

# **THIRD PARTIAL RECIRCULATED DRAFT EIR CENTRAL EL DORADO HILLS SPECIFIC PLAN**

**STATE CLEARINGHOUSE #2013022044**

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# Contents

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List of Tables .....	iii
List of Acronyms and Abbreviations .....	iv
<b>Chapter 1 Introduction .....</b>	<b>1-1</b>
1.1 Background and Purpose of this Document .....	1-1
1.1.1 Reason for Recirculation .....	1-1
1.2 Organization of the Document and Summary of Changes .....	1-2
1.3 Public Review Process .....	1-3
1.3.1 Limitation on Comments .....	1-3
1.4 Use of this Document .....	1-3
<b>Chapter 2 Project Description .....</b>	<b>2-1</b>
2.1 Project Objectives .....	2-1
2.2 Project Overview .....	2-2
<b>Chapter 3 Impact Analysis .....</b>	<b>3-1</b>
3.2 Air Quality .....	3-1
3.2.1 Existing Conditions .....	3-1
3.2.2 Environmental Impacts .....	3-16
3.6 Greenhouse Gas Emissions .....	3-42
3.6.1 Existing Conditions .....	3-42
3.6.2 Environmental Impacts .....	3-52
<b>Chapter 4 Alternatives Analysis .....</b>	<b>4-1</b>
4.1 Alternatives Overview .....	4-1
4.2 Alternatives Development and Screening Criteria .....	4-1
4.2.1 Ability to Meet Project Objectives .....	4-2
4.2.2 Impact Avoidance .....	4-3
4.2.3 Feasibility .....	4-7
4.3 Alternatives Analysis .....	4-8
4.3.1 Alternative 1—No Project .....	4-11
4.3.2 Alternative 2—Reduced Density .....	4-14
4.3.3 Alternative 3—Reduced Wetland Impact .....	4-18
4.3.4 Alternative 4—Zoning-Consistent .....	4-21
4.3.5 Alternative 5—Senior Living .....	4-25
4.4 Environmentally Superior Alternative .....	4-29
4.5 Alternatives Considered but Dismissed from Further Evaluation in this Draft EIR .....	4-34

**Chapter 5 Other CEQA Considerations..... 5-1**

5.1 Overview ..... 5-1

5.2 Cumulative Impacts ..... 5-1

5.2.1 Cumulative Scenario..... 5-2

5.2.2 Analysis of Potential Cumulative Impacts ..... 5-8

5.3 Significant and Unavoidable Impacts..... 5-10

5.3.1 Air Quality..... 5-11

5.3.2 Cultural Resources..... 5-11

5.3.3 Greenhouse Gas Emissions ..... 5-11

5.3.4 Noise..... 5-11

5.4 Significant Irreversible Environmental Changes ..... 5-11

**Chapter 6 References Cited ..... 6-1**

Chapter 1, *Introduction* ..... 6-1

Chapter 2, *Project Description*..... 6-1

Chapter 3, *Impact Analysis* ..... 6-1

Section 3.2, *Air Quality*..... 6-1

Section 3.6, *Greenhouse Gas Emissions* ..... 6-4

Chapter 4, *Alternatives Analysis*..... 6-6

Chapter 5, *Other CEQA Considerations* ..... 6-6

**Appendix A, Air Quality and GHG Technical Report**

**Appendix B, Carbon Monoxide Modeling**



# List of Tables

	<b>Page</b>
Table 3.2-1. National and State Ambient Air Quality Standards .....	3-2
Table 3.2-2. Ambient Criteria Air Pollutant Monitoring Data (2020–2022) .....	3-11
Table 3.2-3. Federal and State Attainment Status for the Project Area .....	3-12
Table 3.2-4. Sensitive Receptors in the Project Vicinity .....	3-15
Table 3.2-5. Estimated Maximum Unmitigated Construction Emissions (pounds per day) .....	3-26
Table 3.2-6. Estimated Maximum Mitigated Construction Emissions (pounds per day) .....	3-27
Table 3.2-7. Estimated Operational Emissions (pounds per day) .....	3-30
Table 3.2-8. Estimated Mitigated Combined Construction and Operational Emissions (pounds per day) .....	3-31
Table 3.2-9. Conservative Estimate of Increased Regional Health Effect Incidence Resulting from Buildout of the CEDHSP (cases per year).....	3-35
Table 3.2-10. Modeled Carbon Monoxide Concentrations at Modeled Intersections.....	3-37
Table 3.6-1. Lifetimes and Global Warming Potentials of Key Greenhouse Gases .....	3-51
Table 3.6-2. Global, National, and State Greenhouse Gas Emission Inventories .....	3-52
Table 3.6-3. Informational Greenhouse Gas Efficiency Benchmarks.....	3-61
Table 3.6-4. Estimated Construction GHG Emissions (metric tons CO <sub>2</sub> e per year) .....	3-62
Table 3.6-5. Estimated Operational GHG Emissions (metric tons per year, unless otherwise stated) .....	3-63
Table 3.6-6. Estimated Operational GHG Emissions with Implementation of Quantified Mandatory CEDHSP Policies (metric tons per year, unless otherwise stated).....	3-64
Table 3.6-7. Consistency of the CEDHSP with the 2022 Scoping Plan Key Project Attributes for Transportation Electrification and VMT Reduction .....	3-69
Table 3.6-8. Estimated Full Build Operational GHG Emissions with Implementation of Quantifiable Revisions to CEDHSP Policies Required by Mitigation Measure GHG- 2 (metric tons per year, unless otherwise stated) .....	3-73
Table 3.6-9. Project Mobile, Area, Construction, and Building Natural Gas Sector Emissions Subject to Reduction under Mitigation Measure GHG-2 (metric tons CO <sub>2</sub> e) .....	3-77
Table 3.6-10. CEDHSP Consistency with 2017 Scoping Plan Policies .....	3-90
Table 4-1. Alternatives Analyzed .....	4-9
Table 4-2. Comparison of Environmental Impacts of Alternatives to the Proposed Project.....	4-31
Table 5-1. El Dorado County Approved Projects – —2004 County General Plan .....	5-3
Table 5-2. Other Projects .....	5-5

## List of Acronyms and Abbreviations

<b>Term</b>	<b>Definition</b>
°C	degrees Celsius
°F	degrees Fahrenheit
2008 Scoping Plan	<i>2008 Climate Change Scoping Plan for AB 32</i>
2014 First Update	<i>First Update to the AB 32 Scoping Plan</i>
2017 Ozone Plan	<i>Sacramento Regional 2008 8-Hour Ozone Attainment and Reasonable Further Progress Plan</i>
2017 Scoping Plan	<i>2017 Scoping Plan Update</i>
2022 Scoping Plan	<i>2022 Scoping Plan for Achieving Carbon Neutrality</i>
AB	Assembly Bill
ACR	American Carbon Registry
Air Quality and GHG Technical Report	<i>Air Quality and Greenhouse Gas Modeling Technical Report for the Central El Dorado Hills Specific Plan</i>
ANAB	ANSI National Accreditation Board
BAAQMD	Bay Area Air Quality Management District
BAU	business-as-usual
BMPs	Best Management Practices
C <sub>2</sub> H <sub>3</sub> Cl	vinyl chloride
CAA	Clean Air Act
CAAQS	California ambient air quality standards
CAFE	corporate average fuel economy
CalEEMod	California Emissions Estimator Model
CALGreen Code	2019 California Green Building Standards Code
CalRecycle	California Department of Resources Recycling and Recovery
CAP	climate action plan
CAPCOA	California Air Pollution Control Officers Association
CAR	Climate Action Reserve
CARB	California Air Resources Board
Carl Moyer Program	Carl Moyer Memorial Air Quality Standards Attainment Program
CBIA v. BAAQMD	<i>California Building Industry Assoc. v. Bay Area Air Quality Management District</i>
CCAA	California Clean Air Act
CCAs	Community Choice Aggregations
CCR	California Code of Regulations
CCRC	continuing care retirement community
CDPH	California Department of Public Health
CEC	California Energy Commission
CEDHSP	<i>Central El Dorado Hills Specific Plan</i>

<b>Term</b>	<b>Definition</b>
CEQA	California Environmental Quality Act
CEQA Guidelines	<i>California Environmental Quality Act Air Quality Guidelines</i>
CH <sub>4</sub>	methane
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
COP21	21st Session of the Conference of Parties
COP27	27th Session of the Conference of Parties
County	El Dorado County
CPUC	California Public Utilities Commission
DEIR	Draft Environmental Impact Report
DPM	diesel particulate matter
du/ac	dwelling units per acre
EDCAQMD	El Dorado County Air Quality Management District
EDCAQMD CEQA Guidelines	<i>Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act</i>
EDCTA	El Dorado County Transit Authority
EDHSP	<i>El Dorado Hills Specific Plan</i>
EID	El Dorado Irrigation District
EO	Executive Orders
EPCA	Environmental Policy and Conservation Act
ESPs	energy service providers
FAR	floor area ratio
FMU	forecasted mitigation unit
Friant Ranch Decision	<i>Sierra Club v. County of Fresno 6 Cal. 5th 502</i>
Friant Ranch Guidance	<i>Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District</i>
Friant Ranch Project	Community Plan Update and Friant Ranch Specific Plan
General Plan	El Dorado County General Plan
GHG	greenhouse gas
Golden Door I	<i>Golden Door Properties/Sierra Club vs. County of San Diego</i>
Golden Door II	<i>Golden Door Properties, LLC v. County of San Diego</i>
GWP	global warming potential
H <sub>2</sub> S	hydrogen sulfide
HAP	hazardous air pollutant
HFC	hydrofluorocarbon
HI	hazard index
Hot Spots Act	Air Toxics Hot Spots Information and Assessment Act of 1987
IOUs	investor-owned utilities
IPCC)	Intergovernmental Panel on Climate Change

<b>Term</b>	<b>Definition</b>
i-Tree	U.S. Department of Agriculture, Forest Service’s i-Tree Planting Calculator
LCFS	low carbon fuel standard
LED	light-emitting diode
LEED	Leadership in Energy and Environmental Design
LRVSP	Lime Rock Valley Specific Plan
LTAB	Lake Tahoe Air Basin
MCAB	Mountain Counties Air Basin
MERV	minimum efficiency reporting value
MFR	multifamily residential
MPO	metropolitan planning organization
MTP	Metropolitan Transportation Plan
N <sub>2</sub> O	nitrous oxide
NAAQS	national ambient air quality standards
NDC	nationally determined contributions
Newhall Ranch	<i>Center for Biological Diversity et al. vs. California Department of Fish and Wildlife, the Newhall Land and Farming Company</i>
NHTSA	National Highway Traffic Safety Administration
NO	nitric oxide
NO <sub>2</sub>	nitrogen dioxide
NOA	naturally occurring asbestos
NO <sub>x</sub>	nitrogen oxides
O&M	operations and maintenance
OPR	Governor’s Office of Planning and Research
Pb	lead
pCi	picocurie
pCi/L	picocurie per liter
PD	Planned Development
PEV	plug-in electric vehicle
PFCs	perfluorocarbons
PM	particulate matter
PM <sub>10</sub>	particulate matter 10 microns in diameter or less
PM <sub>2.5</sub>	particulate matter 2.5 microns in diameter or less
ppb	parts per billion
PRC	Public Resources Code
project	Montano De El Dorado Phase I and II Master Plan
proposed project	Central El Dorado Hills Specific Plan
PV	photovoltaic
RCEM	Roadway Construction Emissions Model
RFH	Recreational Facilities, High-Intensity

<b>Term</b>	<b>Definition</b>
RHNA	Regional Housing Needs Allocations
ROG	reactive organic compounds
RPS	Renewables Portfolio Standard
RTPs	regional transportation plans
SACOG	Sacramento Area Council of Governments
SB	Senate Bill
SB 743 Technical Advisory	<i>Technical Advisory on Evaluating Transportation Impacts in CEQA</i>
SCS	Sustainable Communities Strategy
SF <sub>6</sub>	sulfur hexafluoride
SFNA	Sacramento Federal Nonattainment Area
SIP	State Implementation Plan
SLCP	Short-Lived Climate Pollutant
SMAQMD	Sacramento Metropolitan Air Quality Management District
SO <sub>2</sub>	sulfur dioxide
SO <sub>4</sub>	sulfates
TAC	toxic air contaminant
Tanner Act	Toxic Air Contaminant Identification and Control Act
TGPA	targeted general plan amendment
TMP	Transportation Management Plan
Under2 MOU	Global Climate Leadership Memorandum of Understanding
US 50	U.S. Route 50
USEPA	U.S. Environmental Protection Agency
VMT	vehicle miles traveled
VMVSP	<i>Village of Marble Valley Specific Plan</i>
VOC	volatile organic compounds
WWTP	Wastewater Treatment Plant
ZOU	zoning ordinance update

## 1.1 Background and Purpose of this Document

El Dorado County (County) released the *Central El Dorado Hills Specific Plan* (CEDHSP) (proposed project) *Draft Environmental Impact Report* (DEIR) for a 60-day public review period on November 20, 2015 (ICF International 2015). In response to requests from the public, the County subsequently extended the review period for another 30 days, with the review period ending February 19, 2016. The CEDHSP DEIR and supporting documents are available at [https://www.edcgov.us/Government/planning/specific%20plans/ProposedSpecificPlans/pages/proposed\\_specific\\_plans.aspx](https://www.edcgov.us/Government/planning/specific%20plans/ProposedSpecificPlans/pages/proposed_specific_plans.aspx).

California Environmental Quality Act (CEQA) Guidelines Section 15088.5 provides that all or a portion of a DEIR must be recirculated for public review and comment prior to certification when significant new information is added to the DEIR. *Recirculation* simply means that the public is provided an opportunity to comment on the new or revised sections of the DEIR. Recirculation is not required where the new information merely clarifies, amplifies, or makes insignificant modifications to the DEIR.

In April 2016, the County published a Partial Recirculated DEIR to reflect the direction of the California Supreme Court regarding methods of evaluating greenhouse gas (GHG) emissions. No changes to the CEDHSP project were proposed. The changes to the DEIR contained in the first Partial Recirculated DEIR were limited to revising the GHG emissions impact analysis in light of the Newhall Ranch decision. The Final EIR was prepared and circulated in October 2019, but has yet to be presented to the Board of Supervisors for review and certification.

In April 2021, the County published a Second Partial Recirculated DEIR to reflect changes in traffic analysis that arose from changes in CEQA and add two additional project alternatives in response to public comments encouraging the applicants and the County to examine other uses for the site of the former Executive Golf Course. The Revised Final EIR was prepared in April 2022.

This document is the Third Partial Recirculated DEIR for the CEDHSP. As authorized under State CEQA Guidelines Section 15088.5(c), the revisions to the DEIR are limited to portions of the DEIR; therefore, only those portions are included in the Third Partial Recirculated DEIR. For that reason, the Third Partial Recirculated DEIR includes only those chapters in which changes are being made. In addition, none of the figures in the DEIR have been changed.

### 1.1.1 Reason for Recirculation

The State CEQA Guidelines indicate that “significant new information” requiring recirculation would include a new significant environmental impact, or a substantial increase in the severity of an environmental impact that would result unless mitigation measures were adopted that reduced the impact to a level of insignificance, or a feasible project alternative or mitigation measure considerably different from others previously analyzed in the DEIR (Section 15088.5a). The CEDHSP DEIR (State Clearinghouse #2013022044) has been partially revised to address adoption of the statewide 2045 GHG-reduction goal per Assembly Bill (AB) 1279, release of the California Air Resources Board’s (CARB) 2022 Scoping Plan, and project-level implications of *California*

*Association of Restaurants vs. City of Berkeley*. Therefore, the changes to the DEIR contained in this Third Partial Recirculated DEIR are focused on updating the Air Quality and GHG sections, remodeling emissions (using an updated version of CalEEMOD), and 2022 Scoping Plan consistency analysis. There are no changes to the CEDHSP project itself.

## 1.2 Organization of the Document and Summary of Changes

The Third Partial Recirculated DEIR includes the following sections.

- **Chapter 1, Introduction.** This chapter discusses the purpose of this Third Partial Recirculated DEIR and summarizes the revisions being made to the CEDHSP DEIR, the public review process, and use of this document.
- **Chapter 2, Project Description.** There are no project description changes; however, Section 2.1, *Project Objectives*, and Section 2.2, *Project Overview*, from the November 2015 DEIR, with minor revisions made in recirculations shown in ~~strikeout~~ and underline, are included in this document to inform the reader about the proposed project. This information is provided to assist in the review of the Third Partial Recirculated DEIR.
- **Chapter 3, Section 3.2, Air Quality, and Section 3.6, Greenhouse Gas Emissions.** The text presented in these sections replaces the previous Section 3.2, *Air Quality*, from the November 2015 DEIR and Section 3.6, *Greenhouse Gas Emissions*, from the April 2016 Partial Recirculated DEIR. No text from any other sections of the November 2015 DEIR or April 2016 Partial Recirculated DEIR is included.
- **Revised Chapter 4, Alternatives Analysis.** This chapter includes additional discussion of comparative air quality and GHG impacts for Alternatives 1, 2, and 3. Proposed additions are shown in underline; any deletions are shown in ~~strikeout~~. The subsections under Section 4.3, *Alternatives Analysis*, that are unchanged are identified by the bracketed phrase: [No changes from November 2015 DEIR.].
- **Revised Chapter 5, Other CEQA Considerations.** This chapter contains excerpts from the November 2015 DEIR's *Other CEQA Considerations* chapter that contain revised discussions of cumulative air quality and GHG impacts. Proposed additions are shown in underline; any deletions are shown in ~~strikeout~~. The remainder of the chapter is unchanged, and its text is not included here. The subsections under Section 5.2.2, *Analysis of Potential Cumulative Impacts*, that are unchanged are identified by the bracketed phrase: [No changes from November 2015 DEIR.].
- **Revised Chapter 6, References.** This section includes only the new references cited in the Third Partial Recirculated DEIR that are not included in Chapter 7, *References*, of the November 2015 DEIR.
- **Appendices.** Two new appendices are provided. Appendix A contains the *Air Quality and GHG Technical Report* and Appendix B contains the Carbon Monoxide Modeling.

## 1.3 Public Review Process

The Third Partial Recirculated DEIR will be available for a 45-day public review period, from November 28, 2023 and ending January 26, 2024. The Third Partial Recirculated DEIR was circulated to state agencies for review through the State Clearinghouse of the Governor's Office of Planning and Research (OPR). Copies of the Third Partial Recirculated DEIR are available for public review on the County's website at

[https://www.edcgov.us/Government/planning/specific%percent20plans/ProposedSpecificPlans/Pages/proposed\\_specific\\_plans.aspx](https://www.edcgov.us/Government/planning/specific%percent20plans/ProposedSpecificPlans/Pages/proposed_specific_plans.aspx). Hard copies are available at the El Dorado Hills Library, 7455 Silva Valley Parkway, El Dorado Hills; the Placerville Library, 345 Fair Lane, Placerville; and, during normal business hours, at the public counter at the Community Development Agency, 2850 Fairlane Court, Building C, Placerville.

Written comments on this Third Partial Recirculated DEIR can be submitted by mail to:

Mr. Robert Peters  
El Dorado County Planning and Building Department  
2850 Fairlane Court, Building C  
Placerville, CA 95667

Written comments can also be submitted by email to [CEDHSP@edcgov.us](mailto:CEDHSP@edcgov.us).

