

CITY OF ROCKLIN GENERAL PLAN UPDATE

VOLUME 1 - DRAFT ENVIRONMENTAL IMPACT REPORT

SCH No. 2008072115

Prepared for:

CITY OF ROCKLIN
PLANNING DIVISION
3970 ROCKLIN ROAD
ROCKLIN, CA 95677

Prepared by:



2729 PROSPECT PARK DRIVE, SUITE 220
RANCHO CORDOVA, CA 95670

AUGUST 2011

**CITY OF ROCKLIN
GENERAL PLAN UPDATE
VOLUME 1 - DRAFT ENVIRONMENTAL IMPACT REPORT**

SCH No. 2008072115

Prepared for:

CITY OF ROCKLIN
PLANNING DIVISION
3970 ROCKLIN ROAD
ROCKLIN, CA 95677

Prepared by:

PMC
2729 PROSPECT PARK DRIVE, SUITE 220
RANCHO CORDOVA, CA 95670

AUGUST 2011

TABLE OF CONTENTS

* - Volumes 1 and 2 are available on CD in the back of Volume 1.

1.0 INTRODUCTION

1.1	Purpose of the EIR.....	1.0-1
1.2	Known Trustee and Responsible Agencies	1.0-1
1.3	Type of Document	1.0-2
1.4	Intended Use of the EIR	1.0-3
1.5	Organization and Scope	1.0-3
1.6	Environmental Review Process.....	1.0-5
1.7	Comments Received on the Notice of Preparation	1.0-6

2.0 EXECUTIVE SUMMARY

2.1	Purpose and Scope of the Environmental Impact Report.....	2.0-1
2.2	Project Characteristics	2.0-1
2.3	Project Alternatives Summary	2.0-3
2.4	Areas of Controversy	2.0-4
2.5	Summary of Environmental Impacts	2.0-4

3.0 PROJECT DESCRIPTION

3.1	Local and Regional Setting	3.0-1
3.2	Project Background	3.0-2
3.3	Proposed City of Rocklin General Plan Update	3.0-15
3.4	Sixth Amendment to the Redevelopment Plan	3.0-32
3.6	Subsequent Activities and Development in the City	3.0-34
3.7	Application of the Climate Action Plan to Future CEQA Reviews and Specific Projects.....	3.0-35
3.8	Regulatory Requirements, Permits, and Approvals	3.0-36

4.0 INTRODUCTION TO THE ENVIRONMENTAL ANALYSIS AND ASSUMPTIONS USED

4.0	Introduction to the Environmental Analysis and Assumptions Used.....	4.0-1
4.1	Land Use	4.1-1
4.2	Air Quality	4.2-1
4.3	Aesthetics/Light and Glare.....	4.3-1
4.4	Transportation and Circulation	4.4-1
4.5	Noise.....	4.5-1
4.6	Geology and Soils	4.6-1
4.7	Human Health/Hazards.....	4.7-1
4.8	Cultural and Paleontological Resources.....	4.8-1
4.9	Hydrology and Water Quality	4.9-1
4.10	Biological Resources	4.10-1
4.11	Population and Housing.....	4.11-1
4.12	Public Services	4.12-1
4.13	Utilities and Service Systems.....	4.13-1
4.14	Water Resources.....	4.14-1
4.15	Climate Change and Greenhouse Gases	4.15-1

TABLE OF CONTENTS

5.0 CUMULATIVE IMPACTS

5.1	Introduction.....	5.0-1
5.2	Cumulative Impacts Analysis	5.0-3

6.0 ALTERNATIVES

6.1	Introduction.....	6.0-1
6.2	Factors Considered in Identifying Project Alternatives	6.0-1
6.3	Alternatives Under Consideration.....	6.0-3
6.4	Alternative 1 – Existing General Plan Alternative (No Project Alternative)	6.0-3
6.5	Alternative 2 – Elimination of Mixed Use Designation Alternative	6.0-8
6.6	Alternative 3 – Rocklin Road and Argonaut Avenue Extensions Alternative	6.0-13
6.8	Alternative 5 – Argonaut Avenue Extension Alternative.....	6.0-35
6.9	Environmentally Superior Alternative	6.0-46

7.0 LONG-TERM IMPLICATIONS

7.1	Growth-Inducing Impacts.....	7.0-1
7.2	Significant Irreversible Environmental Effects.....	7.0-3
7.3	Significant and Unavoidable Environmental Effects	7.0-3

8.0 REPORT PREPARERS

APPENDICES

* - Technical Appendices can be found in a separate volume 2.

