

DRAFT EIR

Chapter	Page Number
Executive Summary.....	ES-1
1.0 Introduction	1.0-1
1.1 Purpose and Intended Uses of the EIR	1.0-1
1.2 Type of EIR	1.0-2
1.3 CEQA Streamlining.....	1.0-2
1.4 Known Responsible and Trustee Agencies	1.0-8
1.5 Environmental Review Process.....	1.0-9
1.6 Organization and Scope.....	1.0-10
1.7 Significance Criteria	1.0-12
1.8 Comments Received on the Notice of Preparation	1.0-13
1.9 Areas of Controversy.....	1.0-14
2.0 Project Description	2.0-1
2.1 Project Location and Environmental Setting	2.0-1
2.2 Project Background.....	2.0-2
2.3 Project Goals, Objectives, and Entitlement Requests	2.0-2
2.4 Project Description	2.0-4
3.1 Aesthetics and Visual Resources.....	3.1-1
3.1.1 Environmental Setting	3.1-1
3.1.2 Regulatory Setting	3.1-3
3.1.3 Impacts and Mitigation Measures	3.1-6
3.2 Air Quality	3.2-1
3.2.1 Environmental Setting	3.2-1
3.2.2 Regulatory Setting	3.2-11
3.2.3 Impacts and Mitigation Measures	3.2-21
3.3 Biological Resources	3.3-1
3.3.1 Environmental Setting	3.3-1
3.3.2 Regulatory Setting	3.3-11
3.3.3 Impacts and Mitigation Measures	3.3-21

TABLE OF CONTENTS

3.4 Cultural and Tribal Resources	3.4-1
3.4.1 Environmental Setting	3.4-1
3.4.2 Regulatory Setting.....	3.4-10
3.4.3 Impacts and Mitigation Measures	3.4-13
3.5 Geology and Soils.....	3.5-1
3.5.1 Environmental Setting	3.5-1
3.5.2 Regulatory Setting.....	3.5-9
3.5.3 Impacts and Mitigation Measures	3.5-13
3.6 Greenhouse Gases, Climate Change, and Energy	3.6-1
3.6.1 Environmental Setting	3.6-1
3.6.2 Regulatory Setting.....	3.6-7
3.6.3 Impacts and Mitigation Measures	3.6-19
3.7 Hazards and Hazardous Materials	3.7-1
3.7.1 Environmental Setting	3.7-1
3.7.2 Regulatory Setting.....	3.7-10
3.7.3 Impacts and Mitigation Measures	3.7-16
3.8 Hydrology and Water Quality	3.8-1
3.8.1 Environmental Setting	3.8-1
3.8.2 Regulatory Setting.....	3.8-9
3.8.3 Impacts and Mitigation Measures	3.8-16
3.9 Land Use.....	3.9-1
3.9.1 Environmental Setting	3.9-1
3.9.2 Regulatory Setting.....	3.9-2
3.9.3 Impacts and Mitigation Measures	3.9-11
3.10 Noise and Vibration	3.10-1
3.10.1 Environmental Setting	3.10-1
3.10.2 Regulatory Setting.....	3.10-6
3.10.3 Impacts and Mitigation Measures	3.10-10