### 1.3.1 Limitation on Comments

State CEQA Guidelines Section 15088.5(f)(2) states that:

When the EIR is revised only in part and the lead agency is recirculating only the revised chapters or portions of the EIR, the lead agency may request that reviewers limit their comments to the revised chapters or portions of the recirculated EIR. The lead agency need only respond to (i) comments received during the initial circulation period that relate to chapters or portions of the document that were not revised and recirculated, and (ii) comments received during the recirculation period that relate to the chapters or portions of the earlier EIR that were revised and recirculated. The lead agency's request that reviewers limit the scope of their comments shall be included either within the text of the revised EIR or by an attachment to the revised EIR.

In keeping with this provision, the County requests that commenters limit their written comments to the revisions and new material presented in this Third Partial Recirculated DEIR, which consists of Chapter 1, *Introduction*, Chapter 2, *Project Description*, Chapter 3, *Impacts Analysis (Air Quality and GHG only)*, Chapter 4, *Alternatives Analysis*, Chapter 5, *Other CEQA Considerations*, and Chapter 6, *References Cited*.

## 1.4 Use of this Document

This Third Partial Recirculated DEIR will be combined with the previously circulated 2015 DEIR, the 2016 Partial Recirculated DEIR that addressed GHGs (as part of the Revised Final EIR), and the 2021 Second Partial Recirculated DEIR that covered project description changes, changes in the traffic analysis, and the addition of two project alternatives. The Revised Final EIR includes responses to the comments received on the original DEIR and the first and second Partial Recirculated DEIR. Errata to the Revised Final EIR will include responses to comment received on this Third Partial Recirculated DEIR.



The Board of Supervisors will certify the Revised Final EIR and errata prior to completing its deliberations on the proposed project. If it approves the proposed project, then the Board will adopt the findings, statement of overriding considerations, and mitigation monitoring and reporting program that CEQA requires.

**This Third Partial Recirculated DEIR is not the Final EIR.** An errata to the Revised Final EIR will include other revisions and clarifications in response to the comments received in this document. The Revised Final EIR (April 2022) includes revision and clarifications in response to comments received on the DEIR and the first and second Partial Recirculated DEIR, or as needed to otherwise clarify the Revised Final EIR.

There are no substantive changes to the project description. Minor revisions to update the discussion are shown in strike-out and underline. The project objectives and overview have been included simply to inform the reader about the project without having to refer to prior documentation.

## 2.1 Project Objectives

El Dorado County’s primary objective for the proposed project is to create development patterns that make the most efficient and feasible use of existing infrastructure and public services while promoting a sense of community as envisioned by the County *General Plan*. There are an additional 15 objectives of the proposed project, as follows.

- Fulfill regional land use objectives by achieving Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS) Consistency. Establish new development that fulfills regional land use objectives by directing growth to the established community of El Dorado Hills and achieving consistency with The Sacramento Area Council of Governments’ (SACOG’s) adopted 2020~~2035~~ MTP/SCS.
- ***Curtail suburban sprawl.*** Curtail suburban sprawl (County General Plan Goal 2.1) by utilizing undeveloped infill sites and promoting mixed-use development patterns to accommodate the County’s future population growth and support economic expansion.
- ***Assist in meeting future Regional Housing Needs Allocations (RHNA) needs.*** Assist in meeting the County’s RHNA for the *2022–2030 Housing Element Update* by introducing new lands zoned multifamily.
- ***Broaden the housing stock in El Dorado Hills.*** Maximize opportunities for higher-density housing as an alternative to single-family detached dwellings. Offer land uses to accommodate various lot sizes, densities, and product types to satisfy the market demands of existing and future household types, sizes, and income levels (County General Plan Goal HO-1), including the senior population (County General Plan Goal HO-4).
- ***Provide a strong community identity and quality built environment.*** Establish a community setting with an identifiable character and a visually attractive design theme that is compatible with the surrounding area and contributes to the quality of life and economic health (County General Plan Goal 2.4). Carefully plan and incorporate visual elements that enhance and promote a sense of community (County General Plan Goal 2.5) and provide quality residential environments for all income levels (County General Plan Goal HO-2).
- ***Utilize existing infrastructure and public services.*** Promote compact land use patterns in Community Regions to maximize existing public services, such as water, wastewater, parks, schools, solid waste, fire protection, law enforcement, and libraries, thus accommodating new growth in an efficient manner (County General Plan Goal 5.1).
- ***Improve connectivity of the regional roadway network.*** Provide an opportunity for the County to expand its regional roadway network and improve parallel capacity to US 50.

- **Encourage future transit opportunities.** Locate development in the El Dorado Hills Community Region within walking distance of El Dorado Hills Boulevard to improve the feasibility of future transit services, thus reducing traffic congestion and offer alternative transportation choices to a range of users (County General Plan Goal TC-2).
- **Create a new nonmotorized transportation system.** Create a new nonmotorized transportation system (County General Plan Goal TC-4) linking new development to existing retail services. Incorporate Class I bike paths, “complete streets” with Class II bike lanes, and sidewalks in new development to promote alternative transportation modes and reduce vehicle miles traveled.
- **Improve north–south pedestrian and bicycle connectivity.** Reduce barriers to pedestrians created by US 50 and improve access between the north and south sides of the freeway and improve pedestrian and bicycle safety.
- **Provide opportunities for recreational facilities in El Dorado Hills.** Provide recreational facilities for the health and welfare of residents and visitors (County General Plan Goal 9.1), thus promoting opportunities to capitalize on recreational uses through tourism and recreational-based businesses and industries (County General Plan Goal 9.3).
- **Maintain characteristics of natural landscape.** Maintain natural landscape features, including ridgelines (County General Plan Goal 2.3), conserve existing natural resources for ecological value (County General Plan Goal 7.4), and conserve open space to provide for the enjoyment of scenic beauty (County General Plan Goal 7.6).
- **Minimize impacts on oak woodlands.** Minimize impacts on the oak woodlands by directing new development to areas with minimal or little oak canopy.
- **Protect important cultural resources.** Protect the County’s important cultural resources (County General Plan Goal 7.5), including significant prehistoric and Native American resources and unique historical features of the County’s Gold Rush history.
- **Foster sustainable communities.** Foster sustainable communities (County General Plan Goal 2.1) by utilizing sustainable design practices to reduce greenhouse gas emissions and increase the efficiency of energy and water use in new development (County General Plan Goal HO-5).

## 2.2 Project Overview

The proposed project would provide for development of up to 1,000 dwelling units, 11 acres of civic-limited commercial use (50,000 square feet of commercial use), 15 acres of community active park, a 1-acre neighborhood park, and ~~169~~ 175 acres of open space (~~168~~ 174 acres of natural open space and a 1-acre neighborhood park) in the center of the El Dorado Hills community. As mentioned in Second Recirculated DEIR Section 2.1.2, *Existing Conditions and Land Uses*, the proposed project consists of two planning areas.

1. The **Serrano Westside planning area** would complement the existing Serrano development with gated residential neighborhoods and would include civic or commercial and community park development.
2. The **Pedregal planning area** would have residential neighborhoods, which may or may not be gated.

This section replaces the previous Sections 3.2, *Air Quality*, and 3.6, *Greenhouse Gas Emissions*, in the DEIR in their entirety. No text from any other sections of the DEIR is included because no changes are required.

## 3.2 Air Quality

*Air quality* describes the amount of air pollution to which the public is exposed. Air quality is an important consideration for build-out of the CEDHSP because of current regional air quality conditions, which exceed certain federal and state ambient air quality standards. The air quality study area encompasses the areas directly and indirectly affected by construction activities and operation of new development within the CEDHSP. Two geographic scales define the study area—the *local study area* is the construction footprint plus areas within 1,000 feet, and the *regional study area* is the affected air basin. The CEDHSP is in unincorporated El Dorado County, which is within the Mountain Counties Air Basin (MCAB).

This section discusses applicable air quality regulations as they pertain to the CEDHSP. The section also describes ambient air quality conditions, including existing pollutant concentrations, meteorology, and general locations of sensitive receptors in the local air quality study area. It describes the air quality impacts, if any, that would result from build-out of the CEDHSP and provides feasible mitigation for significant impacts where possible. Impacts related to GHGs are described in Section 3.6, *Greenhouse Gas Emissions*.

### 3.2.1 Existing Conditions

#### 3.2.1.1 Regulatory Setting

The agencies of direct importance to the proposed project for air quality are the U.S. Environmental Protection Agency (USEPA), CARB, and EDCAQMD. USEPA has established federal air quality standards for which CARB and EDCAQMD have primary implementation responsibility. CARB and EDCAQMD are also responsible for ensuring that state air quality standards are met.

#### **Federal Regulations**

##### **Clean Air Act and National Ambient Air Quality Standards**

The federal Clean Air Act (CAA) was first enacted in 1963 and has been amended numerous times in subsequent years (1965, 1967, 1970, 1977, and 1990). The CAA establishes federal air quality standards, known as *national ambient air quality standards* (NAAQS), and specifies future dates for achieving compliance. The CAA also mandates that the state submit and implement a State Implementation Plan (SIP) for local areas not meeting those standards. The plans must include pollution-control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA identify specific emission-reduction goals for areas not meeting the NAAQS. These amendments require both a demonstration of reasonable further progress toward attainment and incorporation of additional sanctions for failure to attain or meet interim milestones. Table 3.2-1 shows the NAAQS currently in effect for each criteria pollutant. The California ambient air quality standards (CAAQS) (described below) are also provided for reference.

**Table 3.2-1. National and State Ambient Air Quality Standards**

Criteria Pollutant	Average Time	California Standards	National Standards <sup>a</sup>	
			Primary	Secondary
Ozone	1-hour	0.09 ppm*	None <sup>b</sup>	None <sup>b</sup>
	8-hour	0.070 ppm	0.070 ppm <sup>c</sup>	0.070 ppm <sup>c</sup>
Particulate matter (PM <sub>10</sub> )	24-hour	50 µg/m <sup>3</sup> **	150 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>
	Annual mean	20 µg/m <sup>3</sup>	None	None
Fine particulate matter (PM <sub>2.5</sub> )	24-hour	None	35 µg/m <sup>3</sup>	35 µg/m <sup>3</sup>
	Annual mean	12 µg/m <sup>3</sup>	12.0 µg/m <sup>3</sup>	15.0 µg/m <sup>3</sup>
Carbon monoxide	8-hour	9.0 ppm	9 ppm	None
	1-hour	20 ppm	35 ppm	None
	8-hour (Lake Tahoe)	6 ppm	None	None
Nitrogen dioxide	Annual mean	0.030 ppm	0.053 ppm	0.053 ppm
	1-hour	0.18 ppm	0.100 ppm	None
Sulfur dioxide <sup>d</sup>	Annual mean	None	0.030 ppm	None
	24-hour	0.04 ppm	0.14 ppm	None
	3-hour	None	None	0.5 ppm
	1-hour	0.25 ppm	0.075 ppm	None
Lead	30-day average	1.5 µg/m <sup>3</sup>	None	None
	Calendar quarter	None	1.5 µg/m <sup>3</sup>	1.5 µg/m <sup>3</sup>
	3-month average	None	0.15 µg/m <sup>3</sup>	0.15 µg/m <sup>3</sup>
Sulfates	24-hour	25 µg/m <sup>3</sup>	None	None
Visibility reducing particles	8-hour	- <sup>e</sup>	None	None
Hydrogen sulfide	1-hour	0.03 ppm	None	None
Vinyl chloride	24-hour	0.01 ppm	None	None

Source: CARB 2016a.

<sup>a</sup> National standards are divided into primary and secondary standards. Primary standards are intended to protect public health, whereas secondary standards are intended to protect public welfare and the environment.

<sup>b</sup> The federal 1-hour standard of 12 parts per hundred million was in effect from 1979 through June 15, 2005. The revoked standard is referenced because it was employed for such a long period and is a benchmark for State Implementation Plans.

<sup>c</sup> The federal 8-hour standard of 75 parts per billion was lowered to 70 parts per billion on October 1, 2015.

<sup>d</sup> The annual and 24-hour national ambient air quality standards for sulfur dioxide only apply for 1 year after designation of the new 1-hour standard to those areas that were previously nonattainment for 24-hour and annual National Ambient Air Quality Standards.

<sup>e</sup> The California ambient air quality standards for visibility-reducing particles is defined by an extinction coefficient of 0.23 per kilometer: visibility of 10 miles or more due to particles when relative humidity is less than 70%.

\* ppm = parts per million.

\*\* µg/m<sup>3</sup> = micrograms per cubic meter.

## Nonroad Diesel Rule

USEPA established a series of increasingly strict emission standards for new off-road diesel equipment, on-road diesel trucks, and harbor craft. New construction equipment used to implement the proposed project, including heavy-duty trucks and off-road construction equipment, will be required to comply with the emission standards.

## Vehicle Emission Standards

The National Highway Traffic Safety Administration (NHTSA) and USEPA set corporate average fuel economy (CAFE) standards for passenger cars and light trucks (collectively, light-duty vehicles) and separately sets fuel consumption standards for medium- and heavy-duty trucks and engines. CAFE standards require an industry-wide fleet average of approximately 49 miles per gallon for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8 percent annually for model years 2024 and 2025, and 10 percent annually for model year 2026. Phase 2 of the *Greenhouse Gas Emissions Standards and Fuel Efficiency Standards for Medium- and Heavy-Duty Engines and Vehicles* applies to medium- and heavy-duty vehicle model years 2019 through 2027.

On April 12, 2023, USEPA proposed two new federal vehicle standards that will build on the existing CAFE and Phase 2 standards. The *Multi-Pollutant Emissions Standards for Model Years 2027 and Later Light-Duty and Medium Duty Vehicles* proposes more stringent emission standards for light-duty and medium-duty vehicles for model years 2027 through 2032 and accelerates the deployment of electric and clean vehicles. The *Greenhouse Gas Standards for Heavy-Duty Vehicles—Phase 3* establishes fleet mix performance standards for vocational vehicles (e.g., delivery trucks) and trucks typically used to haul freight.

## Radon Action Level

There are no current state or federal regulations related to permissible exposure levels for radon. However, USEPA has recommended an indoor action level for radon exposure, which is 4 picocurie<sup>1</sup> per liter (pCi/L). In existing homes with radon levels of more than 4 pCi/L, USEPA recommends taking corrective measures to reduce exposure to radon gas. Although USEPA has developed an action level of 4 Ci/L for radon exposure, there is no known safe level of exposure to radon (USEPA 2014).

## State Regulations

### California Clean Air Act and California Ambient Air Quality Standards

In 1988, the state legislature adopted the California Clean Air Act (CCAA), which established a statewide air pollution control program. CCAA requires all air districts in the state to endeavor to meet the CAAQS by the earliest practical date. Unlike the federal CAA, the CCAA does not set precise attainment deadlines. Instead, the CCAA establishes increasingly stringent requirements for areas that will require more time to achieve the standards. CAAQS are generally more stringent than the NAAQS and incorporate additional standards for sulfates (SO<sub>4</sub>), hydrogen sulfide (H<sub>2</sub>S), vinyl chloride (C<sub>2</sub>H<sub>3</sub>Cl), and visibility-reducing particles. The CAAQS and NAAQS are listed together in Table 3.2-1.

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<sup>1</sup> A *picocurie* (pCi) is a measure of the rate of radium decay, or radiation. Radium decays at a rate of about 2.2 trillion disintegrations (2.2x10<sup>12</sup>) per minute. Thus, a picocurie represents 2.2 disintegrations per minute.

CARB and local air districts bear responsibility for achieving California’s air quality standards, which are to be achieved through district-level air quality management plans that would be incorporated into the SIP. In California, USEPA has delegated authority to prepare SIPs to CARB, which, in turn, has delegated that authority to individual air districts. CARB traditionally has established state air quality standards, maintaining oversight authority in air quality planning, developing programs for reducing emissions from motor vehicles, developing air emission inventories, collecting air quality and meteorological data, and approving SIPs.

The CCAA substantially adds to the authority and responsibilities of air districts. The CCAA designates air districts as lead air quality planning agencies, requires air districts to prepare air quality plans, and grants air districts authority to implement transportation control measures. The CCAA also emphasizes the control of “indirect and area-wide sources” of air pollutant emissions. The CCAA gives local air pollution control districts explicit authority to regulate indirect sources of air pollution and to establish traffic control measures.

### **Vehicle Efficiency and Zero-Emissions Standards**

AB 1493 (Pavley I) required CARB to develop and implement regulations to reduce automobile and light-truck GHG emissions. These stricter emissions standards were designed to apply to automobiles and light trucks beginning with model year 2009. In 2012, additional strengthening of the Pavley standards (referred to as the Advanced Clean Cars measure) was adopted for vehicle model years 2017 through 2025. Together, the two standards are expected to increase average fuel economy to roughly 54.5 miles per gallon in 2025.

In August 2022, CARB Board members voted to approve the Advanced Clean Cars II proposal, which will dramatically reduce emissions from passenger cars for model years 2026 through 2035. This requires an increasing proportion of new vehicles to be zero-emission vehicles, with the goal of 100 percent zero-emission vehicles for new vehicles sold by 2035.

CARB also adopted the Advanced Clean Truck Regulation to accelerate a large-scale transition of zero-emission medium- and heavy-duty vehicles. The regulation requires the sale of zero-emission medium- and heavy-duty vehicles as an increasing percentage of total annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales would need to be 55 percent of Class 2b and 3 truck sales, 75 percent of Class 4 through 8 straight truck sales, and 40 percent of truck tractor sales. By 2045, every new medium- and heavy-duty truck sold in California will be zero-emission. Large employers, including retailers, manufacturers, brokers, and others, are required to report information about shipments and shuttle services to better ensure that fleets purchase available zero-emission trucks.

### **Carl Moyer Program Air Quality Standards Attainment Program**

The Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) is a voluntary program that offers grants to owners of heavy-duty vehicles and equipment. The program is a partnership between CARB and the local air districts throughout the state to reduce air-pollution emissions from heavy-duty engines. Locally, the air districts administer the Carl Moyer Program.

### **Toxic Air Contaminant Regulation**

California regulates toxic air contaminants (TACs) primarily through the Toxic Air Contaminant Identification and Control Act (Tanner Act) and the Air Toxics “Hot Spots” Information and Assessment Act of 1987 (Hot Spots Act). In the early 1980s, CARB established a statewide

comprehensive air toxics program to reduce exposure to air toxics. The Tanner Act created California's program to reduce exposure to air toxics. The Hot Spots Act supplements the Tanner Act by requiring a statewide air toxics inventory, notification of people exposed to a significant health risk, and facility plans to reduce these risks.

CARB has identified diesel particulate matter (DPM) as a TAC and approved a comprehensive Diesel Risk Reduction Plan to reduce emissions from both new and existing diesel-fueled engines and vehicles. The plan identifies 14 measures that target new and existing on-road vehicles (e.g., heavy-duty trucks and buses), off-road equipment (e.g., graders, tractors, forklifts, sweepers, boats), portable equipment (e.g., pumps), and stationary engines (e.g., stand-by power generators). The Tanner Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB designates a substance as a TAC. To date, CARB has identified 21 TACs and has also adopted the USEPA's list of hazardous air pollutants (HAPs) as TACs.