- Appendix A – NOP
- Appendix B - Air Quality
- Appendix C - Traffic Analysis
- Appendix D - Ambient Noise Study Data
- Appendix E - Special Status Species Database Query Results

TABLES

Table 3.0-1	City of Rocklin – Residential Growth Projection Scenarios	3.0-31
Table 3.0-2	City of Rocklin – Non-Residential Growth Projection Scenarios.....	3.0-32
Table 4.0-1	Development Assumptions in Cities and Town and Unincorporated Western Placer County	4.0-7
Table 4.1-1	Existing Land Use Designations by Acreage City of Rocklin.....	4.1-2
Table 4.2-1	Federal and State Ambient Air Quality Standards	4.2-2
Table 4.2-2	Ambient Air Quality Monitoring Data for Auburn (C Avenue), Roseville (North Sunrise Boulevard), and North Highlands (Blackfoot Way)	4.2-3
Table 4.2-3	Facilities that Emit Air Pollutants of Concern1.....	4.2-7
Table 4.2-5	Construction Emissions (Typical 1-Acre Project)	4.2-26
Table 4.2-6	Estimated Unmitigated Air Quality Emissions, Existing Conditions.....	4.2-29
Table 4.2-7	Estimated 2030 Unmitigated General Plan Air Quality Emissions.....	4.2-29
Table 4.2-8	Estimated 2030 Localized Mobile-Source Carbon Monoxide Concentrations.....	4.2-33
Table 4.4-1	Intersection LOS Descriptions	4.4-4

TABLE OF CONTENTS

Table 4.4-2	PM Peak Hour LOS – City of Rocklin Signalized Intersections Existing Conditions	4.4-7
Table 4.4-3	Daily Highway Volumes – State/Interstate Highway Facilities Existing Conditions	4.4-15
Table 4.4-4	PM Peak Hour LOS – State Highway Ramp Intersections Existing Conditions ..	4.4-16
Table 4.4-5	PM Peak Hour LOS – Town of Loomis Intersections Existing Conditions.....	4.4-16
Table 4.4-6	PM Peak Hour LOS – Roseville Intersections Existing Conditions.....	4.4-17
Table 4.4-7	PM Peak Hour LOS – Lincoln Intersections Existing Conditions	4.4-18
Table 4.4-8	PM Peak Hour LOS – Placer County Intersections Existing Conditions	4.4-18
Table 4.4-9	Circular 212 Critical Volume Capacities	4.4-38
Table 4.4-10	City of Rocklin Land Use Assumptions	4.4-39
Table 4.4-11	PM Peak Hour LOS – City of Rocklin Signalized Intersections Existing Conditions with Buildout of Proposed General Plan.....	4.4-40
Table 4.4-12	Daily Freeway Volumes – State/Interstate Highway Facilities Existing Conditions with Buildout of Proposed General Plan.....	4.4-47
Table 4.4-13	PM Peak Hour LOS – State Highway Ramp Intersections Existing Conditions with Buildout of Proposed General Plan	4.4-48
Table 4.4-14 PM	Peak Hour LOS – Town of Loomis Intersections Existing Conditions with Buildout of Proposed General Plan	4.4-51
Table 4.4-15 PM	Peak Hour LOS – Roseville Intersections Existing Conditions with Buildout of Proposed General Plan	4.4-51
Table 4.4-16 PM	Peak Hour LOS – Lincoln Intersections Existing Conditions with Buildout of Proposed General Plan	4.4-52
Table 4.4-17 PM	Peak Hour LOS – Placer County Intersections Existing Conditions with Buildout of Proposed General Plan	4.4-52
Table 4.4-18	Western Placer County Cumulative Development Assumptions: Residential Dwelling Units	4.4-53
Table 4.4-19	Western Placer County Cumulative Development Assumptions: Retail KSF (1,000 Square Feet)	4.4-54
Table 4.4-20	Western Placer County Cumulative Development Assumptions: Office KSF (1,000 Square Feet)	4.4-55
Table 4.4-21	Western Placer County Cumulative Development Assumptions: Industrial KSF (1,000 Square Feet)	4.4-56
Table 4.4-22	City of Rocklin Arterial Roadways.....	4.4-57
Table 4.4-23	City of Rocklin Collector Roadways.....	4.4-59
Table 4.4-24	City of Rocklin Development Assumptions Buildout of Current and Proposed General Plans.....	4.4-63
Table 4.4-25	Trip Generation of Proposed Project.....	4.4-64
Table 4.4-26	Vehicle Miles Traveled (VMT) with Origin or Destination (or both) in City of Rocklin.....	4.4-64
Table 4.4-27 PM	Peak Hour LOS – City of Rocklin Signalized Intersections Cumulative Conditions with Buildout of Proposed General Plan.....	4.4-67
Table 4.4-28	Intersections Operating at LOS D, E, or F Cumulative Conditions with Buildout of Proposed General Plan	4.4-73
Table 4.4-29	Daily Highway Volumes – State/Interstate Highway Facilities Cumulative Conditions with Buildout of Proposed General Plan.....	4.4-83
Table 4.4-30 PM	Peak Hour LOS – State Highway Ramp Intersections Cumulative Conditions with Buildout of Proposed General Plan	4.4-86
Table 4.4-32 PM	Peak Hour LOS – Roseville Intersections Cumulative Conditions with Buildout of Proposed General Plan	4.4-90