3.11 Population and Housing..... 3.11-1

 3.11.1 Environmental Setting 3.11-1

 3.11.2 Regulatory Setting 3.11-2

 3.11.3 Impacts and Mitigation Measures 3.11-5

3.12 Public Services and Recreation 3.12-1

 3.12.1 Environmental Setting 3.12-1

 3.12.2 Regulatory Setting 3.12-9

 3.12.3 Impacts and Mitigation Measures 3.12-12

3.13 Transportation and Circulation..... 3.13-1

 3.13.1 Environmental Setting 3.13-3

 3.13.2 Regulatory Setting 3.13-9

 3.13.3 Impacts and Mitigation Measures 3.13-13

3.14 Utilities..... 3.14-1

 3.14.1 Wastewater Services 3.14-1

 3.14.2 Water Supplies..... 3.14-8

 3.14.3 Solid Waste 3.14-20

4.0 Other CEQA-Required Topics..... 4.0-1

 4.1 Cumulative Setting and Impact Analysis..... 4.0-1

 4.2 Growth-Inducing Effects 4.0-11

 4.3 Significant Irreversible Effects 4.0-12

 4.4 Significant and Unavoidable Impacts..... 4.0-13

5.0 Alternatives to the Proposed Project 5.0-1

 5.1 CEQA Requirements..... 5.0-1

 5.2 Alternatives Considered in this EIR..... 5.0-4

 5.3 Environmental Analysis..... 5.0-7

 5.4 Comparative Evaluation of the Project and Alternatives to Satisfy
 Project Objectives 5.0-21

6.0 Report Preparers..... 6.0-1

7.0 References 7.0-1

TABLE OF CONTENTS

Table	Page Number
Table ES-1: Comparison of Proposed Project Characteristics to the Alternatives.....	ES-3
Table ES-2: Comparison of Alternative Project Impacts to the Proposed Project.....	ES-4
Table ES-3: Project Impacts and Proposed Mitigation Measures.....	ES-5
Table 2.0-1: Land Use Summary	2.0-5
Table 2.0-2: General Plan Land Use Designations	2.0-11
Table 3.2-1: Federal and State Ambient Air Quality Standards	3.2-9
Table 3.2-2: State and National Attainment Status (Sacramento County).....	3.2-10
Table 3.2-3: Sacramento County Ambient Air Quality Monitoring Data Summary – Ozone... 3.2-11	3.2-11
Table 3.2-4: Sacramento County Ambient Air Quality Monitoring Data Summary – PM _{2.5} 3.2-11	3.2-11
Table 3.2-5: SVAB Ambient Air Quality Monitoring Data Summary – PM ₁₀	3.2-11
Table 3.2-6: Thresholds of Significance for Criteria Pollutants of Concern	3.2-22
Table 3.2-7: Project Operational Emissions (Unmitigated Scenario) (Tons/Year) – Annual	3.2-31
Table 3.2-8: Project Operational Emissions (Unmitigated Scenario) (Pounds/Day) – Summer	3.2-31
Table 3.2-9: Project Operational Emissions (Unmitigated Scenario) (Pounds/Day) – Winter.....	3.2-32
Table 3.2-10: Summary of Maximum Construction Daily and Annual Emissions.....	3.2-35
Table 3.2-11: CARB Minimum Separation Recommendations on Siting Sensitive Land Uses. 3.2-41	3.2-41
Table 3.3-1: Special-Status Plants within 9-Quadrangle Region for Project Site.....	3.3-5
Table 3.3-2: Special-Status Animals within 9-Quadrangle Region for Project Site.....	3.3-8
Table 3.3-3: SSHCP EIS/EIR Impacts of SSHCP Proposed Action/Proposed Project.....	3.3-26
Table 3.3-4: Aquatic Resources Within the Project Site	3.3-67
Table 3.3-5: Impacts to Biological Communities.....	3.3-68
Table 3.5-1: Project Site Soils.....	3.5-2
Table 3.5-2: Fault Activity Rating	3.5-5
Table 3.5-3: Modified Mercalli Intensity Scale for Earthquakes.....	3.5-6
Table 3.6-1: Recommended Land Use Operational Thresholds of Significance (Metric Tons)	3.6-21
Table 3.6-2: Summary of Construction-Related Greenhouse Gas Emissions (Metric Tons/Year)	3.6-23
Table 3.6-3: Summary of Construction-Related Greenhouse Gas Emissions (Metric Tons/Year) in Years with Concurrent Phases	3.6-24
Table 3.6-4: Unmitigated Operational GHG Emissions at Project Buildout	

