

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
ACRONYMS AND ABBREVIATIONS	ACR-1
SUMMARY.....	S-1
S.1 <u>Summary</u>	S-1
S.2 <u>Summary of Significant Effects and Mitigation Measures that Reduce or Avoid the Significant Impacts</u>	S-3
S.3 <u>Areas of Controversy</u>	S-4
S.4 <u>Issues to be Resolved by the Decision-Making Body</u>	S-4
S.5 <u>Project Alternatives</u>	S-5
1 PROJECT DESCRIPTION, LOCATION, AND ENVIRONMENTAL SETTING	1-1
1.1 <u>Project Objectives</u>	1-1
1.2 <u>Project Description</u>	1-2
1.2.1 <u>Project’s Component Parts</u>	1-2
1.2.2 <u>Technical, Economic, and Environmental Characteristics</u> ..	1-18
1.3 <u>Project Location</u>	1-23
1.4 <u>Environmental Setting</u>	1-23
1.4.1 <u>Regional Context</u>	1-24
1.4.2 <u>On-Site Environment</u>	1-25
1.5 <u>Intended Uses of the EIR</u>	1-25
1.5.1 <u>Matrix of Project Approvals/Permits</u>	1-26
1.5.2 <u>Related Environmental Review and Consultation Requirements</u>	1-26
1.6 <u>Project Inconsistencies with Applicable Regional and General Plans</u>	1-26
1.7 <u>List of Past, Present, and Reasonably Anticipated Future Projects in the Project Area</u>	1-27
1.8 <u>Growth-Inducing Impacts</u>	1-27
1.8.1 <u>Extension of Utility Lines, Construction of Roads, or Construction/ Expansion of Water Facilities</u>	1-28
1.8.2 <u>Economic Stimulus (Construction of Golf Courses, Shopping Centers, Industrial Facilities, Residential Specific Plans)</u>	1-31
1.8.3 <u>General Plan Amendment/Rezone/Annexation(s)</u>	1-31
1.9 <u>Energy Consumption</u>	1-31