TABLE OF CONTENTS

Table 4.4-33 PM	Peak Hour LOS – Lincoln Intersections Cumulative Conditions with Buildout of Proposed General Plan	4.4-92
Table 4.4-34 PM	Peak Hour LOS – Placer County Intersections Cumulative Conditions with Buildout of Proposed General Plan	4.4-93
Table 4.5-1	Common Acoustical Descriptors.....	4.5-2
Table 4.5-2	Ambient Noise Measurement Surveys	4.5-9
Table 4.5-3	Predicted Railroad Noise Levels	4.5-15
Table 4.5-4	Existing Traffic Noise Levels in the Planning Area	4.5-20
Rocklin General Plan Update Table 2-1	Exterior Noise Level Design Standards for New Projects Affected by or Including Stationary Noise Sources	4.5-28
Rocklin General Plan Update Table 2-2	Maximum Allowable Noise Exposure Transportation Noise Sources.....	4.5-29
Table 4.5-5	Typical Construction Equipment Noise	4.5-32
Table 4.5-6	Traffic Noise Levels Cumulative Conditions Plus Buildout of the General Plan Update.....	4.5-35
Table 4.5-7	Year 2030 Traffic Noise Projections	4.5-37
Table 4.5-8	Change in Noise Levels on Nearby Roadways within Adjacent Jurisdictions with Project Implementation	4.5-46
Table 4.6-1	Soil Mapping Units	4.6-4
Table 4.6-2	Magnitude and Intensity Comparison.....	4.6-6
Table 4.7-1	Known Hazardous Material Release Sites in the Vicinity of the Planning Area	4.7-2
Table 4.7-2	Summary of Federal Hazardous Materials Regulatory Authority	4.7-13
Table 4.7-3	Summary of State Hazardous Materials Regulatory Authority	4.7-14
Table 4.7-4	Other Applicable Hazardous Material Regulations.....	4.7-16
Table 4.10-1	Acreage of Habitat Types within the Planning Area	4.10-2
Table 4.10-2	Special-Status Plant Species Potentially Occurring Within the Planning Area.....	4.10-10
Table 4.10-3	Special-Status Wildlife Species Potentially Occurring Within the Planning Area.....	4.10-13
Table 4.11-1	City of Rocklin Population.....	4.11-1
Table 4.11-2	City of Rocklin Households.....	4.11-2
Table 4.11-3	Rocklin Household Tenure.....	4.11-3
Table 4.11-4	Employment by Industry – Rocklin	4.11-4
Table 4.11-5	General Plan 2030 Projected Growth	4.11-9
Table 4.12.1-1	Rocklin Fire Department Responses 2000–2007	4.12-1
Table 4.12.3-1	Rocklin Unified School District Enrollment	4.12-18
Table 4.12.3-2	Rocklin Unified School District Enrollment vs. Capacity	4.12-19
Table 4.12.3-3	Rocklin Unified School District Enrollment Projections – Moderate and Fast Growth	4.12-26
Table 4.12.4-1	City of Rocklin Community and Neighborhood Parks (as of April 2008) ...	4.12-35
Table 4.13.1-1	SPWA Wastewater Treatment Plant Flow and Capacity	4.13-5
Table 4.13.1-2	SS and BOD Concentrations SPWA Wastewater Treatment Plants.....	4.13-5
Table 4.13.1-3	Pipeline Transmission Capacity at General Plan Update Buildout.....	4.13-13
Table 4.13.2-1	City of Rocklin Diversion Rates	4.13-17
Table 4.13.2-2	Solid Waste Generation General Plan Update Buildout.....	4.13-20
Table 4.13.3-1	Electricity and Natural Gas Consumption for PGE's Rocklin Service Area	4.13-23
Table 4.14-1	Normal Year Water Supply Allocation for Zone 1 for 2006 and at Full Capacity of Foothill/Sunset/Ophir WTP.....	4.14-5
Table 4.14-2	PCWA's Assumed Dry Year Surface Water Supplies.....	4.14-6
Table 4.14-3	2004 Treated Water Demand and Number of Connections by Customer Category in AF/Y	4.14-6