## Local Regulations

### El Dorado County General Plan

The *Public Health, Safety, and Noise Element* of the *El Dorado County General Plan* (General Plan) (El Dorado County 2004) includes the following goals, objectives, and policies regarding air quality. The full text of these goals, objectives, and policies can be found in Appendix B of the Draft EIR, which provides an analysis of the proposed project's consistency with County General Plan policies as required under State CEQA Guidelines Section 15125.

- **Goal 6.7, Air Quality Maintenance**, strives to achieve and maintain ambient air quality standards that USEPA and CARB established and minimize public exposure to toxic or hazardous air pollutants and air pollutants that create unpleasant odors. This goal includes the following Objectives.
  - **Objective 6.7.2, Vehicular Emissions**, and implementing Policy 6.7.2.5, which encourages use of and facilities for alternative-fuel vehicles, including low-emission vehicles used in construction.
  - **Objective 6.7.4, Project Design and Mixed Uses**, and implementing Policies 6.7.4.1, 6.7.4.2, and 6.7.4.4, which encourage project design that protects air quality and minimizes direct and indirect emissions of air contaminants.
  - **Objective 6.7.6, Air Pollution-Sensitive Land Uses**, and implementing Policies 6.7.6.1 and 6.7.6.2, which direct that air pollution sensitive land uses be separated by significant sources of air pollution.
  - **Objective 6.7.7, Construction-Related, Short-Term Emissions**, and implementing Policy 6.7.7.1, which requires that short-term construction, long-term operations, and toxic and odor-related impacts be evaluated in accordance with EDCAQMD CEQA Guidelines and feasible mitigation developed for such impacts.

In addition, the *Public Health, Safety, and Noise Element* includes the following goal that addresses naturally occurring asbestos (NOA).



- **Goal 6.3, *Geologic and Seismic Hazards***, addresses minimizing threats to life and property from geologic hazards, such as NOA, through evaluation of NOA hazards and includes Objective 6.3.1, *Building and Site Standards*, and implementing Policies 6.3.1.1, 6.3.1.2, and 6.3.3.3.
  - **Policy 6.3.1.1** requires that all discretionary projects and all projects requiring a grading permit, or a building permit that would result in earth disturbance, that are located in areas likely to contain NOA retain a California-registered geologist knowledgeable about asbestos-containing formations to inspect the project area for the presence of asbestos using appropriate test methods.

### **El Dorado County Code**

The following code addresses NOA.

- **Chapter 8.44 of the County Code**, including Sections 8.44.030 (General Requirements for Grading, Excavation and Construction Activities), 8.44.050 (General Procedures for Abatement and Penalties), and 8.44.060 (Real Estate Transfer Disclosure). The requirements and enforcement that these codes provide would apply to the proposed project and the mitigation adopted herein.

### **El Dorado County Air Quality Management District**

At the local level, responsibilities of air quality districts include overseeing stationary-source emissions, approving permits, maintaining emissions inventories, maintaining air quality stations, overseeing agricultural burning permits, and reviewing air quality-related sections of environmental documents required by CEQA. The air quality districts are also responsible for establishing and enforcing local air quality rules and regulations that address the requirements of federal and state air quality laws and ensuring that NAAQS and CAAQS are met.

The proposed project falls under the jurisdiction of EDCAQMD, which has local air quality jurisdiction over projects in El Dorado County. EDCAQMD has adopted advisory emission thresholds to assist CEQA lead agencies in determining the level of significance of a project's emissions, which are outlined in its *Determining Significance of Air Quality Impacts under the California Environmental Quality Act (CEQA Guidelines)* (EDCAQMD 2002). EDCAQMD has also adopted the *Sacramento Regional 2008 8-Hour Ozone Attainment and Reasonable Further Progress Plan (2017 Ozone Plan)* (EDCAQMD et al. 2017). Air districts within the Sacramento Federal Nonattainment Area (SFNA) developed the 2017 Ozone Plan,<sup>2</sup> which outlines how the region continues to meet federal progress requirements and demonstrates that the SFNA will meet the 75 parts per billion (ppb) 8-hour ozone NAAQS.<sup>3</sup>

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<sup>2</sup> The SFNA includes Sacramento and Yolo counties, the western portion of El Dorado and Placer counties, the southern portion of Sutter County, and the northeastern portion of Solano County. Air districts in SFNA consist of the Sacramento Metropolitan Air Quality Management District (SMAQMD) and Yolo-Solano Air Quality Management District, as well as parts of EDCAQMD, Placer County Air Pollution Control District, and Feather River Air Quality Management District.

<sup>3</sup> As noted in Table 3.2-1, USEPA lowered the federal 8-hour standard of 75 ppb to 70 ppb on October 1, 2015. Air districts in SFNA released the *Draft Sacramento Regional 2015 National Ambient Air Quality Standard 8-Hour Ozone Attainment and Reasonable Further Progress Plan* in August 2023. This plan shows how SFNA will achieve the 70-ppb standard by the attainment date of August 2033. The plan is a draft as of the writing of this Third Recirculated DEIR because CARB and USEPA have not yet approved the plan.

In addition to air quality plans, EDCAQMD also adopts rules and regulations to improve existing and future air quality. The following rules are most pertinent to the proposed project.

- **Rule 202, *Visible Emissions*.** Limits emissions that are darker in shade than No. 1 on the Ringelmann Chart, or of such opacity as to obscure an observer's view to a degree equal to or greater than smoke.
- **Rule 205, *Nuisance*.** Prohibits discharge of air contaminants or other material that 1) cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; 2) endanger the comfort, repose, health, or safety of any such persons or the public; or 3) cause, or have a natural tendency to cause, injury, or damage to business or property.
- **Rule 207, *Particulate Matter*.** Limits particulate matter (PM) emissions in excess of 0.1 grains per cubic foot of dry exhaust gas.
- **Rule 215, *Architectural Coatings*.** Specifies volatile organic compound (VOC) content limits for architectural coatings applied within El Dorado County.
- **Rule 223-1, *Fugitive Dust*.** Limits fugitive-dust emissions from construction and construction-related activities. The rule requires submission of a detailed Fugitive Dust-Control Plan to EDCAQMD prior to the start of any construction activity for which El Dorado County issued a grading permit.
- **Rule 223-2, *Asbestos Hazard Mitigation*.** Requires that an Asbestos Dust Mitigation Plan must be prepared, submitted, approved, and implemented when more than 20 cubic yards of earth will be moved at all sites identified as being in Asbestos Review Areas, as shown on the EDCAQMD's *El Dorado County Naturally Occurring Asbestos Review Map*.
- **Rule 224, *Cutback Asphalt Paving Material*.** Specifies VOC content limits for cutback asphalt.
- **Rule 233, *Stationary Internal Combustion Engines*.** Limits nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) emissions from stationary internal-combustion engines.

### 3.2.1.2 Environmental Setting

Climatological conditions, topography, and the types and amounts of pollutants emitted all affect ambient air quality. The following sections summarize how air pollution moves through the air, water, and soil within the air basin and how it is chemically changed in the presence of other chemicals and particles. This section also summarizes local climate conditions, existing air quality conditions, and sensitive receptors that project-generated emissions may affect.

#### Regional Climate and Meteorology

The primary factors that contribute to overall air quality are the locations of air-pollutant sources and the amount of pollutants emitted from those sources. Meteorological conditions and topography are also important contributing factors. Atmospheric conditions, such as wind speed, wind direction, and air temperature gradients, interact with the physical features of the landscape to direct the movement and dispersal of air pollutants.

California is divided into 15 air basins based on geographic features that create distinctive regional climates. The proposed project's air quality study area is in the MCAB, which lies along the northern Sierra Nevada, close to or contiguous with the California–Nevada state line, and covers roughly 11,000 square miles. Elevations range from over 10,000 feet at the Sierra Nevada crest down to

several hundred feet above sea level at the Sacramento County boundary. Throughout the County, the topography is highly variable and includes rugged mountain peaks and valleys with extreme slopes and altitude differences in the Sierra Nevada and rolling foothills to the west. The western slope of El Dorado County, from the Tahoe Basin rim on the east to the Sacramento County boundary on the west, lies within the MCAB.

The general climate of the MCAB varies considerably with elevation and proximity to the Sierra Nevada crest. The MCAB's terrain features enable various climates to occur in relatively close proximity. The pattern of mountains and hills causes a wide variation in rainfall, temperature, and localized winds throughout the MCAB. Temperature variations have an important influence on basin wind flow, dispersion along mountain ridges, vertical mixing, and photochemistry.

The Sierra Nevada receives large amounts of precipitation from storms moving in from the Pacific Ocean in the winter, with lighter amounts from intermittent monsoonal moisture flows from the south and cumulus buildup during the summer. Precipitation levels are high in the highest mountain elevations but decline rapidly toward the western portion of the basin. Winter temperatures in the mountains can be below freezing for weeks at a time, and substantial depths of snow can accumulate. In the western foothills, however, winter temperatures usually dip below freezing only at night, and precipitation is mixed as rain or light snow. In the summer, temperatures in the mountains are mild, with daytime peaks in the 70s to low 80 degrees Fahrenheit (°F), but the lower elevations in western portions of the county can routinely exceed 100°F.

The topography and meteorology of the MCAB combine such that local conditions predominate in directing the effect of emissions in the basin. The mountains and hills affect regional airflows by hindering dispersion, directing surface air flows, causing shallow vertical mixing, and creating areas of high pollutant concentrations. Inversion layers (where warm air overlays cooler air) frequently form and trap pollutants close to the ground. In the winter, these conditions can lead to elevated CO concentrations, known as *hot spots*, along heavily traveled roads and at busy intersections.

During longer daylight hours in summer, stagnant air, high temperatures, and plentiful sunshine provide the conditions and energy for the photochemical reaction between reactive organic compounds (ROG) and NO<sub>x</sub> (i.e., ozone precursors) that results in the formation of ozone. In the summer, the strong upwind valley air flowing into the basin from the Central Valley to the west is an effective transport medium for ozone precursors and ozone generated in the San Francisco Bay Area and the Sacramento and San Joaquin valleys to flow into the MCAB. These transported pollutants are the predominate cause of ozone in the MCAB and are largely responsible for exceedances of the federal and state ozone standards in the MCAB. CARB has officially designated the MCAB as "ozone impacted" by transport from those areas (Title 17 California Code of Regulations [CCR] § 70500).

### **Criteria Pollutants of Concern**

As discussed above, the federal and state governments have established NAAQS and CAAQS, respectively, for six criteria pollutants: ozone, CO, lead (Pb), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), and PM, which consists of PM 10 microns in diameter or less (PM10) and PM 2.5 microns in diameter or less (PM2.5). Ozone is considered a regional pollutant because its precursors combine to affect air quality on a regional scale. Pollutants such as CO, NO<sub>2</sub>, SO<sub>2</sub>, and Pb are considered local pollutants that tend to accumulate in the air locally. PM is both a local and a regional pollutant. The primary criteria pollutants of concern that would be generated by the CEDHSP are ozone precursors

(ROG and NO<sub>x</sub>), CO, and PM.<sup>4, 5</sup> Principal characteristics surrounding these pollutants are described below.

All criteria pollutants can result in human health and environmental effects at certain concentrations. The ambient air quality standards for these pollutants (Table 3.2-1) have been established to protect public health and the environment within an adequate margin of safety (CAA § 109). Epidemiological, controlled human exposure, and toxicology studies evaluate potential health and environmental effects of criteria pollutants and form the scientific basis for new and revised ambient air quality standards.

Principal characteristics and possible health and environmental effects from exposure to the primary criteria pollutants the proposed project may generate are discussed below.

### **Ozone**

Ozone, or smog, is photochemical oxidant formed when ROGs and NO<sub>x</sub> (both by-products of the internal-combustion engine) react with sunlight. ROGs are compounds primarily composed of hydrogen and carbon atoms. Internal combustion associated with motor vehicle usage is the major source of hydrocarbons. Other sources of ROGs include emissions associated with the use of paints and solvents, the application of asphalt paving, and the use of household consumer products, such as aerosols. The two major forms of NO<sub>x</sub> are nitric oxide (NO) and NO<sub>2</sub>. NO is a colorless, odorless gas formed from atmospheric nitrogen and oxygen when combustion occurs under high temperatures and/or high pressure. NO<sub>2</sub> is an irritating, reddish-brown gas formed by the combination of NO and oxygen. In addition to serving as an integral participant in ozone formation, NO<sub>x</sub> also directly acts as an acute respiratory irritant and increases susceptibility to respiratory pathogens by causing impairments to the immune system.

Ozone poses a higher risk to those who already suffer from respiratory diseases (e.g., asthma), children, older adults, and people who are active outdoors. Exposure to ozone at certain concentrations can make breathing more difficult, cause shortness of breath and coughing, inflame and damage the airways, aggregate lung diseases, increase the frequency of asthma attacks, and cause chronic obstructive pulmonary disease. Studies show associations between short-term ozone exposure and non-accidental mortality, including deaths from respiratory issues. Studies also suggest that long-term exposure to ozone may increase the risk of respiratory-related deaths (USEPA 2018a). The concentration of ozone at which health effects are observed depends on an individual's sensitivity, level of exertion (i.e., breathing rate), and duration of exposure. Studies show large individual differences in the intensity of symptomatic responses, with one study finding no symptoms to the least responsive individual after a 2-hour exposure to 400 ppb of ozone and a 50-percent decrement in forced airway volume in the most responsive individual. Although the results vary, evidence suggests that sensitive populations (e.g., asthmatics) may be affected on days when the 8-hour maximum ozone concentration reaches 80 ppb (USEPA 2016).

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<sup>4</sup> As discussed above, there are also ambient air quality standards for SO<sub>2</sub>, Pb, sulfates, hydrogen sulfide, vinyl chloride, and visibility particulates. However, these pollutants are typically associated with industrial sources, which are not included as part of the project. Accordingly, they are not evaluated further.

<sup>5</sup> Most emission of NO<sub>x</sub> are in the form of nitric oxide (Reşitoğlu 2018). Conversion to NO<sub>2</sub> occurs in the atmosphere as pollutants disperse downwind. Accordingly, NO<sub>2</sub> is not considered a local pollutant of concern for the proposed project and is not evaluated further.

In addition to human health effects, ozone has been tied to crop damage, typically in the form of stunted growth, leaf discoloration, cell damage, and premature plant death. Ozone can also act as a corrosive and oxidant, resulting in property damage, such as the degradation of rubber products.

### **Carbon Monoxide**

CO is a colorless, odorless, toxic gas produced by incomplete combustion of carbon substances, such as gasoline or diesel fuel. In the study area, high CO levels are of greatest concern during the winter, when periods of light winds combine with the formation of ground-level temperature inversions from evening through early morning. These conditions trap pollutants near the ground, reducing the dispersion of vehicle emissions. Moreover, motor vehicles exhibit increased CO emission rates at low air temperatures. The primary adverse health effect associated with CO is interference with normal oxygen transfer to the blood, which may result in tissue oxygen deprivation. Exposure to CO at high concentrations can also cause fatigue, headaches, confusion, dizziness, and chest pain. No ecological or environmental effects are associated with ambient CO (CARB 2016b).

### **Particulate Matter**

PM consists of finely divided solids or liquids, such as soot, dust, aerosols, fumes, and mists. Two forms of particulates are currently generally considered: PM10 and PM2.5. Particulate discharge into the atmosphere results primarily from industrial, agricultural, construction, and transportation activities. However, wind on arid landscapes also contributes substantially to local particulate loading.

Particulate pollution can be transported over long distances, and both PM10 and PM2.5 may adversely affect human health, especially for people who are naturally sensitive or susceptible to breathing problems. Numerous studies have linked PM exposure to premature death in people with preexisting heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms. In 2008, CARB estimated that annual PM2.5 emissions for the entire Sacramento metropolitan area<sup>6</sup> causes 90 premature deaths, 20 hospital admissions, 1,200 asthma and lower respiratory symptom cases, 110 acute bronchitis cases, 7,900 lost workdays, and 42,000 minor restricted activity days (SMAQMD 2013). Depending on composition, both PM10 and PM2.5 can also affect water quality and acidity, deplete soil nutrients, damage sensitive forests and crops, affect ecosystem diversity, and contribute to acid rain (USEPA 2018b).

### **Existing Air Quality Conditions**

CARB collects ambient air quality data through a network of air-monitoring stations throughout the state. In El Dorado County, three stations record ozone levels, and one station records PM10 levels. No monitoring stations in the County collect data on PM2.5 or NO2. The closest ozone-monitoring station is the Placerville–Gold Nugget Way station, approximately 14 miles east of the project area. The PM10 monitoring station is in the Lake Tahoe Air Basin (LTAB) portion of El Dorado County. Given the distinct meteorological conditions in the LTAB, which can influence pollutant concentrations, PM10 data from the Sacramento–Branch Center Road monitoring station in Sacramento County,<sup>7</sup> approximately 16 miles west of project area, are used as representative data for the project area. PM2.5 and NO2 data are from the Folsom–Natoma Street station, also in Sacramento County.

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<sup>6</sup> The Sacramento metropolitan area includes Sacramento and Yolo counties and portions of Placer, Solano, and El Dorado counties.

<sup>7</sup> Sacramento County is in the Sacramento Valley Air Basin, which borders the MCAB to the west.

Table 3.2-2 summarizes ozone and PM<sub>10</sub> levels for the last 3 years for which complete data are available (i.e., 2020–2022). As shown in Table 3.2-2, the Placerville–Gold Nugget Way station has experienced frequent violations of the ozone standards. At least 10 violations of the state 24-hour PM<sub>10</sub> standard were recorded at the Sacramento–Branch Center Road station in 2020, 4 violations in 2021, and 1 violation in 2022; 10 violations of the PM<sub>2.5</sub> standard were recorded at the Folsom–Natoma Street station in 2021 and 2 violations in 2022. No violations of the NO<sub>2</sub> standards were recorded at the Folsom–Natoma Street station over the past 3 years. As discussed above, the CAAQS and NAAQS represent concentration limits of criteria air pollutants needed to adequately protect human health and the environment. Existing violations of the ozone and PM ambient air quality standards indicate that certain individuals exposed to this pollutant may experience certain health effects, including increased incidence of acute and chronic cardiovascular and respiratory ailments.

### Attainment Status

Local monitoring data (Table 3.2-2) are used to designate areas as nonattainment, maintenance, attainment, or unclassified for the NAAQS and CAAQS. The four designations are defined as follows.

- **Nonattainment.** Assigned to areas where monitored pollutant concentrations consistently violate the standard in question.
- **Maintenance.** Assigned to areas where monitored pollutant concentrations exceeded the standard in question in the past but are no longer in violation of that standard.
- **Attainment.** Assigned to areas where pollutant concentrations meet the standard in question over a designated period of time.
- **Unclassified.** Assigned to areas where data are insufficient to determine whether a pollutant is violating the standard in question.