2 SIGNIFICANT ENVIRONMENTAL EFFECTS OF THE PROPOSED PROJECT 2.1-1

2.1 Aesthetics..... 2.1-1

 2.1.1 Existing Conditions 2.1-2

 2.1.2 Regulatory Setting 2.1-11

 2.1.3 Analysis of Project Effects and Determination as to Significance..... 2.1-17

 2.1.4 Cumulative Impacts 2.1-40

 2.1.5 Significance of Impacts Prior to Mitigation..... 2.1-45

 2.1.6 Mitigation 2.1-46

 2.1.7 Conclusion..... 2.1-48

2.2 Air Quality..... 2.2-1

 2.2.1 Existing Conditions 2.2-1

 2.2.2 Regulatory Setting 2.2-7

 2.2.3 Analysis of Project Effects and Determination as to Significance..... 2.2-13

 2.2.4 Cumulative Impact Analysis..... 2.2-25

 2.2.5 Significance of Impacts Prior to Mitigation..... 2.2-29

 2.2.6 Mitigation 2.2-30

 2.2.7 Conclusion..... 2.2-31

2.3 Biological Resources 2.3-1

 2.3.1 Existing Conditions 2.3-2

 2.3.2 Analysis of Project Effects and Determination as to Significance..... 2.3-31

 2.3.3 Significance of Impacts Prior to Mitigation..... 2.3-67

 2.3.4 Mitigation 2.3-70

 2.3.5 Conclusion..... 2.3-92

2.4 Cultural Resources 2.4-1

 2.4.1 Existing Conditions 2.4-1

 2.4.2 Regulatory Setting 2.4-8

 2.4.3 Analysis of Project Effects and Determination as to Significance..... 2.4-11

 2.4.4 Cumulative Impact Analysis..... 2.4-16

 2.4.5 Significance of Impacts Prior to Mitigation..... 2.4-19

 2.4.6 Mitigation 2.4-19

 2.4.7 Conclusion..... 2.4-36

2.5 Geology and Soils..... 2.5-1

 2.5.1 Existing Conditions 2.5-1

 2.5.2 Regulatory Setting 2.5-3

- 2.5.3 Analysis of Project Effects and Determination as to Significance..... 2.5-5
- 2.5.4 Cumulative Impact Analysis..... 2.5-11
- 2.5.5 Significance of Impacts Prior to Mitigation..... 2.5-11
- 2.5.6 Mitigation 2.5-12
- 2.5.7 Conclusions..... 2.5-13
- 2.6 **Greenhouse Gas Emissions** 2.6-1
 - 2.6.1 Existing Conditions 2.6-1
 - 2.6.2 Regulatory Setting 2.6-5
 - 2.6.3 Analysis of Project Effects and Determination as to Significance..... 2.6-20
 - 2.6.4 Generation of Construction-Related and Operational GHG Emissions 2.6-23
 - 2.6.5 Conflict with Regulations adopted for Purposes of Reducing GHG Emissions..... 2.6-35
 - 2.6.6 Significance of Impacts Prior to Mitigation..... 2.6-41
 - 2.6.7 Mitigation 2.6-41
 - 2.6.8 Conclusion..... 2.6-46
- 2.7 **Hazards and Hazardous Materials**..... 2.7-1
 - 2.7.1 Existing Conditions 2.7-1
 - 2.7.2 Analysis of Project Effects and Determination as to Significance..... 2.7-10
 - 2.7.3 Cumulative Impact Analysis..... 2.7-24
 - 2.7.4 Significance of Impacts Prior to Mitigation..... 2.7-26
 - 2.7.5 Mitigation 2.7-26
 - 2.7.6 Conclusions..... 2.7-29
- 2.8 **Land Use**..... 2.8-1
 - 2.8.1 Existing Conditions 2.8-1
 - 2.8.2 Analysis of Project Effects and Determination as to Significance..... 2.8-13
 - 2.8.3 Conflict with Any Applicable Land Use Plans, Policies, or Ordinances Adopted for Avoiding or Mitigating Environmental Effects 2.8-14
 - 2.8.4 Cumulative Impacts Analysis..... 2.8-28
 - 2.8.5 Significance of Impacts Prior to Mitigation..... 2.8-29
 - 2.8.6 Mitigation 2.8-29
 - 2.8.7 Conclusion..... 2.8-29
- 2.9 **Mineral Resources**..... 2.9-1
 - 2.9.1 Existing Conditions 2.9-1

- 2.9.2 Analysis of Project Effects and Determination as to Significance..... 2.9-5
- 2.9.3 Cumulative Impact Analysis..... 2.9-7
- 2.9.4 Significance of Impacts Prior to Mitigation..... 2.9-8
- 2.9.5 Mitigation 2.9-9
- 2.9.6 Conclusion..... 2.9-9
- 2.10 **Noise**..... 2.10-1
 - 2.10.1 Existing Conditions 2.10-1
 - 2.10.2 Analysis of Project Effects and Determination as to Significance..... 2.10-4
 - 2.10.3 Cumulative Impact Analysis..... 2.10-13
 - 2.10.4 Significance of Impacts Prior to Mitigation..... 2.10-15
 - 2.10.5 Mitigation 2.10-15
 - 2.10.6 Conclusion..... 2.10-17
- 2.11 **Transportation and Traffic** 2.11-1
 - 2.11.1 Existing Conditions 2.11-1
 - 2.11.2 Analysis of Project Effects and Determination as to Significance..... 2.11-11
 - 2.11.3 Cumulative Impacts 2.11-22
 - 2.11.4 Significance of Impacts Prior to Mitigation..... 2.11-26
 - 2.11.5 Mitigation 2.11-28
 - 2.11.6 Conclusions..... 2.11-35
- 2.12 **Utilities and Service Systems** 2.12-1
 - 2.12.1 Existing Conditions 2.12-1
 - 2.12.2 Analysis of Project Effects and Determination as to Significance..... 2.12-5
 - 2.12.3 Cumulative Impact Analysis..... 2.12-12
 - 2.12.4 Significance of Impacts Prior to Mitigation..... 2.12-15
 - 2.12.5 Mitigation 2.12-16
 - 2.12.6 Conclusions..... 2.12-16
- 2.13 **Significant Irreversible Environmental Changes Resultant From Project Implementation** 2.13-1
- 3 **EFFECTS NOT FOUND TO BE SIGNIFICANT** 3.1-1
 - 3.1 **Agricultural Resources** 3.1-1
 - 3.1.1 Existing Conditions 3.1-1
 - 3.1.2 Analysis of Project Effects and Determination as to Significance..... 3.1-6
 - 3.1.3 Cumulative Impacts 3.1-13