TABLE OF CONTENTS

Table 4.14-4	West Placer County Supply to Demand Comparison Buildout of Scenario 2b	4.14-7
Table 4.14-5	CUWCC Revised Best Management Practices.....	4.14-13
Table 4.14-6	Water Forum Best Management Practices for PCWA.....	4.14-14
Table 4.14-7	Projected Water Demand Buildout of Rocklin GPU.....	4.14-16
Table 4.15-1	Global Warming Potential for Greenhouse Gases	4.15-3
Table 4.15-2	Proposed General Plan Update Greenhouse Gas Emissions in Carbon Dioxide Equivalent (CO ₂ e) (Business As Usual)	4.15-16
Table 4.15-3	Greenhouse Gas Emissions Reductions per Service Population Under Climate Action Plan in 2020 and 2030	4.15-18
Table 5.0-7	Intersections with Significant LOS Changes – City of Rocklin Signalized Intersections Cumulative and Super-Cumulative Conditions with Buildout of Proposed General Plan.....	5.0-25
Table 6.0-3 P.M.	Peak Hour Level of Service – City of Rocklin Signalized Intersections Cumulative Plus Project Circulation – Alternative 3.....	6.0-17
Table 6.0-4	Intersections Operating at LOS D or Worse – City of Rocklin Signalized Intersections Cumulative Plus Project Circulation – Alternative 3	6.0-20
Table 6.0-5	Intersections With Significant LOS Changes – City of Rocklin Signalized Intersections/ Cumulative Plus Project Circulation – Alternative 3.....	6.0-21
Table 6.0-6 P.M.	Peak Hour Level of Service – State Highway Ramp Intersections Cumulative Plus Project Circulation – Alternative 3	6.0-21
Table 6.0-7 P.M.	Peak Hour Level of Service – Town of Loomis Intersections Cumulative Plus Project – Alternative 3	6.0-22
Table 6.0-14	Intersections Operating at LOS D or Worse – City of Rocklin Signalized Intersections Cumulative Plus Project Circulation – Alternative 4	6.0-32
Table 6.0-16 P.M.	Peak Hour Level of Service – State Highway Ramp Intersections Cumulative Plus Project Circulation – Alternative 4	6.0-34
Table 6.0-17 P.M.	Peak Hour Level of Service – Town of Loomis Intersections Cumulative Plus Project Circulation – Alternative 4	6.0-35
Table 6.0-18 P.M.	Peak Hour Level of Service – City of Rocklin Signalized Intersections Cumulative Plus Project Circulation – Alternative 5.....	6.0-39
Table 6.0-19	Intersections Operating at LOS D or Worse – City of Rocklin Signalized Intersections Cumulative Plus Project Circulation – Alternative 5	6.0-43
Table 6.0-20	Intersections With Significant LOS Changes – City of Rocklin Signalized Intersections Cumulative Plus Project Circulation – Alternative 5	6.0-44
Table 6.0-21 P.M.	Peak Hour Level of Service – State Highway Ramp Intersections Cumulative Plus Project Circulation – Alternative 5	6.0-45
Table 6.0-22 P.M.	Peak Hour Level of Service – Town of Loomis Intersections Cumulative Plus Project Circulation – Alternative 5	6.0-46
Table 6.0-23	Summary Comparison of Alternatives	6.0-50

