Rio del Oro Project Site.....	3.10-23

TABLE OF CONTENTS (continued)

Exhibits

3.11-1 Viewpoint Locations	3.11-2
3.11-2 Representative Photographs of On-Site Features	3.11-3
3.11-3 Representative Photographs of On-Site Features	3.11-4
3.11-4 Representative Photographs of On-Site and Off-Site Features	3.11-5
3.11-5 Representative Photographs of On-Site and Off-Site Features	3.11-6
3.11-6 Representative Photographs of On-Site and Off-Site Features	3.11-7
3.12-1 Existing and Proposed Park and Recreation Facility Locations.....	3.12-3
3.13-1 Map of Areas Subject to Remedial Investigation and Feasibility Study (RI/FS).....	3.13-3
3.13-2 Groundwater Study Area.....	3.13-13
3.14-1 Existing Roadway Network.....	3.14-3
3.14-2 Peak Hour Traffic Volumes, Lane Configurations, and Traffic Control – Existing Conditions	3.14-9
3.14-3 Average Daily Traffic Volumes – Existing Conditions	3.14-11
3.14-4 Existing Transit Service	3.14-12
3.14-5a Number of Lanes – Baseline Conditions	3.14-27
3.14-5b Number of Lanes – Cumulative (2030) Conditions	3.14-28
3.14-6 City of Rancho Cordova Circulation Element Plan Roadway Network.....	3.14-29
3.14-7 Peak Hour Traffic Volumes, Lane Configurations, and Traffic Control – Baseline No Project Conditions.....	3.14-33
3.14-8 Peak Hour Traffic Volumes, Lane Configurations, and Traffic Control – Baseline Plus Phase 1 Conditions.....	3.14-35
3.14-9 Peak Hour Traffic Volumes, Lane Configurations, and Traffic Control – Baseline Plus Full Buildout Conditions	3.14-37
3.14-10 Average Daily Traffic Volumes, Baseline Plus Phase 1 Conditions.....	3.14-39
3.14-11 Average Daily Traffic Volumes, Baseline Plus Full Buildout Conditions.....	3.14-41
3.14-12 Peak Hour Traffic Volumes, Lane Configurations, and Traffic Control – Cumulative No Project Conditions.....	3.14-81
3.14-13 Peak Hour Traffic Volumes, Lane Configurations, and Traffic Control – Cumulative Plus Full Buildout Conditions.....	3.14-83
3.14-14 Average Daily Traffic Volumes – Cumulative Plus Full Buildout Conditions.....	3.14-85
3.16-1 Typical Noise Levels	3.16-2
3.16-2 Adopted Mather Airport Land Use Compatibility Plan Noise Contours (1997).....	3.16-6
3.16-3 Proposed Mather Airport Land Use Compatibility Plan Noise Contours (2005).....	3.16-7
4-1 Proposed and Approved Development in the Project Vicinity.....	4-3
4-2 Related Projects Used in the Cumulative Impact Analysis	4-5

TABLE OF CONTENTS (continued)