**Table 3.2-2. Ambient Criteria Air Pollutant Monitoring Data (2020–2022)**

Pollutant Standards	2020	2021	2022
<b>Ozone (O<sub>3</sub>)</b>			
Maximum 1-hour concentration (ppm)	0.127	0.090	0.062
Maximum 8-hour concentration (ppm)	0.101	0.080	0.056
<i>Number of Days Standard Exceeded<sup>a</sup></i>			
CAAQS 1-hour (>0.09 ppm)	4	0	0
CAAQS 8-hour (>0.070 ppm)	20	10	0
NAAQS 8-hour (>0.075 ppm)	20	10	0
<b>Particulate Matter (PM<sub>10</sub>)<sup>c</sup></b>			
National maximum 24-hour concentration (µg/m <sup>3</sup> ) <sup>b</sup>	201.0	57.0	55.0
National second-highest 24-hour concentration (µg/m <sup>3</sup> ) <sup>b</sup>	109.0	56.0	49.0
State maximum 24-hour concentration (µg/m <sup>3</sup> ) <sup>c</sup>	203.0	58.0	54.0
State second-highest 24-hour concentration (µg/m <sup>3</sup> ) <sup>c</sup>	109.3	56.0	49.0
National annual average concentration (µg/m <sup>3</sup> )	33.2	24.2	21.8
State annual average concentration (µg/m <sup>3</sup> )	–	24.8	22.3
<i>Number of Days Standard Exceeded<sup>a</sup></i>			
NAAQS 24-hour (>150 µg/m <sup>3</sup> )	7	0	0
CAAQS 24-hour (>50 µg/m <sup>3</sup> )	10	4	1

Pollutant Standards	2020	2021	2022
<b>Particulate Matter (PM<sub>2.5</sub>)</b>			
National maximum 24-hour concentration ( $\mu\text{g}/\text{m}^3$ ) <sup>b</sup>	19.6	265.7	73.0
National second-highest 24-hour concentration ( $\mu\text{g}/\text{m}^3$ ) <sup>b</sup>	19.3	133.0	64.2
State maximum 24-hour concentration ( $\mu\text{g}/\text{m}^3$ ) <sup>c</sup>	21.5	265.7	73.5
State second-highest 24-hour concentration ( $\mu\text{g}/\text{m}^3$ ) <sup>c</sup>	19.6	133.0	64.3
National annual average concentration ( $\mu\text{g}/\text{m}^3$ )	-	10.3	6.3
State annual average concentration ( $\mu\text{g}/\text{m}^3$ )	-	9.3	7.3
<i>Number of days standard exceeded<sup>a</sup></i>			
NAAQS 24-hour (>35 mg/m <sup>3</sup> )	0	10	2
<b>Nitrogen Dioxide (NO<sub>2</sub>)</b>			
National maximum 1-hour concentration (ppm) <sup>b</sup>	-	14.0	23.0
State maximum 1-hour concentration (ppm) <sup>c</sup>	-	14	23
State annual average concentration (ppm) <sup>c</sup>	-	13	20
<i>Number of Days Standard Exceeded<sup>a</sup></i>			
NAAQS 1-hour (98th percentile >0.100 ppm)	0	0	0
CAAQS 1-hour (0.18 ppm)	0	0	0

Source: CARB 2023a.

<sup>a</sup> Mathematical estimate of how many days concentrations would have been measured as higher than the level of the standard had each day been monitored. Values have been rounded. An exceedance of a standard is not necessarily a violation because each pollutant has specific criteria on which a violation of the federal and state standards would occur.

<sup>b</sup> National statistics are based on standard conditions data and samplers using federal reference or equivalent methods.

<sup>c</sup> State statistics are based on local conditions data, except in the South Coast Air Basin, for which statistics are based on standard conditions data. In addition, state statistics are based on California-approved samplers.

"-" = data not available;  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter; CAAQS = California Ambient Air Quality Standards; mg/m<sup>3</sup> = milligrams per cubic meter; NAAQS = National Ambient Air Quality Standards; ppm = parts per million.

Table 3.2-3 summarizes the attainment status of the project area with regard to the NAAQS and CAAQS.

**Table 3.2-3. Federal and State Attainment Status for the Project Area**

Criteria Pollutant	Federal Designation	State Designation
O <sub>3</sub> (8-hour)	Serious nonattainment (P) <sup>a</sup>	Nonattainment
CO	Attainment	Unclassified
PM <sub>10</sub>	Attainment	Nonattainment
PM <sub>2.5</sub>	Moderate nonattainment (P)	Unclassified
NO <sub>2</sub>	Attainment	Attainment
SO <sub>2</sub>	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	(No federal standard)	Attainment
Hydrogen Sulfide	(No federal standard)	Unclassified
Visibility-reducing Particles	(No federal standard)	Unclassified

Source: CARB 2023b; USEPA 2023.

<sup>a</sup> (P) Designation applies to the project area portion of El Dorado County.

CO = carbon monoxide; O<sub>3</sub> = ozone; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; NO<sub>2</sub> = nitrogen dioxide; SO<sub>2</sub> = sulfur dioxide.

## Toxic Air Contaminants

Although ambient air quality standards have been established for criteria pollutants, no ambient standards exist for TACs. Many pollutants are identified as TACs because of their potential to increase the risk of developing cancer or because of their acute or chronic health risks. For TACs that are known or suspected carcinogens, CARB has consistently found that there are no levels or thresholds below which exposure is risk-free. Individual TACs vary greatly in the risks they present. At a given level of exposure, one TAC may pose a hazard that is many times greater than another. The California Office of Environmental Health Hazard Assessment identifies TACs and studies their toxicity. The primary TACs of concern associated with the proposed project are DPM and asbestos, both of which are discussed below.

### Diesel Particulate Matter

DPM is generated by diesel-fueled equipment and vehicles. CARB estimates that DPM emissions are responsible for about 70 percent of the total ambient air toxics risk (CARB 2000). Short-term exposure to DPM can cause acute irritation (e.g., eye, throat, bronchial), neurophysiological symptoms (e.g., lightheadedness, nausea), and respiratory symptoms (e.g., cough, phlegm). USEPA (2002) has determined that diesel exhaust is “likely to be carcinogenic to humans by inhalation”.

The closest proposed residential unit in the project area is approximately 250 feet north of U.S. Highway 50 (US 50), which is a heavily traveled roadway and a source of DPM. Based on data from SMAQMD (2023), the existing cancer risk at 250-feet north of US 50, which is the distance to the closest proposed residential land use, is 57 per million. Four gas stations, located on Saratoga Way and Town Center Drive, are sources of TACs.

### Asbestos

*Asbestos* is the name given to a number of naturally occurring fibrous silicate minerals that have mined for applications requiring thermal insulation, chemical and thermal stability, and high tensile strength. Before the adverse health effects of asbestos were identified, it was widely used as insulation and fireproofing in buildings, and asbestos can still be found in some older buildings. It is also found in its natural state in rock or soil (i.e., NOA).

Exposure and disturbance of rock and soil that contain asbestos can result in the release of fibers to the air and consequent exposure to the public. Asbestos can result in a human health hazard when airborne. The inhalation of asbestos fibers into the lungs can result in a variety of adverse health effects, including inflammation of the lungs, respiratory ailments (e.g., asbestosis, which is scarring of lung tissue that results in constricted breathing), and cancer (e.g., lung cancer and mesothelioma, a cancer of the linings of the lungs and abdomen). NOA most commonly occurs in ultramafic rock (i.e., igneous and metamorphic rock with low silica content) that has undergone partial or complete alteration to serpentine rock (or serpentinite) and often contains chrysotile asbestos. Another form of asbestos, tremolite, is associated with ultramafic rock, particularly near geologic faults. Bands of NOA, trending in a north-south direction, occur in western El Dorado County in the general vicinities of Georgetown and El Dorado Hills (California Department of Conservation 2000). Construction activities in ultramafic rock deposits may be a source of asbestos emissions if NOA is present.



As shown in Figure 3.2-1, portions of the proposed project would be located within areas known to contain NOA. Youngdahl Consulting Group completed an assessment of NOA for the Pedregal and Serrano Westside planning areas. Traces (i.e., less than 0.25 percent) of NOA were found in 4 of 11 samples of rock and soil collected from test pits in the Pedregal planning area (Youngdahl Consulting Group 2012a). NOA traces (i.e., less than 0.25 percent) also were identified in 6 of 14 samples of rock and soil collected from the test pits in the Serrano Westside planning area (Youngdahl Consulting Group 2012b).

## Radon

Although not a TAC, nor USEPA-, CARB-, or EDCAQMD-regulated, *radon* is a naturally occurring odorless, tasteless, and invisible radioactive gas formed from the natural decay of uranium in soil, rock, and water. Typical exposure is from inhalation of radon as it moves up through the ground into the air. Radon can seep into homes through cracks in foundations, walls, and joints (CDPH 2014; USEPA n.d.), and it is estimated the average indoor radon concentration in U.S. homes is approximately 1.3 pCi/L of air, whereas the average outdoor radon concentration is 0.4 pCi/L (USEPA 2014). Prolonged human exposure to radon can lead to lung cancer; USEPA estimates that radon is the second leading cause of lung cancer in the United States and results in approximately 21,000 cancer-related deaths each year (USEPA 2012). Radon exposure is the leading cause of lung cancer among nonsmokers (USEPA n.d.).

Radon is found throughout California because it exists in all soil and rock, although certain areas of the state have higher radon levels than others (CDPH 2014). It is estimated that nearly 1 out of every 15 homes in the United States has elevated radon levels (USEPA 2012). Within El Dorado County, most radon potential is found in the Lake Tahoe area (California Geological Survey 2009), although non-Lake Tahoe areas within the County also have elevated tested levels (California Department of Health Services 2010). Although certain areas within the state and county are more likely to contain higher radon levels than others, the California Department of Public Health (CDPH) notes that radon is a house-to-house issue: a house in an area with low radon potential may have elevated radon levels, but a neighboring house could have low radon levels (CDPH 2014).

As discussed above, neither USEPA nor EDCAQMD has established exposure limits for radon, given that background concentrations vary and are highly dependent on household conditions and site-specific geology. Moreover, because radon is most concentrated in the Lake Tahoe portion of the County, exposure in the project area is not anticipated to represent a substantial concern (e.g., the CDPH radon sampling database indicates that out of 31 tests, only three reported concentrations in excess of 4 pCi/L). Accordingly, radon is not discussed further in this analysis.

## Sensitive Receptors

EDCAQMD generally defines *sensitive receptors* as people, or facilities that generally house people (e.g., schools, hospitals, clinics, elderly housing, residences), who may experience adverse effects from unhealthy concentrations of air pollutants. The Serrano Westside planning area is adjacent to existing residential uses to the east (i.e., the Serrano Community). Four schools (i.e., Oak Ridge High School, Rolling Hills Middle School, Silva Valley Elementary School, and Oak Meadow Elementary School) are approximately 0.50 mile to the east. Vintage Grace Church is west of the planning area, near Lassen Lane and El Dorado Hills Boulevard. El Dorado Hills KinderCare is adjacent to the southern Serrano Westside planning area on Saratoga Way. Versante, a private, gated, “elderly-only” retirement community is just off Lassen Lane on Park Drive, which borders El Dorado Hills

Boulevard, and the Ramona “Moni” Gilmore Senior Center is across from the Vintage Grace Church on the corner of El Dorado Hills Boulevard and Lassen Lane.

The Pedregal planning area is adjacent to low-density residential uses (i.e., the existing Ridgeview neighborhood) to the west and three existing multifamily uses (i.e., the Copper Hill Apartments, Sterling Ranch Apartments, and El Dorado Village Apartments) along El Dorado Hills Boulevard to the east. Froggie Frontier Preschool and St. Stephen’s Lutheran Church are adjacent to the northern planning area boundary on Olson Lane.

Table 3.2-4 summarizes sensitive receptors within 1,000 feet of the Serrano Westside and Pedregal planning areas.

**Table 3.2-4. Sensitive Receptors in the Project Vicinity**

Sensitive Receptor	Approximate Distance from Project Area
Froggie Frontier Preschool	400-feet northwest of Pedregal
St. Stephen’s Lutheran Church	600-feet northwest of Pedregal
Residences (single- and multifamily)	25 feet from Pedregal and Serrano Westside (direction varies)
Senior Housing and Care Facilities	300-feet west of Serrano Westside
Vintage Grace Church	300-feet west of Serrano Westside
Lakehills Covenant Church	1,000-feet south of Serrano Westside
Oak Meadow Elementary School	1,300-feet east of Serrano Westside
Silva Valley Elementary School	700-feet east of Serrano Westside
El Dorado County Library	900-feet east of Serrano Westside
Rolling Hills Middle School	1,500-feet northeast of Serrano Westside
Oak Ridge High School	200-feet northeast east of Serrano Westside

## Odors

Although offensive odors rarely cause physical harm, they can be unpleasant and lead to considerable distress among the public, which often generates citizen complaints to local governments and air districts. A project that includes activities that could frequently expose the public to objectionable odors would be deemed as one having a significant impact. According to the EDCAQMD CEQA Guidelines and CARB’s *Air Quality and Land Use Handbook* (CARB 2005), land uses associated with odor complaints typically include sewage-treatment plants, landfills, recycling facilities, and manufacturing processes. The El Dorado Irrigation District’s (EID) El Dorado Hills Wastewater Treatment Plant (WWTP) is approximately 1.20-miles south of the Serrano Westside planning area and 2.20-miles south of the Pedregal planning area. The EDCAQMD has not received any odor complaints (Baughman pers. comm. A), but residents in the nearby Blackstone subdivision previously reported odor complaints to EID and the Central Valley Regional Water Quality Control Board, which is responsible for ensuring that the WWTP implements state permit requirements. Since then, EID has removed the carbon scrubbers from the equalization tanks and replaced them with a bio-trickling filter (i.e., bio-tower), which significantly reduced odors at the facility. EID has also rehabilitated two of the four biofilters and is in the process of rehabilitating the other two. This rehabilitation has included removing and replacing the organic media and screen for each filter to minimize odor generation. (Deason pers. comm.)

## 3.2.2 Environmental Impacts

This section describes the impact analysis related to air quality for the proposed project, describes the methods used to determine the impacts of the proposed project, and lists the thresholds used to conclude whether an impact would be significant. Measures to mitigate (i.e., avoid, minimize, rectify, reduce, eliminate, or compensate for) significant impacts accompany each impact discussion.

### 3.2.2.1 Methods of Analysis

This section was partially based on the Air Quality and Greenhouse Gas Modeling Technical Report for the Central El Dorado Hills Specific Plan (Air Quality and GHG Technical Report) (Ascent 2023), which is provided in Appendix A of this Third Partial Recirculated DEIR. Please refer to the Air Quality and GHG Technical Report for further information on the emissions quantification and analysis method used in this analysis.

#### Construction

Construction of the proposed project would generate emissions of ROG, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> that would temporarily change ambient air quality in the study area. Emissions would originate from mobile and stationary construction-equipment exhaust, employee-vehicle exhaust, dust from land clearing, and application of architectural coatings. Although it is not possible to develop a refined construction inventory without specific project-level details,<sup>8</sup> criteria pollutant emissions from construction of development that would be supported by the proposed project were estimated using the California Emissions Estimator Model (CalEEMod), version 2020.4.0, and Sacramento Metropolitan Air Quality Management District's (SMAQMD) Roadway Construction Emissions Model (RCEM), version 9.0.0.

Modeling inputs included project-specific land use types and sizes and construction phasing, timing, and activities included in Chapter 2, *Project Description*, and summarized in the Air Quality and GHG Technical Report (Appendix A). Model defaults for all other assumptions were used for construction emissions modeling. Buildout of the proposed project was assumed to occur over an extended period, beginning in 2023, with full buildout anticipated around 2040.

Although mass emissions generated during construction of the proposed project have been estimated, the potential for construction DPM emissions to expose sensitive receptors to substantial health risks was evaluated qualitatively based on the types of DPM-generating equipment (e.g., heavy-duty equipment) expected during project construction. Accurately quantifying DPM concentrations and predicting associated health risks (e.g., excess cancer cases) requires detailed, site-specific information about the locations of specific construction activity. Given the preliminary level of design available at this time, the inventory of construction-generated DPM was prepared based on generalized project information and model defaults. Specific details about the timing and locations of individual equipment and vehicles are currently unavailable, and, as such, a quantitative health-risk assessment was not possible.

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<sup>8</sup> Project-level information includes details such as the size and scale of the project to be constructed, construction schedule, equipment fleet, construction worker-crew estimates, and demolition and grading quantities.

## Operation

Operation of the proposed project would generate emissions of ROG, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> that could result in long-term changes to ambient air quality. Three types of air pollutant sources are expected during occupancy of the CEDHSP: mobile, area, and energy. *Mobile sources* are sources of emissions from motor-vehicle trips associated with the future land uses. *Area sources* include emissions from landscaping activities, consumer products (e.g., personal care products), and periodic paint and architectural coatings emissions from facility upkeep. *Energy-source* emissions originate from natural-gas combustion utilized for heating and cooking requirements.

Operational emissions were estimated with CalEEMod, version 2020.4.0, using a combination of project-specific information and model defaults. Modeling inputs included land use types, sizes, and other project details (e.g., vehicle miles traveled [VMT]), as described in the Air Quality and GHG Technical Report (Appendix A). Modeling was conducted under the assumption that project operations would start in 2027 and reach full buildout around 2040.

1. The analysis of localized CO impacts was conducted using the CARB's EMFAC2021 model, CALINE4 dispersion model, and evening peak-hour traffic data in the transportation impact assessment (Appendix L in the Second Partial Recirculated DEIR). Buildout traffic conditions were modeled to evaluate CO hot-spot concentrations at four study-area intersections. Receptors were placed 9.8 feet from the traveled way at each intersection corner. A standard receptor elevation of 5.9 feet was used, consistent with CO-protocol guidance (Garza et al. 1997). Worst-case wind angles and meteorological conditions were modeled to estimate conservative CO concentrations at each receptor. Pursuant to consultation with EDCAQMD staff, CO concentrations from EDCAQMD's 2002 *Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDCAQMD CEQA Guidelines) were used to define background CO levels because no monitoring stations in El Dorado County collect CO data (Baughman pers. comm. B).
2. The potential for operational DPM emissions to expose sensitive receptors to substantial health risks was evaluated qualitatively based on the types of DPM-generating equipment expected to be used during project operations. Future resident exposure to ambient risks was evaluated through an analysis of nearby highway sources. SMAQMD's risk-mapping tool (2023), which is part of its Mobile Source Air Toxics Protocol, was used to evaluate cancer risk from US 50. The analysis assumed that the nearest residential receptor to US 50 would be approximately 400 feet from the traveled way. Because the risk-mapping tool only includes data for Sacramento County, values 400-feet north of US 50, at the Sacramento–El Dorado County line, were selected. Given the close proximity of the county line to the El Dorado Hills Blvd interchange, the corresponding health risks at this location are likely representative of those at the project site. No existing rail sources are within 1,000 feet of the CEDHSP.

## Other Air Quality Considerations Disclosed for Informational Purposes

The California Supreme Court's holding in *California Building Industry Assoc. v. Bay Area Air Quality Management District* (2015) 62 Cal.4th 369 (CBIA v. BAAQMD) clarified the reduced scope of what is an environmental impact under CEQA. The California Building Industry Association challenged the Bay Area Air Quality Management District's (BAAQMD) adoption of new CEQA guidance, including thresholds for determining whether a project's exposure to existing levels of TACs would result in a significant impact. The California Supreme Court's review of the case focused on whether CEQA requires "an analysis of how existing environmental conditions will impact future residents or users

(receptors) of a proposed project.” After reviewing the CEQA statute and State CEQA Guidelines Section 15126.2(a), the California Supreme Court concluded that “CEQA generally does not require an analysis of how existing environmental conditions will impact a project’s future users or residents.”