FIGURES

Figure 3.0-1	Regional Location Map	3.0-5
Figure 3.0-2	City of Rocklin and Surrounding Area.....	3.0-7
Figure 3.0-3	Redevelopment Project Area	3.0-9
Figure 3.0-4	Aerial of Planning Area	3.0-11
Figure 3.0-5	Planning Area	3.0-13
Figure 3.0-6	Land Use Diagram.....	3.0-17
Figure 3.0-7	Planning Area Circulation System	3.0-25
Figure 3.0-8	Bikeway Diagram	3.0-27
Figure 3.0-9	Neighborhood Areas.....	3.0-29

TABLE OF CONTENTS

Figure 4.1-1	City of Lincoln General Plan Land Use Diagram	4.1-7
Figure 4.1-2	Roseville General Plan Land Use Map	4.1-9
Figure 4.1-3	Town of Loomis Land Use Plan	4.1-11
Figure 4.1-4	Placer County Land Use Map	4.1-15
Figure 4.1-5	Civic Center Land Use Plan.....	4.1-19
Figure 4.3-1	Changes in Canopy 1952–2003	4.3-2
Figure 4.3-2	Rocklin Park Trees	4.3-4
Figure 4.3-3	Secret Ravine.....	4.3-6
Figure 4.4-1	Project Study Area and Study Intersections.....	4.4-5
Figure 4.4-2	Existing Level of Service at Signalized Rocklin Intersections	4.4-11
Figure 4.4-3	Existing Daily Traffic Volumes on Rocklin Roadways.....	4.4-13
Figure 4.4-4	Existing Daily Traffic Volumes on Non Rocklin Roadways	4.4-21
Figure 4.4-5	Existing Transit Routes.....	4.4-23
Figure 4.4-6	Existing Rail Facilities.....	4.4-29
Figure 4.4-7	City of Rocklin Existing and Proposed Bicycle Facilities	4.4-31
Figure 4.4-8	Existing Truck Routes.....	4.4-33
Figure 4.4-9	Existing Plus Project Level of Service at Signalized Rocklin Intersection	4.4-43
Figure 4.4-10	Existing Plus Project Daily Traffic Volumes on Rocklin Roadways.....	4.4-45
Figure 4.4-11	Existing Plus Project Daily Traffic Volumes on Non Rocklin Roadways	4.4-49
Figure 4.4-12	Cumulative Roadway Improvements City of Rocklin	4.4-61
Figure 4.4-13	Proposed General Plan Changes in Land Use and Roadway Network.....	4.4-65
Figure 4.4-14	Cumulative Level of Service at Signalized Rocklin Intersections	4.4-71
Figure 4.4-15	Cumulative Daily Traffic Volumes on Rocklin Roadways.....	4.4-79
Figure 4.4-16	Cumulative Daily Traffic Volumes on Non Rocklin Roadways	4.4-81
Figure 4.5-1	Typical Community Noise Levels.....	4.5-3
Figure 4.5-2	Ambient Noise Monitoring Locations	4.5-7
Figure 4.5-3	Existing Conditions.....	4.5-17
Figure 4.5-4	Future Noise Contours	4.5-23
Figure 4.6-2	Faults Map	4.6-11
Figure 4.7-1	Location of Pipelines and Electrical Transmission Lines.....	4.7-5
Figure 4.7-2	Wildland Fire Risk Map	4.7-11
Figure 4.9-1	Placer County Watersheds.....	4.9-3
Figure 4.9-2	Central Valley Regional Water Quality Control Board Boundaries.....	4.9-9
Figure 4.9-3	Floodplain Map	4.9-11
Figure 4.10-1	Habitat Types	4.10-3
Figure 4.10-2	Recorded Occurrences of Special-Status Species Within a 1-Mile Radius of the Project Study Area	4.10-11
Figure 4.12-2	Park and Recreation Facilities in the Planning Area.....	4.12-33
Figure 4.12-1	RFD Fire Station Locations	4.12-3
Figure 4.13-1	City of Rocklin Existing Sewage Collection Infrastructure	4.13-3
Figure 4.13-2	Electricity and Natural Gas Transmission Lines.....	4.13-25
Figure 5.0-1	Super-Cumulative Daily Traffic Volumes on Rocklin Roadways	5.0-17
Figure 5.0-2	Super-Cumulative Daily Traffic Volumes on non Rocklin Roadways	5.0-19
Figure 6.0-1	Existing General Plan Alternative (No Project Alternative)	6.0-5