3.1.4 Conclusion..... 3.1-14

3.2 **Hydrology and Water Quality**..... 3.2-1

3.2.1 Existing Conditions 3.2-1

3.2.2 Regulatory Setting 3.2-4

3.2.3 Analysis of Project Effects and Determination as
to Significance 3.2-7

3.2.4 Cumulative Impact Analysis..... 3.2-17

3.2.5 Conclusion..... 3.2-19

3.2.6 Non-CEQA Additional Information Regarding
Coarse Sediment..... 3.2-19

3.3 **Population and Housing**..... 3.3-1

3.3.1 Existing Conditions 3.3-1

3.3.2 Analysis of Project Effects and Determination as
to Significance 3.3-3

3.3.3 Cumulative Impact Analysis..... 3.3-5

3.3.4 Conclusion..... 3.3-5

3.4 **Recreation** 3.4-1

3.4.1 Existing Conditions 3.4-1

3.4.2 Regulatory Setting 3.4-2

3.4.3 Analysis of Project Effects and Determination as
to Significance..... 3.4-6

3.4.4 Cumulative Impact Analysis..... 3.4-8

3.4.5 Conclusion..... 3.4-9

3.5 **Energy**..... 3.5-1

3.5.1 Existing Conditions 3.5-1

3.5.2 Regulatory Setting 3.5-2

3.5.3 Analysis of Project Effects and Determination as
to Significance..... 3.5-7

3.5.4 Cumulative Impact Analysis..... 3.5-12

3.5.5 Conclusion..... 3.5-13

3.6 **Public Services** 3.6-1

3.6.1 Existing Conditions 3.6-1

3.6.2 Analysis of Project Effects and Determination as
to Significance 3.6-7

3.6.3 Cumulative Impact Analysis..... 3.6-11

3.6.4 Conclusions..... 3.6-13

4 **PROJECT ALTERNATIVES** 4-1

4.1 **Rationale for Alternative Selection**..... 4-1

- 4.2 **No Development Alternative** 4-5
 - 4.2.1 **No Development Alternative Description**..... 4-5
 - 4.2.2 **Comparison of the Effects of the No Development Alternative to the Project** 4-5
- 4.3 **Estate Lots Alternative (Existing GP and Zoning)** 4-9
 - 4.3.1 **Estate Lot Alternative Description**..... 4-9
 - 4.3.2 **Comparison of the Effects of the Estate Lot Alternative to the Project**..... 4-10
- 4.4 **Reduced Footprint Alternative** 4-15
 - 4.4.1 **Reduced Footprint Alternative Description** 4-15
 - 4.4.2 **Comparison of the Effects of the Reduced Footprint Alternative to the Project**..... 4-15
- 4.5 **Reduced Density Alternative** 4-19
 - 4.5.1 **Reduced Density Alternative Description**..... 4-19
 - 4.5.2 **Comparison of the Effects of the Reduced Density Alternative to the Project**..... 4-19
- 4.6 **Environmentally Superior Alternative**..... 4-23
 - 4.6.1 **No Development Alternative** 4-23
 - 4.6.2 **Estate Lot Alternative** 4-23
 - 4.6.3 **Reduced Footprint Alternative**..... 4-23
 - 4.6.4 **Reduced Density Alternative**..... 4-24
- 5 **LIST OF REFERENCES** 5-1
- 6 **LIST OF EIR PREPARERS AND PERSONS AND ORGANIZATIONS CONTACTED** 6-1
- 7 **LIST OF MITIGATION MEASURES AND ENVIRONMENTAL DESIGN CONSIDERATIONS** 7-1
 - 7.1 **Mitigation Measures** 7-1
 - 7.1.1 **Aesthetics** 7-1
 - 7.1.2 **Air Quality** 7-2
 - 7.1.3 **Biological Resources**..... 7-3
 - 7.1.4 **Cultural Resources** 7-19
 - 7.1.5 **Geology and Soils**..... 7-34
 - 7.1.6 **Greenhouse Gas Emissions** 7-35
 - 7.1.7 **Hazards and Hazardous Materials** 7-38
 - 7.1.8 **Mineral Resources** 7-41
 - 7.1.9 **Noise** 7-41
 - 7.1.10 **Transportation and Traffic** 7-43
 - 7.1.11 **Utilities** 7-43