TABLE OF CONTENTS

(Metric Tons/Year)	3.6-27
Table 3.6-5: Unmitigated Operational GHG Emissions at Project Buildout	
(Metric Tons/Year)	3.6-28
Table 3.6-6: Unmitigated Operational GHG Emissions at Project Buildout	
(Metric Tons/Year)	3.6-28
Table 3.6-7: Unmitigated Operational GHG Emissions at Project Buildout	
(Metric Tons/Year)	3.6-29
Table 3.6-8: Project Operational Natural Gas and Electricity Usage	
(Unmitigated Scenario)	3.6-38
Table 3.6-9: On-Road Mobile Fuel Generated by Project Construction Activities –	
by Phase	3.6-39
Table 3.7-1: GeoTracker Known Hazardous Material Release Sites within 1 Mile	3.7-5
Table 3.8-1: State of California Watershed Hierarchy Naming Convention	3.8-2
Table 3.8-2: Summary of Existing Conditions Subsheds	3.8-4
Table 3.8-3: Soil Hydrologic Rating	3.8-21
Table 3.8-4: Pre-Project and Post-Project Peak Flow Conditions (2-, 10-, and 100-Year Storm	
Events).....	3.8-24
Table 3.10-1: Typical Noise Levels	3.10-3
Table 3.10-2: Summary of Existing Background Noise Measurement Data	3.10-4
Table 3.10-3: Existing Traffic Noise Levels	3.10-6
Table 3.10-4: Significance of Changes in Noise Exposure.....	3.10-11
Table 3.10-5: Effects of Vibration on People and Buildings.....	3.10-12
Table 3.10-6: Existing and Existing Plus Project Traffic Noise Levels.....	3.10-13
Table 3.10-7: Cumulative and Cumulative + Project Traffic Noise Levels	3.10-14
Table 3.10-8: Cumulative + Project Transportation Noise Levels at Proposed	
Residential Uses	3.10-16
Table 3.10-9: Construction Equipment Noise.....	3.10-19
Table 3.10-10: Vibration Levels for Varying Construction Equipment	3.10-21
Table 3.11-1: Population Growth – Rancho Cordova	3.11-1
Table 3.11-2: Housing Unit Growth – Rancho Cordova.....	3.11-2
Table 3.12-1: Elk Grove Unified School District: School Inventory and 2016/2017	
Enrollment	3.12-5
Table 3.12-2: Existing Cordova Recreation & Park District Facilities	3.12-6
Table 3.12-3: Elk Grove Unified School District Student Generation	
(Non-Age-Restricted Units)	3.12-15

TABLE OF CONTENTS

Table 3.13-1: Intersection LOS Criteria	3.13-2
Table 3.13-2: Roadway Segment LOS Criteria	3.13-2
Table 3.13-3: Existing (2017) Intersection LOS	3.13-8
Table 3.13-4: Existing (2017) Roadway Segment LOS.....	3.13-9
Table 3.13-5: Proposed Project Trip Generation	3.13-15
Table 3.13-6: Existing (2017) Plus Project Intersection LOS	3.13-17
Table 3.13-7: Intersection LOS – Existing (2017) Plus Project Mitigated Condition	3.13-19
Table 3.13-8: Existing (2017) Plus Project Roadway Segment LOS.....	3.13-21
Table 3.13-9: Cumulative (2040) Baseline and Plus Project Intersection LOS.....	3.13-24
Table 3.13-10: Intersection LOS – Cumulative (2040) Plus Project Mitigated Condition	3.13-26
Table 3.13-11: Cumulative (2040) Plus Project Roadway Segment LOS.....	3.13-30
Table 3.14-1: Historical Groundwater Pumping 2011-2015	3.14-11
Table 3.14-2: Multiple Dry Years Supply and Demand Comparison in Five-Year Increments (AFY)	3.14-12
Table 3.14-3: Proposed Land Use and Water Demands Estimate for the Project.....	3.14-17
Table 5.0-1: Comparison of Project Characteristics to the Alternatives.....	5.0-6
Table 5.0-2: Comparison of Project Trips to the Alternatives	5.0-6
Table 5.0-3: Comparison of Alternative Project Impacts to the Proposed Project	5.0-21

Figures

Note: Figures are located at the end of the chapters.