The California Supreme Court did not exclude all consideration of existing conditions from CEQA. An agency must “evaluate existing conditions in order to assess whether a project could exacerbate hazards that are already present.” In addition, in a footnote, the California Supreme Court explained that CEQA does not prohibit an agency from considering, as part of an environmental review, how existing conditions might affect a project’s future users or residents. However, the California Supreme Court stopped short of suggesting that the agency should determine the significance of such impacts and require mitigation. In light of the California Supreme Court’s decision, existing air quality conditions that would not be exacerbated by the proposed project are not subject to CEQA analysis.

With respect to the CEDHSP environmental analysis, these considerations include future resident exposure to existing radon. As discussed in Section 3.2.1.2, *Environmental Setting*, radon is found throughout California because it exists in all soil and rock. Certain areas, such as the Lake Tahoe area, have higher radon levels than others. Radon is a naturally occurring substance. Outdoors, radon disperses rapidly and is generally not a health concern (USEPA 2022). Most radon exposure occurs indoors when radon enters and concentrates in homes through cracks or other holes in the foundation. The proposed project would not introduce additional material or exacerbate potential public exposure to increased indoor radon levels. Accordingly, exposure to radon is not subject to CEQA analysis under the California Supreme Court’s holding in *CBIA v. BAAQMD*, and no mitigation is required. Nevertheless, it should be noted that, because radon is most concentrated in the Lake Tahoe portion of El Dorado County, exposure in the project area is not anticipated to represent a substantial concern. For example, the CDPH radon-sampling database indicates that, out of 31 tests, only three reported concentrations in excess of 4 pCi/L.

### **Correlation of Criteria Pollutants to Potential Human Health Consequences**

The California Supreme Court’s decision in *Sierra Club v. County of Fresno* (6 Cal. 5<sup>th</sup> 502) (hereafter referred to as the *Friant Ranch Decision*) reviewed the long-term regional air quality analysis contained in the EIR for the proposed *Community Plan Update* and *Friant Ranch Specific Plan* (Friant Ranch Project). The Friant Ranch Project is a 942-acre master-plan development in unincorporated Fresno County within the San Joaquin Valley Air Basin, which is currently in nonattainment under the NAAQS and CAAQS for ozone and PM<sub>2.5</sub>. The California Supreme Court found that the EIR’s air quality analysis was inadequate because it failed to provide enough detail “for the public to translate the bare [criteria pollutant emissions] numbers provided into adverse health impacts or to understand why such a translation is not possible at this time.” The California Supreme Court’s decision clarified that environmental documents must attempt to connect a project’s regional air quality impacts to specific health effects or explain why it is not technically feasible to perform such an analysis.

Potential health effects associated with construction and operational criteria pollutants the CEDHSP could generate were estimated using SMAQMD’s *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District* (Friant Ranch Guidance) (Ramboll 2020). The Friant Ranch Guidance provides two Microsoft Excel calculators that were developed from photochemical and health-effects modeling of hypothetical projects throughout the SFNA. The Friant Minor Project

Health Screening Tool provides insights on the health effects that may result from projects emitting NO<sub>x</sub>, ROG, and PM<sub>2.5</sub> at levels at or below 82-pounds per day, which corresponds to the highest daily emissions threshold of all SFNA air districts. The Strategic Area Project Health Screening Tool estimates health effects that may result from projects emitting NO<sub>x</sub>, ROG, and PM<sub>2.5</sub> at levels between 164- and 656-pounds per day and located within one of five strategic growth areas.

Importantly, outputs from SMAQMD's tools only include health effects of NO<sub>x</sub>, ROG, and PM<sub>2.5</sub> that have been researched sufficiently to be quantifiable (Ramboll 2020). These include the following health endpoints.

- Mortality (from all causes)
- Hospital admissions (i.e., respiratory, asthma, cardiovascular)
- Emergency room visits (i.e., asthma/respiratory)
- Acute myocardial infarction (i.e., heart attack, nonfatal)
- As noted in SMAQMD's guidance, research has identified other health effects for both PM<sub>2.5</sub> and ozone precursors (i.e., ROG and NO<sub>x</sub>) (Ramboll 2020). For example, exposure to PM<sub>2.5</sub> at certain concentrations can: alter metabolism, leading to weight gain and diabetes; cause cognitive decline, brain inflammation, or reduced brain volume; and affect gestation, resulting in low birthweight or preterm birth (Ramboll 2020). Likewise, at high enough doses, exposure to ozone can increase lung permeability, increasing susceptibility to toxins and microorganisms (Ramboll 2020). These and other effects (refer to Section 3.2.1.2, *Environmental Setting*) have been documented, but a quantitative correlation to project-generated emissions cannot be accurately established based on published studies (Ramboll 2020). Accordingly, these *potential* health effects of project-generated air pollution are qualitatively documented and disclosed.

### 3.2.2.2 Thresholds of Significance

Based on State CEQA Guidelines Appendix G, the proposed project would be considered to have a significant effect if it would result in any of the conditions listed below.

1. Conflict with or obstruct implementation of the applicable air quality plan.
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard.
3. Expose sensitive receptors to substantial criteria pollutant concentrations.
4. Result in other emissions (such as those leading to odors) that adversely affect a substantial number of people.

#### Local Air District Thresholds

According to the State CEQA Guidelines Section 15064.7, the significance criteria that the applicable air quality management or air pollution control district establishes may be relied on to make significance determinations for potential impacts on environmental resources. As described above, EDCAQMD is responsible for ensuring that federal and state ambient air quality standards are not violated within El Dorado County and has developed its own thresholds of significance to evaluate both construction and operational impacts (EDCAQMD 2002). The following section summarizes the local air district thresholds, presents sustainable evidence regarding the basis on which the

thresholds were developed, and describes how they were used to determine whether project construction and operational emissions would result in the following.

- Interfere or impede with attainment of federal or state ambient air quality standards (NAAQS and CAAQS, respectively).
- Cause increased risk to human health.

### **Attainment of Federal and State Ambient Air Quality Standards**

As described in Section 3.2.1, *Existing Conditions*, the western portion of El Dorado County is in the SFNA for ozone. EDCAQMD has adopted ozone-precursor (i.e., ROG and NO<sub>x</sub>) thresholds to assist the Sacramento area in reaching attainment status with the federal and state ozone standards. The thresholds, which are described below for both construction and operations, represent levels above which project-generated emissions could affect EDCAQMD's commitment to attain ozone standards in the Sacramento Region (EDCAQMD 2002). Similarly, thresholds for construction-generated fugitive dust and operations-generated CO and PM<sub>10</sub>, which are the CAAQS, have been adopted to identify projects that could make a substantial contribution to an existing violation of the applicable CAAQS.

Adopted ozone thresholds for construction and operational emissions are described below, as well as thresholds for construction-generated fugitive dust and operations-generated CO and PM<sub>10</sub>.

#### ***Construction-Generated Regional Ozone Precursors<sup>9</sup>***

In 2002, EDCAQMD adopted a fuel-based screening threshold for criteria pollutant emissions, where projects with equipment (1996 engine year or newer) that consume less than 402 gallons of fuel per day are considered to have a less-than-significant impact (Resolution 079-2002). Modeling indicates that the proposed project would exceed this screening threshold. Accordingly, EDCAQMD's quantitative threshold of 82 pounds per day is used to evaluate ROG and NO<sub>x</sub> emissions. This threshold is combined to obtain a total ozone precursor threshold of 164 pounds per day. With the combined threshold, emissions of one pollutant may be in excess of 82 pounds per day; however, if the combined total is below 164 pounds per day, then EDCAQMD considers the impact to be less than significant. For example, a project with NO<sub>x</sub> emissions of 100 pounds per day and ROG emissions of 20 pounds per day would be considered to have a less-than-significant impact because the combined total would be 120 pounds per day, which is below the combined threshold of 164 pounds per day (Otani pers. comm.).

EDCAQMD's ozone-precursor thresholds were developed to analyze emissions generated by a single project, and thus do not lend well to an evaluation of emissions from a land use plan, like the CEDHSP. Large-scale land use plans that consist of numerous individual projects will, by their nature, produce more criteria pollutants than single projects, even if the plans include efficiency measures to reduce emissions. Use of project-level thresholds to evaluate land use plans may therefore unfairly penalize the plans, yielding a significant and unavoidable conclusion simply due to scale. Nevertheless, EDCAQMD's project-level thresholds are used to inform the plan's impacts on air quality.

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<sup>9</sup> EDCAQMD CEQA Guidelines indicate that other criteria pollutants (e.g., CO) may result in a significant impact during construction if they exceed federal or state ambient air quality standards. However, the Guidelines (Chapter 4, page 3) also state that if ROG and NO<sub>x</sub> emissions are deemed not significant, then exhaust emissions of CO and PM<sub>10</sub> from construction equipment and worker commute vehicles may also be deemed not significant.

### ***Construction-Generated Fugitive Dust***

According to the EDCAQMD CEQA Guidelines, emissions of fugitive-dust PM<sub>10</sub> need not be quantified and may be assumed to be not significant if the proposed project includes mitigation measures that prevent visible dust beyond the property lines (EDCAQMD 2002) because mitigation measures that control fugitive-dust emissions can reduce those emissions by approximately 50–75 percent. However, without mitigation, uncontrolled construction dust could contribute to exceedances of the CAAQS and would be considered a significant impact. Use of the PM<sub>10</sub> standard as a surrogate for the assessment of PM<sub>2.5</sub> impacts is considered appropriate because PM<sub>2.5</sub> is a substituent of PM<sub>10</sub>.

### ***Operations-Generated Regional Ozone Precursors***

EDCAQMD has adopted size thresholds for various land uses to identify projects that would result in operational emissions in excess of EDCAQMD's threshold of 82 pounds per day for ROG and NO<sub>x</sub>. Unlike with construction emissions, the 82-pound-per-day threshold for ROG and NO<sub>x</sub> cannot be combined for a total ozone threshold. Accordingly, ROG and NO<sub>x</sub> emissions associated with project operations must be evaluated separately against the 82-pound-per-day threshold (Otani pers. comm.). Based on the EDCAQMD CEQA Guidelines, the proposed project would exceed the residential screening thresholds (i.e., 230 single-family dwelling units, 350 multifamily dwelling units). Accordingly, EDCAQMD's quantitative threshold of 82 pounds per day is used to evaluate ROG and NO<sub>x</sub> emissions.

As noted above, EDCAQMD's ozone precursor thresholds were developed to analyze emissions generated by a single project, and thus do not lend well to an evaluation of emissions from a land use plan, like the CEDSHP. Nevertheless, EDCAQMD's project-level thresholds are used to inform the plan's impacts on air quality.

### ***Operations-Generated Regional and Local CO and PM<sub>10</sub><sup>10</sup>***

EDCAQMD considers CO and PM<sub>10</sub> emissions significant if they cause or contribute to violations of the NAAQS or CAAQS (EDCAQMD 2002).

### **Human Health Concerns**

As discussed in Section 3.2.1.2, *Environmental Setting*, all criteria pollutants that the proposed project could generate are associated with some form of health risk (e.g., asthma, lower respiratory problems). Criteria pollutants can be classified as either regional or localized pollutants. *Regional* pollutants can be transported over long distances and affect ambient air quality far from the emissions source. *Localized* pollutants affect ambient air quality near the emissions source. Ozone is considered a regional criteria pollutant, whereas CO, NO<sub>2</sub>, SO<sub>2</sub>, and Pb are localized pollutants. PM can be both a local and a regional pollutant, depending on its composition. As discussed above, the primary pollutants of concern for the CEDHSP are ozone precursors (i.e., ROG and NO<sub>x</sub>), CO, PM, and TACs (i.e., DPM and NOA). The following sections discuss thresholds and analysis considerations for regional and local emissions with respect to their human-health implications.

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<sup>10</sup> The EDCAQMD's CEQA Guidelines (2002) also consider SO<sub>2</sub>, Pb, sulfates, hydrogen sulfide, vinyl chloride, and visibility particulates to be significant if they exceed the federal or state ambient air quality standards. However, these pollutants are typically associated with industrial sources, which are not included as part of the CEDHSP. Accordingly, they are not evaluated further.



### ***Regional Project-Generated Criteria Pollutants (Ozone Precursors and Regional PM)***

Adverse health effects induced by CEDHSP-generated regional criteria pollutant emissions (i.e., ozone precursors and PM) are highly dependent on a multitude of interconnected variables (e.g., cumulative concentrations, local meteorology and atmospheric conditions, the number and character of exposed individuals [e.g., age, gender]). For these reasons, ozone precursors (i.e., ROG and NO<sub>x</sub>) contribute to the formation of ground-borne ozone on a regional scale. Emissions of ROG and NO<sub>x</sub> generated in one area may not equate to a specific ozone concentration in that same area. Similarly, some types of particulate pollution may be transported over long distances or formed through atmospheric reactions. As such, the magnitude and locations of specific health effects from exposure to increased ozone or regional PM concentrations are the products of emissions generated by numerous sources throughout a region, as opposed to a single individual project. Moreover, exposure to regional air pollution does not guarantee that an individual will experience an adverse health effect: as discussed above, there are large individual differences in the intensity of symptomatic responses to air pollutants. According to the El Dorado Community Health Assessment, approximately 24 percent of residents in El Dorado County have been diagnosed with asthma (2015–2016 data) and may therefore experience more intense symptomatic responses to air pollution (El Dorado County 2018). However, other variables, including the overall health of individuals and other underlying medical conditions, which cannot be known, strongly influence individual health consequences.

Nonetheless, CEDHSP-generated emissions could increase photochemical reactions and the formation of tropospheric ozone and secondary PM, which, at certain concentrations, could lead to increased incidence of specific health consequences, such as various respiratory and cardiovascular ailments. As discussed previously, air districts develop region-specific CEQA thresholds of significance in consideration of existing air quality concentrations and attainment designations under the NAAQS and CAAQS. The NAAQS and CAAQS are informed by a wide range of scientific evidence that demonstrates that there are known safe concentrations of criteria pollutants. Accordingly, the CEDHSP would expose receptors to substantial regional pollution if any of EDCAQMD's thresholds summarized above were exceeded.

### ***Localized Project-Generated Criteria Pollutants and Air Toxics***

Localized project-generated pollutants are deposited near the emissions source and potentially affect nearby populations. Because these pollutants dissipate with distance, emissions from individual projects can result in direct health impacts on adjacent sensitive receptors. The localized pollutants of concern associated with the CEDHSP are DPM,<sup>11</sup> NOA, CO, and PM. The following subsections provide the applicable thresholds for each pollutant.

#### ***Diesel Particulate Matter***

EDCAQMD has adopted a fuel-based screening threshold for DPM in which projects that consume less than 37,000 gallons of fuel over the construction period are considered to have a less-than-

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<sup>11</sup> DPM is the primary TAC of concern for mobile sources: of all controlled TACs, emissions of DPM are estimated to be responsible for about 70 percent of the total ambient TAC risk (CARB 2000). Given the risks associated with DPM, tools and factors for evaluating human-health impacts from project-generated DPM have been developed and are readily available. Conversely, tools and techniques for assessing project-specific health outcomes that result from exposure to other TACs (e.g., benzene) remain limited. These limitations impede the ability to evaluate and precisely quantify potential public health risks posed by TAC exposure.

significant impact (Resolution 079-2002). Modeling indicates that the proposed project would exceed this screening threshold.

EDCAQMD considers health risks from projects that exceed this screening level to be significant if the lifetime probability of contracting cancer is greater than 10 in 1 million, or if ground-level concentration of noncarcinogenic toxic air contaminants would result in a hazard index (HI)<sup>12</sup> of greater than 1 (with implementation of best-available control technology). The project-level threshold of significance for evaluating DPM generated by a project can also be used to determine whether a project's DPM emissions are cumulatively considerable.

#### *Naturally Occurring Asbestos*

If a project does not comply with the applicable regulatory requirements outlined in Rule 223-2 to control NOA, then EDCAQMD considers that project to have a significant impact.

#### **Particulate Matter and Carbon Monoxide**

As discussed above, uncontrolled construction dust could contribute to exceedances of the health-protective PM CAAQS and would be considered a significant impact. EDCAQMD likewise considers operational CO and PM emissions significant if they would cause or contribute to violations of the NAAQS or CAAQS. EDCAQMD has also determined that if ROG and NO<sub>x</sub> emissions are deemed not significant, then exhaust emissions of CO and PM<sub>10</sub> may also be deemed not significant (EDCAQMD 2002). Special consideration should be given to potential CO hot spots associated with increased traffic congestion. CO concentrations from mobile sources in excess of the CAAQS could result in a CO hot spot and would constitute a significant impact (EDCAQMD 2002).

#### **Odors**

EDCAQMD recommends that, for projects near a source of odors where there is currently no nearby development and for odor sources located near existing receptors, the determination of significance should be based on the distance and frequency of odor complaints from the public regarding a similar facility.

### **3.2.2.3 Impacts and Mitigation Measures**

#### **Impact AQ-1: Conflict with or obstruct implementation of the applicable air quality plan (significant and unavoidable)**

El Dorado County is currently designated a nonattainment area for the federal 8-hour ozone and PM<sub>2.5</sub> standards (Table 3.2-3). The applicable air quality plan is the 2017 Ozone Plan, which outlines how the SFNA, including western El Dorado County, will meet the 75 ppb 8-hour ozone NAAQS.<sup>13</sup> The 2017 Ozone Plan estimates future emissions in the SFNA and determines strategies necessary for emissions reductions through regulatory controls. Emissions projections are based on population, vehicle, and land use trends typically developed by the regional air quality management

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<sup>12</sup> The HI represents the sum of hazard quotients for toxics that affect the same target organ or organ system. An HI of 1 or lower means that air toxics are unlikely to cause adverse, noncancerous health effects over a lifetime of exposure.

<sup>13</sup> As noted in Section 3.2.1.2, *Environmental Setting*, air districts in the SFNA have released a draft plan to address the 70-ppb 8-hour ozone standard. Because this plan is a draft and has not yet been approved by USEPA, Impact AQ-1 assesses consistency with the currently approved 2017 Ozone Plan.

districts (e.g., EDCAQMD, SMAQMD) and metropolitan planning organizations (MPOs), including the SACOG.

The EDCAQMD considers projects consistent with the 2017 Ozone Plan if the proposed project satisfies the following criteria.

- Does not require a change in the existing land use designation, such as through a General Plan amendment or rezone
- Does not exceed EDCAQMD significance thresholds
- Implements applicable 2017 Ozone Plan emissions-reduction measures
- Complies with all applicable air district rules and regulations

Project consistency with each criterion is evaluated below.

### **Change to Land Use Designation Plan**

As described in Section 3.9, *Land Use and Planning and Agricultural Resources* of the original Draft EIR, the CEDHSP includes amendments to the County's General Plan land use designations that would change the designation of some lands now designated for open space in the El Dorado Hills Specific Plan (EDHSP) to urban development. In addition, undeveloped lands now designated for development in the EDHSP would be redesignated to Open Space. Because approving the proposed project would amend the General Plan land use diagram, it would conflict with EDCAQMD's first criterion for defining consistency with the 2017 Ozone Plan.

### **Exceedance of EDCAQMD Significance Thresholds**

As described below under Impacts AQ-2a and AQ-2c, neither construction of the proposed project, nor combined construction and partial operation of the proposed project, would exceed EDCAQMD's significance criteria with implementation of Mitigation Measures AQ-2a through AQ-2d. Operation of the proposed project would not exceed EDCAQMD's thresholds (see Impact AQ-2b).