7.2 Environmental Design Considerations 7-44

7.2.1 Aesthetics 7-44

7.2.2 Air Quality 7-46

7.2.3 Greenhouse Gas Emissions 7-46

7.2.4 Utilities and Service Systems 7-47

7.2.5 Hydrology and Water Quality 7-47

7.2.6 Energy 7-47

APPENDICES

A Initial Study for the Warner Ranch Project, Notice of Preparation Comments

B Cumulative Projects List

C Visual Resources/Community Character/Growth Inducement Report

D Air Quality Assessment

E Biological Resources Report and Conceptual Resource Management Plan

F Cultural Resource Survey and Evaluation Program for the Warner Ranch Project

G Geological Reconnaissance

H Mineral Resource Technical Report

I Fire Protection Plan

J Phase I Environmental Site Assessment

K Noise Assessment

L Infrastructure Report, Water Supply Assessment

M Traffic Impact Study

N Agricultural Analysis

O Global Climate Change Analysis, Assumptions for VMT Reduction for Warner Ranch

P Preliminary Drainage study

Q Major Stormwater Management Plan

R Preliminary Hydromodification Management Study

S Pala Competitive Market Area (CMA) Jobs/Housing Market Analysis

FIGURES

1-1 Site Plan..... 1-49

1-2A Existing General Plan Land Use Designations 1-51

1-2B Proposed General Plan Land Use Designations 1-53

1-3 Warner Ranch Specific Plan 1-55

1-4 Generalized SPA Zone Reclassification..... 1-57

1-5 SPA and Existing Parcels..... 1-59

1-6 Conservation and Open Space Plan 1-61

1-7 Landscape Plan 1-63

Table of Contents

1-8A	Water Facilities.....	1-65
1-8B	Off-Site Water Line Extension	1-67
1-8C	Sewer Facilities	1-69
1-8D	Off-Site Sewer Line Extension	1-71
1-9	Conceptual Design, Fire Station.....	1-73
1-10	Conceptual Design, Clubhouse.....	1-75
1-11A	Conceptual Design, Public Park.....	1-77
1-11B	Conceptual Design, Private Park	1-79
1-12	Circulation Plan	1-81
1-13	Community Entry Plan	1-83
1-14	Road Section – Entry	1-85
1-15	Road Section – Residential Internal.....	1-87
1-16	Road Section – Alley.....	1-89
1-17A	Conceptual Design, Single-Family Home.....	1-91
1-17B	Conceptual Design, Duplex.....	1-93
1-17C	Conceptual Design, Sixplex	1-95
1-18	Conceptual Design, Walls and Fences	1-97
1-19A	Project Plan.....	1-99
1-19B	Project Sheet 3.....	1-101
1-19C	Project Sheet 4.....	1-103
1-19D	Project Sheet 5.....	1-105
1-19E	Project Sheet 6.....	1-107
1-19F	Project Sheet 7.....	1-109
1-19G	Project Sheet 8.....	1-111
1-19H	Project Sheet 9.....	1-113
1-19I	Private and Public Parks	1-115
1-19J	Lighting Plan and Park Locations.....	1-117
1-19K	Clubhouse	1-119
1-19L	Fire Station.....	1-121
1-19M	Fire Station.....	1-123
1-20	San Diego County Fire Authority	1-125
1-21	Parcels Requiring Annexation into Rainbow Municipal Water District.....	1-127
1-22	Slope Analysis.....	1-129
1-23	Regional Location Map	1-131
1-24	Project Location Map	1-133
1-25	Subregional Context Map.....	1-135
1-26	Existing Conditions.....	1-137
1-27	Cumulative Projects Map	1-139
2.1-1A	Photo Location Map – On-Site Views.....	2.1-51

Table of Contents

2.1-1B	On-Site Views	2.1-53
2.1-1C	On-Site Views	2.1-55
2.1-1D	On-Site Views	2.1-57
2.1-2A	Surrounding Land Uses	2.1-59
2.1-2B	Surrounding Land Uses	2.1-61
2.1-3A	Photo Location Map – Off-Site View	2.1-63
2.1-3B	Off-Site Views	2.1-65
2.1-4A	Key Views/Landscape Units.....	2.1-67
2.1-4B	Key View #1	2.1-69
2.1-4C	Key View #2	2.1-71
2.1-4D	Key View #3	2.1-73
2.1-5	Manufactured Slopes/Retaining Walls	2.1-75
2.1-6	Visual Analysis Context Map.....	2.1-77
2.3-1A	Biological Resources Index Map	2.3-111
2.3-1B	Biological Resources Map - On-Site A	2.3-113
2.3-1C	Biological Resources Map - On-Site B	2.3-115
2.3-1D	Biological Resources Map - On-Site C	2.3-117
2.3-1E	Biological Resources Map - Off-site Areas.....	2.3-119
2.3-2A	Wildlife Corridor and Linkage Map – Vicinity	2.3-121
2.3-2B	Wildlife Corridor and Linkage Map – Warner Ranch	2.3-123
2.3-3	Potential Habitat.....	2.3-125
2.3-4A	Project Biological Impacts Index Map	2.3-127
2.3-4B	Project Biological Impacts - On-Site A	2.3-129
2.3-4C	Project Biological Impacts - On-Site B	2.3-131
2.3-4D	Project Biological Impacts - On-Site C	2.3-133
2.3-5	Project Off-Site Biological Impacts	2.3-135
2.3-6	Critical Habitat with Impacts	2.3-137
2.3-7A	Biological Open Space Index Map	2.3-139
2.3-7B	Biological Open Space – On-Site A	2.3-141
2.3-7C	Biological Open Space – On-Site B	2.3-143
2.3-7D	Biological Open Space – On-Site C	2.3-145
2.3-7E	Biological Open Space – Off-Site A	2.3-147
2.3-8	Cumulative Projects Map	2.3-149
2.5-1	Geologic Map	2.5-15
2.5-2	Geologic Map on Aerial Photo.....	2.5-17
2.5-3	Transitional Boundary	2.5-19
2.5-4	Soil Types Found On Site	2.5-21
2.7-1	Fire Protection Plan.....	2.7-31
2.8-1a	Pala Village Expansion Analysis – 1938	2.8-31