Figure 2.0-1	Regional Location Map
Figure 2.0-2	Project Vicinity Map
Figure 2.0-3	Aerial View of Project Site
Figure 2.0-4	Tentative Subdivision Map
Figure 2.0-5	Existing and Proposed Zoning
Figure 2.0-6	Existing and Proposed General Plan
Figure 3.3-1	Cover Types
Figure 3.3-2	California Natural Diversity Database 9-Quad Search
Figure 3.3-3	Biological Communities and Aquatic Resources
Figure 3.3-4	Impacts to Biological Communities and Aquatic Resources
Figure 3.5-1	Project Site Soils
Figure 3.5-2	Known Faults in the Project Area
Figure 3.5-3	Shrink-Swell Potential of Soils

Figure 3.8-1	Watersheds
Figure 3.10-1	Noise Measurement Sites
Figure 3.10-2	General Plan Table N-1: City Noise Standards – Noise Level Performance Standards for New Projects Affected by or Including Non-Transportation Noise Sources
Figure 3.10-3	General Plan Table N-2: Maximum Transportation Noise Exposure
Figure 3.13-1	Existing (2017) Project Vicinity Map
Figure 3.13-2	Existing (2017) Study Intersections, Traffic Control, and Lane Geometries
Figure 3.13-3	Existing (2017) Peak Hour Traffic Volumes
Figure 3.13-4	Existing (2017) Project Trip Distribution
Figure 3.13-5	Existing (2017) Project Trip Assignment
Figure 3.13-6	Existing (2017) Plus Proposed Project Peak Hour Traffic Volumes
Figure 3.13-7	Cumulative (2040) Study Intersections, Interchanges, and Count Locations
Figure 3.13-8a	Cumulative (2040) Study Intersections, Traffic Control, and Lane Geometries
Figure 3.13-8b	Cumulative (2040) Study Intersections, Traffic Control, and Lane Geometries (Continued)
Figure 3.13-9a	Cumulative (2040) Peak Hour Traffic Volumes
Figure 3.13-9b	Cumulative (2040) Peak Hour Traffic Volumes (Continued)
Figure 3.13-10	Cumulative (2040) Project Trip Distribution
Figure 3.13-11a	Cumulative (2040) Project Trip Assignment
Figure 3.13-11b	Cumulative (2040) Project Trip Assignment (Continued)
Figure 3.13-12a	Cumulative (2040) Plus Project Traffic Volumes
Figure 3.13-12b	Cumulative (2040) Plus Project Traffic Volumes (Continued)

TABLE OF CONTENTS

Appendices

- Appendix A: Initial Study, Notice of Preparation, and NOP Comments
- Appendix B: Air Quality, Greenhouse Gas, and Energy Appendices
 - Appendix B.1: CalEEMod Outputs
 - Appendix B.2: Energy Outputs
 - Appendix B.3: Determination of MTP/SCS Consistency Worksheet
 - Appendix B.4: Analysis of Models and Tools to Correlate Project-Generated Criteria Pollutant Emissions to Health End Points
- Appendix C: Biological Resources Appendices
 - Appendix C.1: Aquatic Resources Delineation Report
 - Appendix C.2: Biological Resources Assessment
 - Appendix C.3: Special-Status Plant Survey
- Appendix D: Cultural Resources Appendices
 - Appendix D.1: Determination of Eligibility and Effect
 - Appendix D.2: The Ranch Updated Cultural Resources Inventory and Evaluation, Rancho Cordova, Sacramento County, California
- Appendix E: Preliminary Geotechnical Engineering Report
- Appendix F: Phase I Environmental Site Assessment
- Appendix G: The Ranch Project Consistency with Rancho Cordova General Plan Policies
- Appendix H: Environmental Noise Assessment
- Appendix I: Transportation Appendices
 - Appendix I.1: Traffic Impact Analysis
 - Appendix I.2: Memorandum RE: Jaeger Ranch Traffic Impact Study, Draft Other Considerations
 - Appendix I.3: Memorandum RE: Jaeger Ranch Supplemental Traffic Analyses, Draft Traffic Impact Analysis Services
 - Appendix I.4: Memorandum RE: Jaeger Ranch Supplemental Traffic Analyses, Draft Trip Distribution
- Appendix J: Utilities Appendices
 - Appendix J.1: Drainage Study
 - Appendix J.2: Level 1 Sewer Study
 - Appendix J.3: Level 2 Sewer Study
 - Appendix J.4: Water Supply Assessment