### **Implementation of Applicable 2017 Ozone Plan Reduction Measures**

EDCAQMD CEQA Guidelines Appendix E outlines measures designed to reduce ozone emissions. The measures target mobile-source emissions through bicycle, pedestrian, and transit use, parking supply, and transportation-demand management strategies. The measures target area-source and energy emissions through building-design strategies. The proposed project is a specific plan that allows for pedestrian-scale development, a walkable community linking neighborhoods, and mixed-used development. This approach to land use would be consistent with the 2017 Ozone Plan and the County's long-term goal of encouraging infill and integrated land use planning. Siting land uses closer to employment opportunities would reduce VMT, encourage alternative transportation, and contribute to long-term mobile-source reductions. The CEDHSP contains the following policies that reduce VMT and emissions from motor vehicles.

- **Policy 8.1**, Minimize off-street parking
- **Policy 8.2**, Provide bicycle parking
- **Policy 8.3**, Provide parking for low-emitting vehicles
- **Policy 8.4**, Install plug-in electric vehicle charging stations

- **Policy 8.5**, Pre-wire residential parking areas for future electric vehicles
- **Policy 8.10**, Create or participate in a transportation management association

The CEDHSP also includes the following energy-efficiency and renewable-energy measures that would reduce building energy consumption.

- **Policy 8.11**, Title 24 standards
- **Policy 8.16**, EnergyStar appliances
- **Policies 8.20–8.21**, High-efficiency lighting
- These CEDHSP policies would be consistent with the mobile-source, area-source, and building energy-reduction measures outlined in the 2017 Ozone Plan.

### **Compliance with Air District Rules and Regulations**

As described in Impact AQ-2a (below), implementation of Mitigation Measure AQ-2d requires compliance with EDCAQMD Rules 223 and 223-1. In addition, Mitigation Measure AQ-3 would require the proposed project to be consistent with EDCAQMD Rule 223-2, which requires submittal of an Asbestos Dust Mitigation Plan to the EDCAQMD prior to the start of any construction activity (see Impact AQ-3d). Project implementation also would comply with all other applicable EDCAQMD rules, as described in Section 3.2.1.1, *Regulatory Setting*.

### **Conclusion**

The CEDHSP *Sustainability Element* includes several policies that would contribute to criteria pollutant reductions. The proposed project would comply with applicable EDCAQMD rules and regulations, including Rules 223, 223-1 and 223-2. Modeled construction and operational emissions for buildout of the CEDHSP are not estimated to exceed EDCAQMD's significance thresholds. However, the proposed project would require amending the County's General Plan land use diagram. Accordingly, based on EDCAQMD's analysis criteria for consistency with applicable air quality plans, the CEDHSP would conflict with the 2017 Ozone Plan for the SFNA. This impact would be significant and unavoidable, and no additional feasible mitigation is available to reduce the impact to a less-than-significant level.

### **Impact AQ-2a: Result in a cumulatively considerable net increase of any criteria pollutant during construction for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard (less than significant with mitigation)**

Construction of the proposed project has the potential to create air quality impacts through the use of heavy-duty construction equipment, construction-worker vehicle trips, and material-hauling truck trips. In addition, fugitive-dust emissions would result from site preparation and grading, and paving activities and application of architectural coatings would generate ROG<sub>s</sub>. These emissions were quantified using CalEEMod and RCEM (Ascent 2023).

Estimated construction emission levels are summarized in Table 3.2-5. Several construction activities would likely occur concurrently. To ensure a conservative analysis, maximum daily emissions during these periods of overlap were estimated assuming that all equipment would operate at the same time. This approach identifies the maximum total project-related air quality impact during construction.

**Table 3.2-5. Estimated Maximum Unmitigated Construction Emissions (pounds per day)<sup>a, b</sup>**

Year	ROG	NO <sub>x</sub>	CO	PM <sub>10</sub>			PM <sub>2.5</sub>		
				Dust	Exhaust	Total <sup>c</sup>	Dust	Exhaust	Total <sup>c</sup>
Year 1	17	45	40	7	2	9	4	2	5
Year 2	64	66	58	35	3	38	13	3	16
Year 3	272	28	27	20	1	21	10	1	11
Year 4	277	78	78	28	3	31	12	3	15
Year 5	271	28	27	20	1	21	10	1	11
Year 6	132	30	28	20	1	21	10	1	11
Year 7	142	28	27	22	1	23	10	1	11
Year 8	136	14	23	22	<1	22	10	<1	11
Year 9	123	14	23	20	<1	20	10	<1	11
Year 10	123	16	25	20	1	21	10	1	11
Year 11	0	0	0	0	0	0	0	0	0
Year 12	140	14	17	19	<1	20	10	<1	11
Year 13	140	10	17	19	<1	19	10	<1	10
Year 14	210	17	39	42	1	43	15	1	15
Year 15	142	17	33	42	1	42	15	<1	15
Threshold	82	82	-	BMPs <sup>d</sup>	-	-	BMPs <sup>d</sup>	-	-

Source: Ascent 2023.

<sup>a</sup> Exceedances of the EDCAQMD's thresholds are shown in underline.

<sup>b</sup> **Bold** text and shading indicate that although the EDCAQMD NO<sub>x</sub> threshold of 82 pounds per day would be exceeded, combined ROG and NO<sub>x</sub> emissions would not exceed EDCAQMD's total ozone threshold of 164 pounds per day.

<sup>c</sup> Values may not sum exactly due to rounding.

<sup>d</sup> EDCAQMD CEQA Guidelines consider dust impacts to be less than significant for projects that implement BMPs. BMPs = best management practices; CO = carbon monoxide; NO<sub>x</sub> = nitrogen oxides; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; ROG = reactive organic compounds.

As shown in Table 3.2-5, construction of the proposed project would exceed the EDCAQMD's threshold for ROG in Years 3–10 and Years 12–15. These emissions and exceedances correspond to the application of architectural coatings. However, combined NO<sub>x</sub> and ROG emissions in Years 6, 8–10, 12, 13, and 15 would not exceed the EDCAQMD's total ozone threshold of 164 pounds per day. NO<sub>x</sub> emissions would be primarily associated with use of heavy-duty off-road equipment (e.g., bulldozers). Based on the results presented in Table 3.2-5, construction-related combined emissions of ozone precursors would be considered a significant impact for Years 3–5 and 14. These emissions could contribute to ozone ground-level formation in the MCAB, which, at certain concentrations, can contribute to short- and long-term human-health effects, if left unmitigated.

Implementation of Mitigation Measures AQ-2a through AQ-2c, identified below, is required to reduce ROG emissions from architectural coatings and NO<sub>x</sub> emissions from construction equipment, respectively. These measures are consistent with local air district recommendations to reduce construction-generated exhaust emissions. Mitigation Measure GHG-1 in Section 3.6, *Greenhouse Gas Emissions*, would also achieve reductions through requirements for alternatively fueled equipment, idling limitations, local sourcing of materials, and other BMPs. EDCAQMD's CEQA Guidelines consider dust impacts to be less than significant for projects that implement BMPs. Mitigation Measure AQ-2d outlines these BMPs, which are required for reducing the impact of construction-related fugitive dust to a less-than-significant level. Table 3.2-6 summarizes maximum daily

emissions with implementation of Mitigation Measures AQ-2a through AQ-2d (Mitigation Measure GHG-1 is not quantified).

**Table 3.2-6. Estimated Maximum Mitigated Construction Emissions (pounds per day)**

Year	ROG <sup>a</sup>	NO <sub>x</sub> <sup>b,c</sup>	CO	PM <sub>10</sub>			PM <sub>2.5</sub>		
				Dust <sup>d</sup>	Exhaust <sup>b</sup>	Total <sup>e</sup>	Dust <sup>d</sup>	Exhaust <sup>b</sup>	Total <sup>e</sup>
Year 1	5	40	40	3	2	5	1	2	3
Year 2	7	60	58	14	3	16	5	3	8
Year 3	11	25	27	8	1	9	4	1	5
Year 4	17	70	78	11	3	14	5	3	8
Year 5	11	25	27	8	1	9	4	1	5
Year 6	6	5	35	8	<1	8	4	<1	4
Year 7	6	8	33	8	<1	9	4	<1	4
Year 8	6	8	33	8	<1	9	4	<1	4
Year 9	5	3	33	8	<1	8	4	<1	4
Year 10	5	5	35	8	<1	8	4	<1	4
Year 11	0	0	0	0	0	0	0	0	0
Year 12	6	3	21	7	<1	8	4	<1	4
Year 13	6	3	21	7	<1	8	4	<1	4
Year 14	12	10	50	17	<1	17	6	<1	6
Year 15	9	17	33	16	1	17	6	<1	6
Threshold	82	82	-	BMPs <sup>f</sup>	-	-	BMPs <sup>f</sup>	-	-

Source: Ascent 2023.

<sup>a</sup> Per Mitigation Measure AQ-2a, assumes use of low-volatile organic compound (VOC) coatings that have a VOC content of 10 grams per liter.

<sup>b</sup> Per Mitigation Measure AQ-2c, assumes use of Tier 4 Final construction equipment during Years 6–15.

<sup>c</sup> Per Mitigation Measure AQ-2b, assumes a 10-percent reduction in NO<sub>x</sub> during Years 1–5.

<sup>d</sup> Per Mitigation Measure AQ-2d, assumes a 61-percent reduction in fugitive dust.

<sup>e</sup> Values may not sum exactly due to rounding.

<sup>f</sup> EDCAQMD CEQA Guidelines consider dust impacts to be less than significant for projects that implement BMPs. Mitigation Measure AQ-2d outlines these BMPs, which are required for reducing the impact of construction-related fugitive dust to a less-than-significant level.

BMPs = best management practices; CO = carbon monoxide; NO<sub>x</sub> = nitrogen oxides; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; ROG = reactive organic compounds.

As shown in Table 3.2-6, construction emissions would not be expected to contribute a significant level of air pollution such that regional air quality within the MCAB would be degraded. Accordingly, construction emissions would result in a less-than-significant impact with implementation of Mitigation Measures AQ-2a through AQ-2d and GHG-1.

#### **Mitigation Measure AQ-2a: Use low-VOC coatings during construction.**

The project applicant will require all construction contractors use low-VOC coatings that have a VOC content of 10 grams/liter or less during construction. The project applicant will submit evidence of the use of low-VOC coatings to EDCAQMD prior to the start of construction.

**Mitigation Measure AQ-2b: Implement BMPs to reduce construction-related exhaust emissions during early construction.**

The project applicant, or its designee, will provide a plan for EDCAQMD approval that demonstrates that the heavy-duty off-road vehicles (50 horsepower or more) to be used 8 hours or more during the construction project will achieve a project-wide fleet-average 10-percent NO<sub>x</sub> reduction compared to the most recent CARB fleet average. Acceptable options for reducing emissions may include use of cleaner engines (e.g., Tier 3 or Tier 4 engines), low-emission diesel products, alternative fuels, engine-retrofit technology, aftertreatment products, and/or other options as they become available. The plan will have two components, an initial report submitted before construction, and a final report submitted at the completion, and comply with the following specifications.

- Submit the initial report at least 4 business days prior to construction activity using SMAQMD's Construction Mitigation Tool (<http://www.airquality.org/businesses/ceqa-land-use-planning/mitigation>).
- Provide project information and construction company information.
- Include the equipment type, horsepower rating, engine model year, projected hours of use, and CARB equipment-identification number for each piece of equipment in the plan. Incorporate all owned, leased, and subcontracted equipment anticipated to be used.
- To demonstrate continued project compliance, submit the final report at the end of the job, phase, or calendar year, as pre-arranged with EDCAQMD staff and documented in the approval letter.

EDCAQMD and/or other officials may conduct periodic site inspections to determine project compliance. Nothing in this mitigation will supersede other federal, state, or EDCAQMD rules or regulations. This mitigation will sunset on January 1, 2028, provided that full implementation of the CARB In-Use Off-Road Regulation has occurred or equally effective or superior regulations have been implemented, as EDCAQMD determines.

**Mitigation Measure AQ-2c: Require advanced off-road engines and newer onsite on-road trucks.**

Beginning in 2028, following the sunset of the NO<sub>x</sub> performance standard outlined in Mitigation Measure AQ-2b, the project applicant will require that off-road equipment utilize USEPA-certified Tier 4 Final or more-advanced engines. A copy of each unit's certified tier specification, emissions rating, and any required CARB or air pollution control district operating permit will be made available to EDCAQMD at the time each piece of equipment is mobilized.

The project applicant will also require contractors to use onsite diesel on-road trucks (e.g., water trucks) that have model-year engines manufactured or retrofitted ideally within the past 5 years of when the vehicles are brought to the construction site, but no more than 8 years from overall project ground-breaking. The project applicant will consider use of electric or hybrid-electric vehicles over diesel counterparts to the extent that they become commercially available and earn a track record for reliability in real-world construction conditions and become cost effective.

**Mitigation Measure AQ-2d: Implement EDCAQMD fugitive-dust control measures and submit a Fugitive Dust Control Plan.**

As required by EDCAQMD Rule 223-1, the project applicant will implement all feasible and practicable fugitive-dust control measures during construction. Emissions-reduction measures will include, at a minimum (and as applicable), the EDCAQMD Rule 223-1 BMPs identified in Appendix B of the DEIR, such as application of soil stabilizers, pre-watering soil prior to cut-and-fill activities, and covering haul vehicles. EDCAQMD or the contractor may identify additional measures, as appropriate. All measures will be incorporated into a Fugitive Dust Control Plan, which will be submitted to and approved by EDCAQMD. The County will not issue a grading permit for any phase of construction until it has received the approved Fugitive Dust Control Plan. Compliance with the approved plan will be documented, at the applicant's expense, through periodic monitoring and annual reporting to the County.

**Mitigation Measure GHG-1: Implement BMPs to reduce construction-generated GHG emissions.****Impact AQ-2b: Result in a cumulatively considerable net increase of any criteria pollutant during operation for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard (less than significant)**

Occupancy of the proposed project has the potential to create air quality impacts primarily associated with mobile and area sources. Motor-vehicle traffic would include daily resident access, visitor trips, waste-management trucks, and employee trips. Area sources would include landscaping equipment, off-gassing during the reapplication of architectural coatings, consumer products (e.g., solvents, cleaning supplies, cosmetics, toiletries). Energy sources would include onsite natural-gas combustion for space and water heating. Each of these sources was taken into account when calculating the plan's long-term operational emissions (Ascent 2023).

Table 3.2-7 summarizes estimated operational emissions at full buildout. The analysis accounts for legislative requirements that were default in CalEEMod at the time of analysis and emissions benefits achieved by mandatory CEDSHP policies that prohibit wood-burning fireplaces and stoves (Policies 8.50 and 8.51). Additional reductions may be achieved by implementing voluntary CEDHSP policies that reduce energy consumption, particularly natural-gas usage, and encourage alternative transportation (e.g., bicycling and walking); however, these policies were neither quantified nor included as part of the emissions benefits because the exact number of features is currently unknown given that the proposed project is only at the specific-plan approval stage (i.e., no immediate development activity is proposed). Accordingly, the emissions presented in Table 3.2-7 likely represent a conservative estimate of operational impacts.



**Table 3.2-7. Estimated Operational Emissions (pounds per day) <sup>a</sup>**

Source	ROG	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Area Sources	39	16	89	2	2
Energy Sources	<1	4	2	<1	<1
Mobile Sources	21	13	135	34	9
Total <sup>b</sup>	61	34	225	36	11
EDCAQMD Threshold	82	82	CAAQS <sup>c</sup>	CAAQS <sup>c</sup>	CAAQS <sup>c</sup>

Source: Ascent 2023.

<sup>a</sup> Emissions account for reductions achieved by CEDHSP Policies 8.50 and 8.51.

<sup>b</sup> Values may not add due to rounding.

<sup>c</sup> Refer to Impact AQ-3c for significance determination.

CAAQS = California ambient air quality standards; CO = carbon monoxide; EDCAQMD = El Dorado County Air Quality Management District; NO<sub>x</sub> = nitrogen oxides; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; ROG = reactive organic compounds.

As shown in Table 3.2-7, operational ROG and NO<sub>x</sub> emissions would not exceed the EDCAQMD's pollutant threshold of 82 pounds per day. Thus, operational emissions would not contribute to regional ozone formation in the MCAB. Consequently, operation of the proposed project would result in a less-than-significant regional impact related to air quality. Refer to Impact AQ-3c for an assessment of localized air pollution with respect to the CAAQS.

The CEDHSP's *Sustainability Element* includes several policies that would further reduce criteria pollutant emissions during project operations. Emissions benefits achieved by CEDHSP Policies 8.50 and 8.51 have been incorporated into the emissions modeling presented in Table 3.2-7. Additional reductions may be achieved by implementing policies that reduce natural gas usage and vehicle trips, including Policy 8.1 (Minimize off-street parking), Policy 8.2 (Provide bicycle parking), Policy 8.3 (Provide parking for low-emitting vehicles), Policy 8.4 (Install plug-in electric vehicle charging stations), Policy 8.5 (Pre-wire residential parking areas for future electric vehicles), Policy 8.10 (Create a transportation management association), Policy 8.12 (Building orientation), Policy 8.15 (Programmable thermostats), Policy 8.17 (Natural air drying), and Policy 8.19 (Third-party commission and verification). Potential strategies (e.g., all electric design) pursued under Mitigation Measures GHG-2 in Section 3.6, *Greenhouse Gas Emissions*, would also reduce operational criteria pollutant emissions. These CEDHSP *Sustainability Element* policies and DEIR measures collectively would reduce emissions further below EDCAQMD thresholds.

**Impact AQ-2c: Result in a cumulatively considerable net increase of any criteria pollutant during combined construction and operation for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard (less than significant with mitigation)**

Construction of several residential units would start in Year 1 and be completed by the end of Year 3, with operational emissions beginning immediately thereafter in Year 4. Accordingly, concurrent construction and operational activities would occur from Years 4–15, resulting in higher maximum daily emissions than either component when analyzed separately.

Combined construction and operational emissions are presented in Table 3.2-8 and compared with the EDCAQMD's thresholds. Estimated construction emissions assume implementation of Mitigation Measures AQ-2a through AQ-2d, and operational emissions include emissions benefits from applicable and quantifiable CEDHSP policies (Policies 8.50 and 8.51) (Mitigation Measure GHG-1 is

not quantified). The analysis conservatively assumes that all structures would be fully occupied immediately following construction.

**Table 3.2-8. Estimated Mitigated Combined Construction and Operational Emissions (pounds per day)<sup>a</sup>**

Year <sup>b</sup>	ROG	NO <sub>x</sub>	CO	PM <sub>10</sub>			PM <sub>2.5</sub>		
				Dust	Exhaust	Total	Dust	Exhaust	Total
Year 4	27	77	117	15	4	19	6	3	9
Year 5	30	37	97	16	2	18	6	2	8
Year 6	32	21	135	20	1	21	7	1	8
Year 7	36	26	143	22	1	23	8	1	9
Year 8	39	26	153	23	1	24	8	1	9
Year 9	42	24	163	24	1	25	8	1	10
Year 10	45	26	173	25	2	27	9	1	10
Year 11	42	23	148	19	2	20	5	2	6
Year 12	48	26	169	26	2	28	9	2	10
Year 13	52	28	184	29	2	30	10	2	11
Year 14	62	38	229	40	2	42	12	2	14
Year 15	69	50	253	47	3	50	14	3	17
EDCAPCD Threshold	82	82	CAAQS <sup>c</sup>	BMPs	-	CAAQS <sup>c</sup>	BMPs	-	CAAQS <sup>c</sup>

Source: Ascent 2023.