Table of Contents

2.8-1b	Pala Village Expansion Analysis – 1946	2.8-33
2.8-1c	Pala Village Expansion Analysis – 1953	2.8-35
2.8-1d	Pala Village Expansion Analysis – 1964	2.8-37
2.8-1e	Pala Village Expansion Analysis – 1981	2.8-39
2.8-1f	Pala Village Expansion Analysis – 1989	2.8-41
2.8-1g	Pala Village Expansion Analysis – 2005	2.8-43
2.8-1h	Pala Village Expansion Analysis – 2006	2.8-45
2.8-1i	Pala Village Expansion Analysis – 2008	2.8-47
2.8-1j	Pala Village Expansion Analysis – 2009	2.8-49
2.8-1k	Pala Village Expansion Analysis – 2012	2.8-51
2.8-2	Surrounding Land Uses	2.8-53
2.8-3	Parcel Size (One-Mile Radius)	2.8-55
2.8-4	Total Parcel Acreage (One-Mile Radius).....	2.8-57
2.9-1	Mineral Resource Zones	2.9-11
2.9-2	On-Site Geology Formations.....	2.9-13
2.9-3	Impacted MRZ-2 Deposits.....	2.9-15
2.10-1	Locations of Noise Monitoring Stations	2.10-31
2.10-2	Future Noise Contour Locations.....	2.10-33
2.10-3	Modeled NSLU Receptor Locations	2.10-35
2.10-4	Off-Site Sewer Force Main Alignment within SR-76/Pala Road Existing ROW	2.10-37
2.10-5a	Off-Site Construction Activities: Existing Residential A	2.10-39
2.10-5b	Off-Site Construction Activities: Existing Residential B	2.10-41
2.10-6	Potential Properties Affected Near Project Site.....	2.10-43
2.10-7	Location and Required Heights of Noise Barriers	2.10-45
2.11-1	Project Study Area	2.11-51
2.11-2	Proposed Mobility Element Network Amendment	2.11-53
2.11-3	Direct Impact Locations.....	2.11-55
2.11-4	Cumulative Impact Locations	2.11-57
2.12-1	Water Districts.....	2.12-21
2.12-2	Water Conveyance System.....	2.12-23
2.12-3	Sewer Conveyance System	2.12-25
3.1-1	Agricultural Resources	3.1-15
3.1-2	Study Area	3.1-17
3.1-3	Important Farmlands within the Study Area	3.1-19
3.1-4	Agricultural Uses in the Study Area.....	3.1-21
3.2-1	Gomez Creek Watershed.....	3.2-21
3.2-2	Flood Zones	3.2-23
3.2-3	Henshaw Dam Inundation Zone.....	3.2-25

3.2-4 Pala Creek Watershed 3.2-27

3.2-5 Hydromodification Components 3.2-29

3.2-6 Inundation Zone 3.2-31

3.2-7 Existing Well Water Usage 3.2-33

3.4-1 Pala–Pauma Community Trails Map 3.4-11

3.4-2 Public and Private Trails..... 3.4-13

3.6-1 School District Boundary Map 3.6-15

4-1 PAA Alternative 4-27

4-2 Estate Lot Alternative 4-29

4-3 Reduced Footprint Alternative 4-31

4-4 Reduced Density Alternative 4-33

TABLES

S-1 Summary of Significant Effects S-11

S-2 Summary of Analysis for Alternatives to the Proposed Project S-59

1-1 Land Use Summary 1-32

1-2 Warner Ranch Lot Summary 1-33

1-3 Project Design Features..... 1-34

1-4 Matrix of Project Approvals/Permits 1-36

1-5 Cumulative Projects in the Vicinity of Warner Ranch 1-37

1-6 Other Potentially Developable Properties within Required Fire
Travel Times 1-47

2.1-1 Viewer Groups and Anticipated Exposure..... 2.1-49

2.1-2 Proposed Structural/Lot Design Characteristics 2.1-49

2.1-3 Proposed Building Coverage..... 2.1-50

2.2-1 SDAB Attainment Classification 2.2-33

2.2-2 Ambient Air Quality at Escondido East Valley Parkway Monitoring
Station (ppm unless otherwise stated) 2.2-33

2.2-3 Ambient Air Quality Standards 2.2-34

2.2-4 SDAPCD Air Quality Significance Thresholds..... 2.2-35

2.2-5 Construction Estimated Daily Maximum Emissions (lb/day) with
Project Design Features..... 2.2-36

2.2-6 Estimated Daily Maximum Operational Emissions at Full
Occupancy (lb/day) 2.2-36