Tables

ES-1	Summary of the Program and Project Level (Phase 1) Impacts and Mitigation Measures Proposed Project and Alternatives under Consideration	ES-8
1-1	Acronyms and Other Abbreviations	1-14
2-1	Acres of Proposed Rio del Oro Project Land Uses by Specific Plan Development Phase.....	2-14
2-2	Waters of the United States and Wetlands at the Project Site	2-22
2-3	Rio del Oro Off-Site Infrastructure Improvements	2-26
2-4	Acreage of Proposed Rio del Oro Specific Plan Land Uses—Development Phase 1	2-51
2-5	Project Site Improvements for Rio del Oro Specific Plan Development Phase 1	2-54
2-6	Summary Comparison of Residential Development under the High Density Alternative and the Proposed Project Alternative	2-58
2-7	Summary Comparison of Commercial and Industrial Development under the High Density Alternative and the Proposed Project Alternative	2-58
2-8	Summary Comparison of Residential Development under the Impact Minimization Alternative and the Proposed Project Alternative	2-63
2-9	Summary Comparison of Commercial and Industrial Development under the Impact Minimization Alternative and the Proposed Project Alternative	2-63
2-10	Summary Comparison of Residential Development under the No Federal Action Alternative and the Proposed Project Alternative	2-64
2-11	Summary Comparison of Commercial and Industrial Development under the No Federal Action Alternative and the Proposed Project Alternative	2-64
2-12	Summary of Potential Impacts from Ongoing Mining Activities for the Approved Grantline West and Aerojet Mining Amendment Conditional Use Permits under the No Project Alternative.....	2-69
2-13	Natural Community Types at the Southeast Off-Site Alternative Location.....	2-77
2-14	Natural Community Types at the Northwest Off-Site Alternative Location.....	2-77
2-15	Roadway Segment Significant Impacts—Cumulative (Year 2030) Conditions	2-81
2-16	Comparative Summary of Characteristics of the Proposed Project and the Three Action Alternatives	2-82
2-17	Comparison of Impacts of the Proposed Project After Mitigation Implementation to those of the Alternatives Under Consideration	2-83
3.1-1	Rancho Cordova General Plan Land Use Designations for the Project Site and Adjacent Lands	3.1-17
3.1-2	Proposed Rio del Oro Specific Plan Land Use and Zoning Designations.....	3.1-19
3.2-1	City of Rancho Cordova Regional Housing Needs Allocation for 2000–2007.....	3.2-2
3.2-2	Historical and Projected Jobs/Housing Balance for Sacramento County (1990–2025)	3.2-3
3.2-3	Historic and Projected Jobs/Housing Balance for the City of Rancho Cordova (1990–2025).....	3.2-4
3.2-4	Rio del Oro Project Residential Population Projections (Program)	3.2-9
3.2-5	Rio del Oro Project Residential Population Projections (Phase 1).....	3.2-13
3.2-6	Existing, Proposed, and Approved Development in the City of Rancho Cordova and its Planning Areas for Buildout in 2030	3.2-16
3.3-1	Poverty Statistics within 6 Miles of the Project Site	3.3-5
3.3-2	Race Statistics within 6 Miles of the Project Site.....	3.3-7

TABLE OF CONTENTS (continued)

Tables

3.4-1	Folsom South Canal Crossings—Contributing Area, Capacity, and Peak Flows	3.4-3
3.4-2	Watersheds that Contribute Flow through the Project Site	3.4-4
3.4-3	Water Quality Summary for Morrison Creek Samples	3.4-8
3.4-4	Existing and Projected Peak Flows at Folsom South Canal Crossings under the Rio del Oro Project	3.4-19
3.5-1	SCWA Zone 40 Current and Projected Water Demands	3.5-2
3.5-2	Summary of Program Level Land Use and Water Demands, Proposed Project Alternative	3.5-12
3.5-3	Summary of Program Level Land Use and Water Demands, High Density Alternative	3.5-13
3.5-4	Summary of Program Level Land Use and Water Demands, Impact Minimization Alternative.....	3.5-13
3.5-5	Summary of Program Level Land Use and Water Demands, No Federal Action Alternative.....	3.5-14
3.5-6	Normal-Year Comparison of Water Supply and Demand (AFY)	3.5-15
3.5-7	Dry-Year Comparison of Water Supply and Demand (AFY).....	3.5-15
3.5-8	American River Deliveries	3.5-41
3.5-9	American River Deliveries to CVP Customers	3.5-41
3.6-1	Folsom Cordova Unified School District Enrollment, 2003–2004	3.6-3
3.6-2	Student Yield Generation Rates for the Rancho Cordova School Facility Improvement District	3.6-4
3.7-1	Faults Active in Holocene Time in the Vicinity of the Project Site	3.7-3
3.7-2	Soil Mapping Unit Identified by Project Development Phase	3.7-6
3.7-3	Soil Mapping Unit Descriptions	3.7-9
3.7-4	California Division of Mines and Geology Mineral Land Classification System.....	3.7-14
3.9-1	Inventory of Historic Sites and Buildings at the Project Site	3.9-5
3.10-1	Special-Status Plant Species Known to Occur or with Potential to Occur on the Project Site	3.10-8
3.10-2	Special-Status Wildlife Species Known to Occur or with Potential to Occur on the Project Site	3.10-9
3.12-1	Existing Cordova Recreation & Park District Facilities and Services	3.12-5
3.12-2	CRPD Classification of Mini, Neighborhood, and Community Parks and their Standards	3.12-7
3.12-3	Project Parkland Acreage Calculations	3.12-9
3.12-4	Development Phase 1 Parkland Acreage Calculations.....	3.12-12
3.13-1	Summary of Primary Study Areas, Primary Constituents of Concern, and Regulatory and Investigation Status on the Rio del Oro Project Site	3.13-12
3.14-1	Locations of Detailed Traffic Analyses.....	3.14-4
3.14-2	Intersection Levels of Service—Existing Conditions	3.14-8
3.14-3	Roadway Levels of Service—Existing Conditions	3.14-14
3.14-4	Levels of Service for Freeway-Ramp Merge, Diverge, and Weave Maneuvers— Existing Conditions	3.14-15
3.14-5	Level-of-Service Definitions for Intersections	3.14-19
3.14-6	Daily Volume Thresholds for Roadway Segments	3.14-22
3.14-7	Definitions of Intersection Levels of Service	3.14-23