<sup>a</sup> Emissions assume implementation of Mitigation Measures AQ-2a through 2d and CEDHSP Policies 8.50 and 8.51.

<sup>b</sup> Emissions were quantified assuming that construction would begin in 2023, and the first buildings could become operational in 2027.

<sup>c</sup> Refer to Impact AQ-3c for significance determination.

CAAQS = California ambient air quality standards; CO = carbon monoxide; EDCAQMD = El Dorado County Air Quality Management District; NO<sub>x</sub> = nitrogen oxides; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; ROG = reactive organic compounds.

As shown in Table 3.2-9, combined construction and operational emissions would not exceed EDCAQMD’s numeric thresholds with implementation of Mitigation Measures AQ-2a through AQ-2d. Thus, combined emissions would not be expected to contribute to a significant level of air pollution such that regional air quality within the MCAB would be degraded, and this impact would be less than significant with mitigation.

**Mitigation Measure AQ-2a: Use low-VOC coatings during construction.**

**Mitigation Measure AQ-2b: Implement BMPs to reduce construction-related exhaust emissions during early construction.**

**Mitigation Measure AQ-2c: Require advanced off-road engines and newer onsite on-road trucks.**

**Mitigation Measure AQ-2d: Implement EDCAQMD fugitive-dust control measures and submit a Fugitive Dust Control Plan.**

**Mitigation Measure GHG-1: Implement BMPs to reduce construction-generated GHG emissions.**

**Impact AQ-3a: Expose sensitive receptors to substantial toxic air contaminant concentrations and health risks during construction (significant and unavoidable)**

Equipment and vehicles used during construction would generate DPM, potentially resulting in the exposure of nearby existing sensitive receptors (e.g., residences) to increased pollutant concentrations. Similarly, new residents that occupy the project area prior to completion of the entire proposed project may be exposed to a portion of construction-generated DPM. The primary driver of health risk from DPM and all TACs is the concentration of a substance (i.e., the pollutant) and the duration of exposure. Cancer health risks associated with exposure to DPM are typically associated with chronic (i.e., long-term) exposure, in which a 30-year exposure period is assumed. In addition, DPM concentrations, and, thus, cancer health, risks typically dissipate as a function of distance from the emissions source (SMAQMD 2018).

As described above, several residential and educational land uses are within 1,000 feet of the project area (see Table 3.2-3). Air quality management agencies recognize that many variables, such as duration of the construction period, types of construction equipment, and the amount of onsite diesel-generated PM exhaust, can influence DPM concentrations and the potential for a project to result in increased health risks. Accurately quantifying DPM concentrations and predicting associated health risks requires detailed, site-specific information about these and other parameters that are currently unavailable, given the preliminary level of design at this time. Based on the mass-emission results, the greatest potential for DPM emissions would occur between Year 1 and Year 5, when construction of land uses within the planning areas would overlap with construction of several offsite improvements. Construction activities during this time would be spread among the two planning areas (i.e., Pedregal and Westside Serrano) and offsite locations, as opposed to at a single location. Similar geographic dispersion would occur throughout construction. However, depending on the size and scale of an individual development project, along with its construction schedule and proximity to receptors, there may also be instances where DPM emissions could result in cancer or noncancer health risks that exceed EDCAQMD's thresholds, resulting in a potentially significant impact.

Implementation of CEDHSP policies would reduce receptor exposure to TAC emissions from construction activities. CEDHSP Policy 8.59 would further reduce risk by requiring installation of minimum efficiency reporting value (MERV) 6 air filters on all residential central-air or ventilation systems; filters more thorough than MERV 8 are required in nonresidential central-air or ventilation systems. According to USEPA (2009), MERV 6 filters remove 35 percent to 50 percent of PM<sub>10</sub>, and MERV 8 filters remove more than 70 percent of PM<sub>10</sub>. Best-available control technologies implemented pursuant to Mitigation Measure AQ-2b would also reduce construction-generated DPM emissions during early construction. Mitigation Measure AQ-2b outlines a performance standard for heavy-duty off-road equipment for achieving a project-wide fleet-average NO<sub>x</sub> reduction of 10 percent, compared with the most recent CARB fleet average at the time of construction. This performance standard may be met through a variety of CARB-approved best-available control technologies that achieve DPM benefits and NO<sub>x</sub> reductions. For example, use of alternatively fueled equipment (as required by Mitigation Measure GHG-1) or engines that meet Tier 3 or Tier 4 emission standards reduces emissions. Use of a performance standard, as required by Mitigation Measure AQ-2b, as opposed to a single equipment-specific control (e.g., all electric-powered equipment), provides construction contractors with flexibility to select technologies that are the most cost effective and appropriate at the time of construction. Because reduction technologies and air quality regulations are constantly changing, and it is highly likely that additional control strategies will be developed throughout the course of construction, this type of mitigation also provides for continued protection of

public health without precluding new control measures or existing technologies that may become economically feasible with changing market conditions. Recognizing this, Mitigation Measure AQ-2c requires the use of advanced off-road engines and newer onsite on-road trucks beginning in 2028, following the sunset of Mitigation Measure AQ-2b.

Despite these considerations and the implementation of Mitigation Measures AQ-2b, AQ-2c, and GHG-1, there may be instances where project-specific conditions preclude the reduction of health risks below adopted thresholds. For example, construction may require multiple concurrent phases where DPM is generated by various pieces of heavy equipment near receptors. Depending on the magnitude and duration, DPM generated under these circumstances may lead to increased health risks at specific receptor locations. Therefore, health impacts from TAC exposure during construction are considered significant and unavoidable.

**Mitigation Measure AQ-2b: Implement BMPs to reduce construction-related exhaust emissions during early construction.**

**Mitigation Measure AQ-2c: Require advanced off-road engines and newer onsite on-road trucks.**

**Mitigation Measure GHG-1: Implement BMPs to reduce construction-generated GHG emissions.**

**Impact AQ-3b: Expose sensitive receptors to substantial toxic air contaminant concentrations and health risks during operation (less than significant)**

Because the CEDHSP would ultimately result in the net new development of up to 50,000 square feet of commercial space at build-out, implementation of the CEDHSP may include emissions of operational TACs (including DPM). Specifically, heavy-duty diesel trucks may be used for commercial deliveries. New commercial development may also install or operate stationary sources of TACs (e.g., diesel-fired emergency generators).

As discussed in Section 3.2.1.2, *Environmental Setting*, US 50 runs east-west to the south of the plan area. As the primary highway proximate to the plan area, delivery vehicles associated with future project land uses may increase diesel truck traffic on US 50. The segment of US 50 south of the plan area currently has annual average daily traffic volumes of 91,100 to 110,000, of which about 6.4% are classified as heavy trucks (CDOT 2023a, 2023b). Buildout of the CEDSHP would generate 8,847 average daily vehicle trips. Based on the countywide average fleet mix from CalEEMod, it is estimated that about 142 of these trips may be made by medium or heavy-duty trucks. When added to existing truck volumes on US 50, implementation of the CEDHSP would only increase the percentage of truck traffic on US 50 in the plan area by less than 0.2%. This increase would not result in a material change in ambient DPM concentrations or associated health risks from highway traffic. Moreover, the fraction of diesel-powered heavy trucks operating on California roadways, including those associated with the project, is expected to decline overtime due to federal and state regulations, as discussed in Section 3.2.1.1, *Regulatory Setting*.

Commercial development under the proposed project may result in the installation or operation of new stationary sources of TACs (e.g., generators). Although it is unknown what specific sources would be installed or where they would operate, all new stationary sources would be subject to EDCAQMD Rule 233, *Stationary Internal Combustion Engines*. Consequently, regulatory mechanisms exist to reduce emissions and associated health risks from stationary sources.

The CEDSP includes policies that would help reduce exposure of sensitive receptors to operational TAC. As discussed in Impact AQ-3a, CEDHSP Policy 8.59 requires MERV 6 air filters on all residential central-air or ventilation systems and MERV 8 are required in nonresidential central-air or ventilation systems. Implementation of these policies would further reduce operational exposure to TAC, and this impact would be less than significant.

**Impact AQ-3c: Expose sensitive receptors to substantial criteria pollutant concentrations during construction and operation (less than significant with mitigation)**

**Regional Criteria Pollutants**

As discussed under Impact AQ-2a, unmitigated combined emissions of ozone precursors during project construction would exceed EDCAQMD's threshold of significance. Emissions generated during construction could thus contribute to ozone formation in the MCAB, which, at certain concentrations, can contribute to short- and long-term human-health effects. However, Mitigation Measures AQ-2a through AQ-2d and GHG-1 would reduce emissions to below threshold levels. Operation of the project would not exceed EDCAQMD's numeric thresholds (see Impact AQ-2b).

EDCAQMD's thresholds are derived from regionally specific modeling that demonstrates that the air basin can accommodate emissions below the threshold levels without attainment of the NAAQS or CAAQS being affected, as required by the local air quality plans. As noted above, the NAAQS and CAAQS are set to protect public health and the environment within an adequate margin of safety. Accordingly, projects that do not exceed EDCAQMD's thresholds would not adversely affect air quality or exceed the NAAQS or CAAQS. The analysis presented in Impacts AQ-2a through AQ-2c demonstrates that, with mitigation, neither construction nor operational emissions would exceed EDCAQMD's thresholds. Accordingly, implementation of the CEDHSP would not contribute a significant level of air pollution that could degrade air quality within the MCAB. This impact would be less than significant with mitigation.

Although regional criteria pollutant emissions that the proposed project could generate would not result in a significant impact, consistent with the Friant Ranch Decision, Table 3.2-9 provides a conservative estimate of the maximum potential health effects associated with regional criteria pollutants that buildout of the proposed project could generate. Because construction emissions would not exceed EDCAQMD's thresholds with implementation of Mitigation Measures AQ-2a through AQ-2d and GHG-1, this analysis was conducted using SMAQMD's Minor Project Health Screening Tool (version 2) (i.e., operational emissions are below thresholds without mitigation). The results presented in Table 3.2-9 are conservative because they are based on a source generating 82 pounds per day of ROG, NO<sub>x</sub>, and PM<sub>2.5</sub> during each day of the year. As shown in Table 3.2-6 through Table 3.2-8, maximum daily emissions during most years of construction and during long-term operation are well below 82 pounds per day. For this reason, any increase in regional health risks associated with project-generated emissions would be less than those presented in Table 3.2-9, which are already very small increases over the background incident health effect.

The analysis presented in Table 3.2-9 is given for informational purposes, consistent with the Friant Ranch Decision, and has no bearing on the impact determination, which is based on a comparison of mass emissions to EDCAQMD thresholds. Although implementation of the CEDHSP would contribute to existing and future air pollution, it is important to consider the magnitude of project-generated emissions and potential health risks relative to ambient conditions. The increased health effects potentially associated with the CEDHSP (see Table 3.2-9) are minute relative to the background

regional-incident health effect. Specific to only the County, the CDPH (2023) reported an annual average of 1,769 deaths from all causes between 2019 and 2021. The estimated two deaths shown in Table 3.2-9 are less than 0.1 percent of this total.

**Table 3.2-9. Conservative Estimate of Increased Regional Health Effect Incidence Resulting from Buildout of the CEDHSP (cases per year)**

Health Endpoint	Age Range <sup>a</sup>	Annual Mean Incidences (model domain and SFNA) <sup>b</sup>	% of Background Incidence (SFNA) <sup>c</sup>	Total # of Health Incidence (SFNA) <sup>d</sup>
<b>PM<sub>2.5</sub> Emissions – Respiratory</b>				
Emergency Room Visits, Asthma	0–99	1	<1%	18,419
Hospital Admissions, Asthma	0–64	<1	<1%	1,846
Hospital Admissions, All Respiratory	65–99	<1	<1%	19,644
<b>PM<sub>2.5</sub> Emissions – Cardiovascular</b>				
Hospital Admissions, All Cardiovascular <sup>e</sup>	65–99	<1	<1%	24,037
Acute Myocardial Infarction, Nonfatal	18–24	<1	<1%	4
Acute Myocardial Infarction, Nonfatal	25–44	<1	<1%	308
Acute Myocardial Infarction, Nonfatal	45–54	<1	<1%	741
Acute Myocardial Infarction, Nonfatal	55–64	<1	<1%	1,239
Acute Myocardial Infarction, Nonfatal	65–99	<1	<1%	5,052
<b>PM<sub>2.5</sub> Emissions – Mortality</b>				
Mortality, All Cause	30–99	2	<1%	44,766
<b>ROG and NO<sub>x</sub> Emissions – Respiratory</b>				
Hospital Admissions, All Respiratory	65–99	<1	<1%	19,644
Emergency Room Visits, Asthma	0–17	<1	<1%	5,859
Emergency Room Visits, Asthma	18–99	<1	<1%	12,560
<b>ROG and NO<sub>x</sub> Emissions – Mortality</b>				
Mortality, Non-Accidental	0–99	<1	<1%	30,386

Source: SMAQMD Minor Project Health Screening Tool, version 2, published June 2020.

Note: The analysis point is in the middle of the CEDHSP plan area at 38.668969, -121.0743.

- <sup>a</sup> Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones that USEPA uses in its health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.
- <sup>b</sup> Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or *background health incidence*) values. Health effects are across the northern California model domain and five-air-district SFNA (rounded values are equivalent).
- <sup>c</sup> The percentage of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, these background incidence rates cover the five-air-district SFNA (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP, as reported in SMAQMD’s Minor Project Health Screening Tool, version 2.
- <sup>d</sup> The total number of health incidences across the five-air-district SFNA is calculated based on modeling data, as reported in SMAQMD’s Minor Project Health Screening Tool, version 2. The information is presented to assist in providing overall health context.
- <sup>e</sup> Less myocardial infarctions.

NO<sub>x</sub> = nitrogen oxides; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; ROG = reactive organic compounds; SFNA = Sacramento Federal Nonattainment Area.

Although the estimated health effects shown in Table 3.2-9 and the proportion of those effects relative to the regional and county background incidence are low, it is important to acknowledge that the model does not take into account population subgroups with greater vulnerabilities to air pollution, except in the analysis of age ranges for certain endpoints. As noted in SMAQMD's guidance, "the health effects of increased air pollution emissions may occur disproportionately in areas where the population is more susceptible to health effects from air pollution" (Ramboll 2020). The five determinates for increased susceptibility, as reported by the Centers for Disease Control and Prevention (2019), are genetics, behavior, environmental and physical influences, medical care, and social factors. The Public Health Alliance of Southern California has developed a Healthy Places Index to characterize local community conditions, including several of these determinates (Public Health Alliance of Southern California 2020). This data can be used to compare the overall relative health vulnerability of geographic areas. Based on the Healthy Places Index, the CEDHSP and surrounding areas have relatively high levels of health-promoting community conditions (i.e., healthier conditions than 78–93 percent of other California census tracts) (Public Health Alliance of Southern California 2023).

Ultimately, the County does not currently attain the ozone NAAQS or CAAQS, PM<sub>2.5</sub> NAAQS, or the PM<sub>10</sub> CAAQS (Table 3.2-3). Certain individuals residing in areas that do not meet the ambient air quality standards could be exposed to pollutant concentrations that cause or aggravate acute and/or chronic health conditions (e.g., asthma, lost workdays, premature mortality), regardless of implementation of the project.

### **Localized Particulate Matter**

Earthmoving activities required for construction would result in the generation of localized fugitive dust. The amount of dust generated by a project during construction is highly variable and dependent on the size of the disturbed area at any given time, the amount of activity, soil conditions, and meteorological conditions. Fugitive-dust emissions from construction activities would be spread throughout the entire 336-acre CEDHSP area, as opposed to being concentrated at a single location. Despite the variability in emissions, numerous control measures can be reasonably implemented to significantly reduce construction fugitive-dust emissions. EDCAQMD CEQA Guidelines consider construction-dust impacts to be less than significant with implementation of BMPs. Mitigation Measure AQ-2d outlines these BMPs, which are required to reduce construction-related fugitive dust to a less-than-significant level.

The primary source of operational PM would be vehicles driving on paved and unpaved roads. These emissions would be spread over numerous roads throughout the County and region. Implementation of numerous CEDHSP policies will reduce operational vehicle trips, and, thus, road dust; these include Policy 8.1 (Minimize off-street parking), Policy 8.2 (Provide bicycle parking), Policy 8.3 (Provide parking for low-emitting vehicles), Policy 8.4 (Install plug-in electric vehicle charging stations), Policy 8.5 (Pre-wire residential parking areas for future electric vehicles), and Policy 8.10 (Create a transportation management association). CEDHSP design guidelines also promote an internally linked pedestrian and bicycle network and traffic-calming measures to encourage people to walk and bicycle instead of using a motorized vehicle. CEDHSP policies collectively represent best-available control strategies for reducing operational VMT and associated road dust that could result from buildout of a long-term specific plan. With implementation of CEDHSP policies, localized PM emissions would be less than significant and would not expose receptors to substantial pollutant concentrations or risks.

### Localized Carbon Monoxide

Development resulting from implementation of the proposed project could also potentially create new localized CO hot spots from changes in vehicle activity. As shown in Table 3.2-7, most operational CO emissions would be generated by area sources. Landscaping equipment, which would contribute most of the CO emissions from area sources, would be spread among new development throughout the plan area and would not be concentrated at a single location. CEDHSP Policies 8.50 and 8.51 prohibit open-hearth wood-burning stoves and fireplaces.

New vehicle trips from CEDHSP buildout would add to existing intersection volumes and congestion. While CO emissions from vehicles have declined significantly in the past thirty years due to improvements in engine technology and strengthening of emissions standards, CO can concentrate locally when vehicles idle or move slowing. Potential impacts related to localized CO from mobile sources are typically determined by estimating CO concentrations from the most project-affected intersections, where the concentrations would be the greatest. Traffic generated by the proposed project would have the potential to create CO hot spots at nearby roadways and intersections. Buildout traffic conditions were modeled to evaluate CO concentrations relative to the federal and state air quality standards (see Table 3.2-1). CO concentrations were modeled at the following study area intersections, as identified in the transportation impact assessment for the proposed project (Appendix L in the Second Partial Recirculated DEIR). These intersections generally represent the intersections with the highest peak-hour evening traffic volumes or intersection delay under existing, near-term, and cumulative conditions.

- Green Valley Road/Francisco Drive
- El Dorado Hills Boulevard/Francisco Drive
- El Dorado Hills Boulevard/Saratoga Way/Park Drive
- Latrobe Road/Town Center Boulevard

Table 3.2-10, which presents the results of the CO hot-spot modeling, indicates that CO concentrations are not expected to contribute to any new localized violations of the 1-hour or 8-hour ambient air quality standards. Consequently, implementation of project would not result in CO concentrations in excess of the health-protective NAAQS or CAAQS, and, therefore, would not expose sensitive receptors to significant pollutant concentrations that could result in adverse health effects. This impact would be less-than-significant.