2.2-7 Estimated CO Hotspot Concentration Levels 2.2-37

2.2-8 Construction Estimated Daily Maximum Emissions (lb/day)
with Mitigation 2.2-37

2.2-9 Expected Daily Pollutant Generation (lb/day)..... 2.2-38

2.2-10	Estimated Daily Maximum Combined Construction and Operational Emissions (lb/day)	2.2-39
2.3-1	Vegetation Communities and Land Cover Types	2.3-98
2.3-2	Jurisdictional Delineation Summary	2.3-99
2.3-3	Impacts to Non-Jurisdictional Vegetation Communities	2.3-100
2.3-4	Off-Site Impacts	2.3-100
2.3-5	Impacts to Waters and Wetlands of the U.S./State/County	2.3-101
2.3-6	Projects with Potential Cumulative Impacts to Biological Resources	2.3-102
2.3-7	Approximate Impacts to Habitat/Vegetation Types	2.3-104
2.3-8	Summary of Impacts, Mitigation, and Open Space for Vegetation Communities and Jurisdictional Areas	2.3-104
2.3-9	Summary of Mitigation Measures	2.3-108
2.4-1	Mitigation Measures for Cumulative Impacts in the Project Area	2.4-37
2.4-2	Significance of Impacts Prior to Mitigation.....	2.4-38
2.6-1	Global Warming Potentials and Atmospheric Lifetimes of Basic GHGs ..	2.6-47
2.6-2	California GHG Emissions by Sectors.....	2.6-47
2.6-3	San Diego County GHG Emissions by Sectors.....	2.6-47
2.6-4	Project Sizes that Would Typically Require a Climate Change Analysis .	2.6-48
2.6-5	Warner Ranch GHG Efficiency Metric.....	2.6-48
2.6-6	Estimated Construction GHG Emissions.....	2.6-48
2.6-7	2020 GHG Emissions.....	2.6-49
2.6-8	2025 GHG Emissions.....	2.6-50
2.6-9	Consistency Analysis with the Goals and Policy Objectives of SANDAG’s San Diego Forward.....	2.6-51
2.10-1	Noise Compatibility Guidelines (CNEL).....	2.10-19
2.10-2	Noise Standards.....	2.10-20
2.10-3	Existing Noise Levels	2.10-20
2.10-4	Construction Noise Levels from Rock Drills	2.10-21
2.10-5	Existing Traffic Parameters	2.10-21
2.10-6	Buildout 2030 Traffic Parameters.....	2.10-21
2.10-7	Future Exterior Noise Levels	2.10-21
2.10-8	Grading Operation Noise Levels	2.10-23
2.10-9	Construction Noise Levels and Equipment.....	2.10-23
2.10-10	Property Line Noise Levels from Sewer Pump/Lift Station	2.10-23
2.10-11	San Diego County Code Section 36.404 Sound Level Limits.....	2.10-24
2.10-12	Guideline for Determining the Significance of Groundborne Vibration and Noise Impacts	2.10-25
2.10-13	Existing Roadway Noise Levels	2.10-25
2.10-14	Existing Plus Project Noise Levels	2.10-26

Table of Contents

2.10-15	Existing vs. Existing Plus Project Noise Levels	2.10-27
2.10-16	Existing Plus Project Plus Cumulative Noise Levels	2.10-27
2.10-17	Existing vs. Existing Plus Project Plus Cumulative Noise Levels	2.10-28
2.10-18	Existing Plus Cumulative vs. Existing Plus Project Plus Cumulative Noise Levels.....	2.10-29
2.11-1a	Roadway Segment Level of Service Definitions.....	2.11-38
2.11-1b	SANTEC/ITE Measure of Significant Project Traffic Impacts	2.11-39
2.11-2	Signalized Intersection Level of Service.....	2.11-39
2.11-3	Project Trip Generation	2.11-39
2.11-4	Measures of Significant Project Impacts to Congestion: Allowable Increases On Two-Lane Highways with Signalized Intersection Spacing over 1 Mile.....	2.11-40
2.11-5	Measures of Significant Project Impacts to Congestion: Allowable Increases on Two-Lane Highways with Signalized Intersection Spacing under 1 Mile	2.11-40
2.11-6	Summary of Roadway Segment Conditions.....	2.11-40
2.11-7	Summary of Mitigated Roadway Segments – Existing Plus Project Conditions	2.11-41
2.11-8	Summary of Intersection Conditions AM Peak Hour	2.11-42
2.11-9	Summary of Intersection Conditions PM Peak Hour	2.11-43
2.11-10	Summary of Mitigated Intersections – Existing Plus Project Conditions	2.11-43
2.11-11	Cumulative Projects – General Plan Amendments and Casinos.....	2.11-44
2.11-12	Summary of Mitigated Roadway Segments – Cumulative Conditions...	2.11-44
2.11-13	Summary of Mitigated Intersections – Cumulative Conditions	2.11-45
2.11-14	Direct Impacts and Mitigation Measures	2.11-46
2.11-15	Project Traffic Percentages	2.11-47
2.11-16	Cumulative Impacts and Mitigation Measures—Roadway Segments ...	2.11-47
2.11-17	Cumulative Impacts and Mitigation Measures—Intersections.....	2.11-48
2.11-18	Fair Share Percentages	2.11-49
2.12-1	Warner Ranch Water and Wastewater Demand Projections.....	2.12-17
2.12-2	Total Regional Baseline Demand Forecast (acre-feet per year)	2.12-17
2.12-3	SDCWA Normal Year Demand and Supply Comparison (acre-feet per year).....	2.12-18
2.12-4	SDCWA Single-Dry Year Demand and Supply Comparison (acre-feet per year)	2.12-18
2.12-5	SDCWA Multiple-Dry Year Demand and Supply Assessment Three-Year Increments—2012–2014 and 2016–2018 (acre-feet per year)	2.12-19