TABLE OF CONTENTS (continued)

Tables

3.14-8	Definitions of Freeway-Ramp Merge/Diverge Levels of Service.....	3.14-24
3.14-9	Rio del Oro Vehicle-Trip Generation Summary	3.14-30
3.14-10	Intersection Levels of Service—Baseline Conditions	3.14-43
3.14-11	Roadway Segment Levels of Service—Baseline Conditions	3.14-45
3.14-12	Merge/Diverge/Weave Levels of Service—Baseline Conditions	3.14-47
3.14-13	Intersection Levels of Service—Cumulative (2030) Conditions.....	3.14-87
3.14-14	Roadway Segment Levels of Service—Cumulative (2030) Conditions	3.14-91
3.14-15	Merge/Diverge/Weave Levels of Service—Cumulative Conditions	3.14-95
3.15-1	Ambient Air Quality Standards and Designations	3.15-3
3.15-2	Summary of Annual Ambient Air Quality Data (2003–2005)	3.15-8
3.15-3	Summary of Modeled Worst-Case Daily Short-Term Construction-Generated Emissions for Phase 1—Proposed Project Alternative	3.15-39
3.15-4	Summary of Modeled Worst-Case Daily Short-Term Construction-Generated Emissions for Phase 1—High Density Alternative	3.15-40
3.15-5	Summary of Modeled Worst-Case Year Short-Term Construction-Generated Emissions for Phase 1—Impact Minimization Alternative	3.15-41
3.15-6	Summary of Modeled Long-Term Operational Emissions for Phase 1— Proposed Project Alternative	3.15-43
3.15-7	Summary of Modeled Long-Term Operational Emissions for Phase 1— High Density Alternative.....	3.15-44
3.15-8	Summary of Modeled Long-Term Operational Emissions for Phase 1— Impact Minimization Alternative	3.15-45
3.15-9	Summary of Modeled CO Concentrations for Baseline and Baseline Plus Phase 1 Development Conditions (Year 2014)—Proposed Project Alternative	3.15-47
3.16-1	Daytime Ambient-Noise Levels	3.16-4
3.16-2	Summary of Modeled Existing Traffic Noise Levels.....	3.16-8
3.16-3	State of California Noise Compatibility Guidelines by Land Use Category.....	3.16-11
3.16-4	Performance Standards for Typical Stationary Noise Sources— Rancho Cordova General Plan Noise Element.....	3.16-12
3.16-5	Performance Standards for Stationary Noise Sources that Are Tonal, Impulsive, Repetitive, or Consist Primarily of Speech or Music— Rancho Cordova General Plan Noise Element.....	3.16-12
3.16-6	Maximum Allowable Noise Exposure, Transportation Noise Sources— Rancho Cordova General Plan Noise Element.....	3.16-12
3.16-7	City of Rancho Cordova Noise Control Ordinance Standards	3.16-14
3.16-8	Construction Equipment Noise Levels	3.16-16
3.16-9	Summary of Modeled Cumulative (Year 2030) Traffic Noise Levels	3.16-25
3.16-10	Summary of Measurements of Single-Event Aircraft Noise	3.16-33
3.16-11	Summary of Modeled Baseline (Year 2014) Traffic Noise Levels	3.16-36
4-1	Related Projects in the City of Rancho Cordova and Nearby Sacramento County	4-7
4-2	Summary of Project-Related Significant and Unavoidable Impacts	4-21