2.12-6 SDCWA Multiple-Dry Year Demand and Supply Assessment
Three-Year Increments—2021–2023 and 2026–2028
(acre-feet per year) 2.12-19

2.12-7 SDCWA Multiple-Dry Year Demand and Supply Assessment
Three-Year Increments—2031–2033 (acre-feet per year) 2.12-20

3.1-1 Interpretation of LARA Model Results 3.1-14

3.3-1 Proposed Project Base Price Range 3.3-5

3.3-2 Proposed Project Composition 3.3-6

3.5-1 SDG&E Energy Mix in 2013 3.5-13

3.5-2 Construction Equipment 3.5-14

3.6-1 Student Generation Rates for School Districts Serving the Project 3.6-13

4-1 Summary of Analysis for Alternatives to the Proposed Project 4-24

M-GHG-5 Expected Construction CO₂E Emissions Summary 7-36

M-GHG-6 Year 2025 GHG Emissions and Carbon Offsets per Land Use
(metric tons) 7-38

ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
µg/kg	micrograms per kilogram
AAQS	ambient air quality standards
AB	Assembly Bill
ACM	asbestos-containing material
ACOE	U.S. Army Corps of Engineers
ADT	average daily trips
AEOA	Ambulance Exclusive Operating Area
AFY	acre-feet per year
AGR	general agriculture
amsl	above mean sea level
APCD	Air Pollution Control District
APN	Assessor's Parcel Number
AQMD	air quality management district
AST	aboveground storage tank
ASTREA	Air Support to Regional Enforcement Agencies
ATCM	Airborne Toxic Control Measure
BACT	Best Available Control Technology
BAU	business as usual
BCC	Birds of Conservation Concern
BIA	Bureau of Indian Affairs
BMO	Biological Mitigation Ordinance
BMP	Best Management Practice
BO	Biological Opinion
BRCA	Biological Resource Core Area
BUSD	Bonsall Unified School District
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CAL FIRE	California Department of Forestry and Fire Protection
Cal/OSHA	California Occupational Safety and Health Administration
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CCAA	California Clean Air Act
CCNR	Covenants Conditions and Restriction
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
CEQA	California Environmental Quality Act
CFC	California Fire Code
CFR	Code of Federal Regulations
cfs	cubic feet squared
CH ₄	methane
CHHSL	California Human Health Screening Level
CIG2	Cieneba Sandy Loam
CMA	Competitive Market Area
CMA	Competitive Market Area
CMP	Congestion Management Program
CMP	Congestion Management Program
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ E	carbon dioxide equivalent
COA	Conditions of Approval
CPUC	California Public Utilities Commission
CRPR	California Rare Plant Rank
CSA	County Services Area
CSS	coastal sage scrub
CWA	Clean Water Act
CY	cubic yards
DEV	urban/developed
DH	disturbed habitat
DPLU	Department of Planning and Land Use
DPM	diesel particulate matter
DPR	Department of Parks and Recreation
DPW	Department of Public Works
EAR	environmental assessment review
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EISA	Energy Independence and Security Act of 2007
EO	Executive Order
EPA	Environmental Protection Agency
EPIC	Energy Policy Initiative Center
ESA	Environmental Site Assessment
F	Fahrenheit
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FESA	federal Endangered Species Act
FHWA	Federal Highway Administration

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
FIRM	Federal Insurance Rate Map
FMMP	Farming Mapping and Monitoring Program
FMZ	Fuel Management Zone
FPP	Fire Protection Plan
g/L	gallons per liter
GHG	greenhouse gas
GIS	geographic information system
GLU	Geomorphic Landscape Units
GPCPD	gallons per capita per day
gpd	gallons per day
GPS	Global Positioning System
GWP	global warming potential
HAP	hazardous air pollutant
HCFC-22	chlorodifluoromethane
HCP	Habitat Conservation Plan
HFC	hydrofluorocarbon
HLP	Habitat Loss Permit
HMP	Habitat Management Plan
HOA	homeowners association
I-15	Interstate 15
kW	kilowatts
kWh	kilowatt-hours
LAFCO	Local Agency Formation Commission
LARA	Local Agricultural Resources Assessment
LBP	lead-based paints
LBZ	Limited Building Zone
LCFS	Low Carbon Fuel Standard
LID	Low Impact Development
LOS	level of service
LOW	coast live oak woodland
LPC	Light Pollution Code
LTRP	long-term energy resource plan
MCL	maximum contaminant level
MFD	Multifamily Dwelling
MFS	mulefat scrub
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MGD	million gallons per day
MLD	Most Likely Descendant
MOU	Memorandum of Understanding
MPH	miles per hour
MPO	Metropolitan Planning Organization
MRZ	Mineral Resource Zone

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
MSCP	Multiple Species Conservation Program
MSR	Municipal Service Review
N ₂ O	nitrous oxides
NA	not applicable
NAAQS	National Ambient Air Quality Standards
NCCP	Natural Community Conservation Plan
NCFPD	North County Fire Protection District
NCMSCP	North County Multiple Species Conservation Program
NF ₃	nitrogen trifluoride
NHTSA	National Highway Traffic Safety Administration
NNG	non-native grassland
NO	nitric oxide
NO ₂	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOP	Notice of Preparation
NPDES	National Pollutant Discharge Elimination System
NSLU	Noise Sensitive Land Use
NVC	non-vegetated channel
O ₃	ozone
OEHHA	Office of Environmental Health Hazard Assessment
OES	Office of Emergency Services
OHWM	ordinary high water mark
OPR	Office of Planning and Research
ORC	orchard and vineyards
ORF	southern coast live oak riparian forest
PAMA	Pre-Approved Mitigation Area
PCC	Portland Cement Concrete
PDS	County Planning & Development Services
PFC	perfluorocarbon
PLDO	Park Lands Dedication Ordinance
PM ₁₀	particulate matter less than 10 microns
PM _{2.5}	particulate matter less than 2.5 microns
POC	Point of Compliance
PRC	Public Resources Code
PV	photovoltaic
RAA	Resource Avoidance Areas
RAQS	Regional Air Quality Strategy
RCA	Resource Conservation Area
RCP	Regional Comprehensive Plan
RCWMD	Riverside County Waste Management District
REC	recognized environmental condition
REL	reference exposure level
RFS	Renewable Fuel Standard

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
RMP	Resource Management Plan
RMWD	Rainbow Municipal Water District
ROG	reactive organic gas
ROW	right-of-way
RPO	Resource Protection Ordinance
RSL	Regulatory Screening Level
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SAM	Site Assessment and Mitigation
SAMP	Special Area Management Plan
SANDAG	San Diego Association of Governments
SanMAPS	San Diego Multiple Agency Public Safety System
SAW	sycamore alluvial woodland
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCIC	South Coastal Information Center
SCS	Sustainable Communities Strategy
SCWRF	southern cottonwood willow riparian forest
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDCFA	San Diego County Fire Authority
SDCWA	San Diego County Water Authority
SF ₆	sulfur hexafluoride
SFD	Single Family Dwelling
SGMA	Sustainable Groundwater Management Act of 2014
SHL	sensitive habitat lands
SIP	State Implementation Plan
SLRWTP	San Luis Rey Wastewater Treatment Plant
SMARA	Surface Mining and Reclamation Act
SMC	southern mixed chaparral
SO ₂	sulfur dioxide
SOC	scrub oak chaparral
SOI	sphere of influence
SOR	Statement of Reasons
SOR	Statement of Reasons
SR	State Route
SRA	State Responsibility Areas
SSA	Special Study Area
SSC	Species of Special Concern
STP	shovel test pit
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
TAC	toxic air contaminant
T-BACT	Toxics Best Available Control Technology
TDS	total dissolved solids
TIF	Transportation Impact Fee
UBC	Uniform Building Code
UDC	Unified Disaster Council
USFWS	U.S. Fish and Wildlife Service
UST	Underground Storage Tank
UWMP	Urban Water Management Plan
V/C	volume-to-capacity ratio
VGL	Valley needlegrass grassland
VMT	vehicle miles traveled
VOC	Volatile Organic Compounds
Water Authority	San Diego County Water Authority
WPO	Watershed Protection, Storm Water Management, and Discharge Control Ordinance
WSA	Water Supply Analysis