**Table 3.2-10. Modeled Carbon Monoxide Concentrations at Modeled Intersections**

Intersection	RE <sup>a</sup>	1-hr <sup>b, c</sup>	8-hr <sup>b, d</sup>
Green Valley Road/Francisco Drive	1	3.4	0.3
	2	3.4	0.3
	3	3.5	0.4
	4	3.4	0.3
El Dorado Hills Boulevard/ Francisco Drive	5	3.3	0.2
	6	3.3	0.2
	7	3.4	0.3
	8	3.5	0.4



Intersection	RE <sup>a</sup>	1-hr <sup>b, c</sup>	8-hr <sup>b, d</sup>
	9	3.4	0.3
Latrobe Road/Town Center Boulevard	10	3.6	0.4
	11	3.5	0.4
	12	3.6	0.4
	13	3.5	0.4
Latrobe Road/Town Center Boulevard	14	3.6	0.4
	15	3.5	0.4
	16	3.8	0.6

Source: ICF Modeling (Appendix B).

<sup>a</sup> Receptors 1 through 16 were placed 3 meters from the traveled way at each intersection corner.

<sup>b</sup> Background concentrations of 3.0 and 0 parts per million were added to the modeling 1- and 8-hour results, respectively.

<sup>c</sup> The federal and state 1-hour standards are 35 and 20 parts per million, respectively.

<sup>d</sup> The federal and state 8-hour standards are 9 and 9.0 parts per million, respectively.

hr = hour; RE = receptor.

## Conclusion

The CEDHSP would not expose sensitive receptors to substantial criteria pollutant concentrations with implementation of CEDHSP policies and Mitigation Measures AQ-2a through AQ-2d and GHG-1. Accordingly, this impact would be a less-than-significant impact with mitigation.

**Mitigation Measure AQ-2a: Use low-VOC coatings during construction.**

**Mitigation Measure AQ-2b: Implement BMPs to reduce construction-related exhaust emissions during early construction.**

**Mitigation Measure AQ-2c: Require advanced off-road engines and newer onsite on-road trucks.**

**Mitigation Measure AQ-2d: Implement EDCAQMD fugitive-dust control measures and submit a Fugitive Dust Control Plan.**

**Mitigation Measure GHG-1: Implement BMPs to reduce construction-generated GHG emissions.**

## Impact AQ-3d: Expose sensitive receptors to naturally occurring asbestos and associated health risks during construction (less than significant with mitigation)

Disturbance of rock and soil that contain NOA can result in exposure of the public to health risks from inhalation of NOA-containing dust. As shown in Figure 3.2-1, portions of the proposed project would lie within areas known to contain asbestos. Youngdahl Consulting Group completed an assessment of NOA for the Pedregal and Serrano Westside planning areas. NOA traces (i.e., less than 0.25 percent) of NOA were found in 4 of 11 samples of rock and soil collected from test pits in the Pedregal area (Youngdahl Consulting Group 2012a). NOA traces (i.e., less than 0.25 percent) were also identified in 6 of 14 samples of rock and soil collected from the test pits in the Serrano Westside area (Youngdahl Consulting Group 2012b).

The presence of soil that contains NOA does not guarantee that construction activities would result in increased incidence of asbestos-related illness. Nevertheless, earthmoving activities during construction could expose NOA and increase the potential for individuals to become exposed. This would be a potentially significant impact. Compliance with EDCAQMD's Rule 223-2 and periodic monitoring of earthwork activities for NOA would minimize the public's exposure to NOA (Youngdahl Consulting Group 2012a, 2012b). Rule 223 also requires specific actions, such as capping with clean material if NOA is present in the near-surface or at finish-grade elevations. With implementation of Mitigation Measure AQ-3, the impact of NOA exposure would be reduced to a less-than-significant level.

**Mitigation Measure AQ-3: Submit and implement an Asbestos Dust Mitigation Plan in accordance with EDCAQMD Rule 223-2.**

For portions of the project within an NOA area, the project applicant will prepare and submit an Asbestos Dust Mitigation Plan to EDCAQMD that is consistent with EDCAQMD Rule 223-2. The final Asbestos Dust Mitigation Plan will address specific construction activities, locations, and timing information that are not yet available and will be submitted to and approved by EDCAQMD prior to the start of any construction activity. The County will not issue a grading permit for any phase of construction until it has received the approved Asbestos Dust Mitigation Plan. Compliance with the approved plan will be documented, at the applicant's expense, through periodic monitoring and annual reporting to the County. The Asbestos Dust Mitigation Plan will contain all of the following information:

- Contact information for the party responsible for plan preparation and application of dust-control measures
- Plot plan showing project type, location, acres, and area to be disturbed
- Expected start and completion dates of dust-generating and soil-disturbing activities to be performed on site
- Actual and potential sources of fugitive-dust emissions on site and the location of bulk material-handling and storage areas, paved and unpaved roads, entrances and exits where carryout/trackout may occur, and traffic areas
- BMP (Rule 223-2, Table 1 through 4) or other effective measures for:
  - Construction
  - Bulk material handling
  - Carryout and trackout management
  - Blasting activities
- Dust-control measures if operations are large in scale (Rule 223-2, Table 5 and 6)
- List of specific control measures for chemical dust suppressants
- Surface treatments and/or control measures for material carryout, trackout, and sedimentation where unpaved and/or access points join paved roads
- A statement indicating how often the items specified in Section 223-2.9 (Recordkeeping and Reporting Requirements), and any other items identified in the plan, will be reported to EDCAQMD

The Asbestos Dust Mitigation Plan will include contingency plans for the discovery of previously unidentified asbestos in concentrations triggering special capping requirements for school sites (as required by DTSC) that EDCAQMD will approve before construction. A geologist experienced in the visual assessment for NOA, or for conditions likely to contain NOA, will periodically observe all earthwork. To allow for the determination of possible final capping requirements, a certified engineering geologist will perform additional NOA evaluation during grading. Results of the evaluation will be reported to and approved by EDCAQMD.

**Impact AQ-4: Result in other emissions (such as those leading to odors) that adversely affect a substantial number of people (less than significant)**

Potential odor sources during construction activities may include diesel exhaust from heavy-duty equipment and architectural-coating emissions. Construction-related operations near existing receptors would be temporary in nature, and construction activities would not be likely to result in nuisance odors that would violate EDCAQMD Rule 205.

Potential odor sources from project operations could include diesel exhaust from ongoing trash pick-up and the use of architectural coatings during routine maintenance; limited odors may also result from residential cooking appliances (e.g., range hood vents). These odors are expected to be minor and are not likely to dominate ambient odors that the surrounding environment generates, which includes adjacent residential and commercial land uses, as well as traffic on US 50. Moreover, EDCAQMD does not consider the land uses associated with the proposed project to contain facilities with the potential to result in nuisance odors.

Project operations would not generate nuisance odors, and it is expected that new residences would not be exposed to nuisance odors that the EID El Dorado Hills WWTP produces because the planning areas are at least a mile away, and EID has installed an odor-control system at the WWTP.

Based on the above analysis, neither construction nor operation of the project would result in new or worsened odors that would affect a substantial number of people, and impacts would be less than significant.

**Impact AQ-5: Result in a cumulatively considerable net increase of any criteria pollutant, expose sensitive receptors to substantial pollutant concentrations, or generate odors as a result of construction and operations of offsite improvements (less than significant with mitigation)**

**Construction**

Construction criteria pollutant emissions for the Park Drive extension, potential Silva Valley Parkway connection, Pedregal water lines, and recycled water line are included in the emissions reported in Impact AQ-2a (Table 3.2-5 and Table 3.2-6). On an individual basis, with implementation of Mitigation Measures AQ-2b through AQ-2d and GHG-1, none of the offsite improvements would result in emissions that would exceed thresholds. As such, criteria pollutant emissions would not be expected to contribute a significant level of air pollution such that regional air quality within the MCAB would be degraded. Accordingly, with implementation of Mitigation Measures AQ-2b through AQ-2d and GHG-1, construction-generated criteria pollutant emissions would result in a less-than-significant impact.

Construction activities have the potential to exposure receptors to TACs and disturb rock and soil that could contain NOA (if the offsite improvements are in areas known to contain asbestos). Although DPM would be generated during construction, most improvements would be completed within a few months, and no more than 2 years. Mitigation Measures AQ-2b and AQ-2c and GHG-1 would also reduce DPM emissions from off-road equipment. Compliance with EDCAQMD Rule 223-2 and implementation of Mitigation Measures AQ-2d and AQ-3 would reduce the impact of NOA exposure to a less-than-significant level by requiring soil testing before the onset of soil-disturbing activities, as would implementation of NOA control measures (i.e., BMPs) and periodic monitoring if NOA were present.

**Mitigation Measure AQ-2b: Implement BMPs to reduce construction-related exhaust emissions during early construction.**

**Mitigation Measure AQ-2c: Require advanced off-road engines and newer onsite on-road trucks.**

**Mitigation Measure AQ-2d: Implement EDCAQMD fugitive-dust control measures and submit a Fugitive-Dust Control Plan.**

**Mitigation Measure AQ-3: Submit and implement an Asbestos Dust Mitigation Plan in accordance with EDCAQMD Rule 223-2.**

**Mitigation Measure GHG-1: Implement BMPs to reduce construction-generated GHG emissions.**

## **Operation**

It is anticipated that operation of the recycled water line and Pedregal water lines would not result in a significant impact related to TACs or criteria pollutant emissions because operation of the facilities and infrastructure are not anticipated to generate substantial TAC sources or materially affect regional VMT. The proposed pedestrian crossings from the La Borgata and Raley's shopping complex would consist of wooden bridges, which would not involve a substantial amount of construction activities that would generate TACs or criteria pollutant emissions or generate odors, and their exclusive use for nonmotorized activities would result in no TAC or criteria pollutant emissions.

Criteria pollutant emissions associated with the use of offsite utility and roadway improvements (e.g., extension of Park Drive to the Westside Roundabout, Silva Valley Parkway) were included in the analysis of project emissions. Additional minor emissions would be associated with operations and maintenance (O&M) activities for the water lines and roadways that are not included in the analysis of project operational emissions. However, O&M vehicle trips to service the water lines and roadways would amount to a limited number of trips and would not contribute an appreciable amount of emissions. The offsite improvements are not anticipated to generate significant levels of odors. Accordingly, impacts would be less than significant.

## 3.6 Greenhouse Gas Emissions

GHGs are gaseous compounds that limit the transmission of Earth's radiated heat out to space. GHGs are an important consideration for construction of the CEDHSP because these emissions can contribute to global climate change. Climate change is a global problem, and GHGs are global pollutants, unlike criteria air pollutants (e.g., ozone precursors), which are primarily pollutants of regional and local concern. Given the long atmospheric lifetimes of GHGs, GHGs emitted by many sources worldwide accumulate in the atmosphere. No single emitter of GHGs is large enough to trigger global climate change on its own. Rather, climate change is the result of the individual contributions of countless past, present, and future sources. Thus, GHG impacts are inherently cumulative, and the study area for impacts on GHGs includes the entire global sand state atmospheres.

This section discusses applicable GHG regulations as they pertain to the CEDHSP and defines key GHG emissions and their current concentrations within the study area. It describes the GHG impacts, if any, that would result from implementation of the CEDHSP and provides mitigation for significant impacts, where feasible. Impacts related to air quality are described in Section 3.2, *Air Quality*.

### 3.6.1 Existing Conditions

#### 3.6.1.1 Regulatory Setting

This section summarizes international, federal, state, and local regulations related to GHG emissions and climate change that are applicable to the CEDHSP.

##### International

In 2015, the 21st session of the Conference of Parties (COP21) took place in Paris, France. The session included representatives from 196 parties to the United Nations Framework Convention on Climate Change. The outcomes from the Paris Agreement at COP21 include, but are not limited to, limiting global temperature increase well below 2 degrees Celsius (°C), establishing binding commitments by all parties to make nationally determined contributions (NDC), pursuing domestic policies aimed at achieving NDCs, and requiring regular reporting by all countries on their emissions and progress made toward implementing and achieving their NDCs. At the 27th session of the Conference of Parties (COP27) in November 2022, parties in the Paris Agreement agreed to revisit and strengthen their NDCs by the end of 2023.

The Under2 Coalition is an international coalition of jurisdictions that signed the Global Climate Leadership Memorandum of Understanding (Under2 MOU), which aims to limit global warming to 2°C, limit GHGs to below 80–95-percent below 1990 levels, and/or achieve a per-capita annual emissions goal of less than 2 metric tons by 2050. The Under2 MOU has been signed or endorsed by 135 jurisdictions (including California) that represent 32 countries and 6 continents.

##### Federal

President Joe Biden recently signed several federal Executive Orders (EO) related to GHG emissions and climate resiliency. EO 13990, signed in January 2021, set a national goal of achieving a 50- to 52-percent reduction from 2005 levels in economy-wide net GHG pollution by 2030. EO 14057, signed in December 2021, requires federal agencies to develop strategic processes for achieving, among

other things, carbon-free electricity by 2030 and 100-percent zero-emission vehicle acquisitions by 2035. President Joe Biden has also signed two bills—the Infrastructure Investment and Jobs Act (2021) and Inflation Reduction Act (2022)—that provide funding for infrastructure improvements that will reduce GHG emissions and bolster resilience to climate change. Despite these actions, there is currently no federal law or legislatively mandated national GHG-reduction target.

## State

California has adopted statewide legislation addressing various aspects of climate change and GHG-emissions mitigation. The legislation establishes a broad framework for the state’s long-term GHG-reduction and climate change–adaptation program. Various California Governors have also issued several EOs related to the state’s evolving climate-change policy. Summaries of key policies, regulations, and legislation at the state level that are relevant to the CEDHSP are described below.

### Statewide GHG Emission Targets and the Climate Change Scoping Plan

#### ***Executive Order S-03-05***

California EO S-3-05 set forth a series of target dates by which statewide emissions of GHGs need to be progressively reduced, as follows.

- By 2010, reduce GHG emissions to 2000 levels (approximately 457 million metric tons of carbon dioxide [CO<sub>2</sub>] equivalent [CO<sub>2</sub>e]).
- By 2020, reduce emissions to 1990 levels (approximately 427 million metric tons CO<sub>2</sub>e).
- By 2050, reduce emissions to 80-percent below 1990 levels (approximately 85 million metric tons CO<sub>2</sub>e).

State EOs are binding only on state agencies. Accordingly, California EO S-3-05 guides state-agency efforts to control and regulate GHG emissions but has no direct binding effect on local government or private actions. The Secretary of the California Environmental Protection Agency is required to report to the Governor and California State Legislature biannually on the impacts of global warming on California, mitigation and adaptation plans, and progress made toward reducing GHG emissions to meet the targets established in EO S-3-05.

#### ***Assembly Bill 32***

AB 32 (Health and Safety Code § 38500 *et seq.*) codified the state’s 2020 GHG-emissions target by requiring that the state’s global warming emissions be reduced to 1990 levels by 2020. Since adoption of the act, CARB, the California Public Utilities Commission (CPUC), California Energy Commission (CEC), and the Building Standards Commission have been developing regulations that will help meet the goals of AB 32 and EO S-03-05. The 2008 *Climate Change Scoping Plan for AB 32* (2008 Scoping Plan) identified specific measures to reduce GHG emissions to 1990 levels by 2020 and required CARB and other state agencies to develop and enforce regulations and other initiatives for reducing GHGs. Specifically, the 2008 Scoping Plan articulates a key role for local governments, recommending that they establish GHG-reduction goals for both their municipal operations and the community consistent with those of the state. The *First Update to the AB 32 Scoping Plan* (2014 First Update) was released in February 2014 and includes revised GHG-reduction estimates based on updated statewide GHG inventories. The update also discusses the need for continued GHG-reduction progress post-2020 (CARB 2014).

***Senate Bill 32 and Assembly Bill 197***

Senate Bill (SB) 32 required CARB to ensure that statewide GHG emissions are reduced to at least 40-percent below 1990 levels by 2030. The companion bill, AB 197, created requirements to form a Joint Legislative Committee on Climate Change Policies, required CARB to prioritize direct emission reductions and consider social costs when adopting regulations to reduce GHG emissions beyond the 2020 statewide limit, required CARB to prepare reports on sources of GHGs and other pollutants, established 6-year terms for voting members of CARB, and added two legislators to CARB as nonvoting members.

Pursuant to SB 32, CARB updated the 2008 Scoping Plan to address implementation of GHG-reduction strategies to meet the 2030 reduction target. The *2017 Scoping Plan Update* (2017 Scoping Plan), approved in December 2017, continued the discussion from the 2008 Scoping Plan and 2014 First Update of identifying scientifically backed policies within six of the state's economic sectors to reduce GHGs. The 2017 Scoping Plan included various elements, such as doubling energy-efficiency savings, increasing the low carbon fuel standard (LCFS) from 10 to 18 percent, adding 4.2 million zero-emission vehicles on the road, implementing the Sustainable Freight Strategy, implementing a post-2020 Cap-and-Trade program, creating walkable communities with expanded mass transit and other alternatives to traveling by car, and developing an Integrated Natural and Working Lands Action Plan to protect land-based carbon sinks.

***Executive Order B-55-18***

EO B-55-18 acknowledged the environmental, community, and public health risks posed by future climate change and further recognized the climate stabilization goal that 196 parties adopted under the Paris Agreement. Based on the worldwide scientific agreement that carbon neutrality must be achieved by the mid-twenty-first century, EO B-55-18 established a new state goal to achieve carbon neutrality as soon as possible, and no later than 2045, and to achieve and maintain net negative emissions thereafter. The EO charged CARB with developing a framework for implementing and tracking progress toward these goals. This EO extended EO S-3-05 but is only binding on state agencies.

***Assembly Bill 1279***

AB 1279 (Health and Safety Code Section 38562.2) codified the state's 2045 GHG emissions target expressed under EO B-55-18. The bill required California to achieve net-zero GHG emissions (i.e., reach a balance between the GHGs emitted and removed from the atmosphere) no later than 2045 and to achieve and maintain net-negative GHG emissions from then on. It also mandated an 85-percent reduction in statewide anthropogenic (i.e., human-made) GHG emissions (from 1990 levels) by 2045. AB 1279 recognized that meeting these targets would require direct GHG-emission reductions and removal of CO<sub>2</sub> from the atmosphere, as well as a nearly complete transition from fossil fuels. As such, the bill directed CARB to work with relevant state agencies to ensure that Scoping Plan updates include measures that put California on a trajectory to achieve these targets. It also tasked CARB with implementing strategies that facilitate CO<sub>2</sub>-removal solutions and carbon capture, utilization, and storage technologies. To evaluate the state's progress, AB 1279 required that CARB report progress toward these targets annually to the California State Legislature. The bill directed that CARB, by 2035, must assess the feasibility and tradeoffs of reducing statewide anthropogenic GHG emissions to 85-percent below 1990 levels by 2045 and report its findings to the California State Legislature.

Pursuant to EO B-55-18 and AB 1279, CARB updated the 2017 Scoping Plan to address implementation of GHG-reduction strategies to meet the 2045 reduction target. The *2022 Scoping Plan for Achieving Carbon Neutrality* (2022 Scoping Plan), approved in November 2022, built on GHG-reduction measures detailed in the previous Scoping Plans and included additional measures to capture and store atmospheric carbon through the state's natural and working lands, using a variety of mechanical approaches. By incorporating GHG-emissions reduction and carbon-capture methods, the 2022 Scoping Plan identified a technologically feasible, cost-effective path to achieve carbon neutrality by 2045 (CARB 2022a).

### **Vehicle Efficiency, Vehicle Miles Traveled, and Zero-Emissions/Low-Carbon Vehicle Standards**

#### ***Executive Order S-01-07, Low Carbon Fuel Standard***

California EO S-01-07 mandated: (1) that a statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020 (achieved); and (2) that a LCFS for transportation fuels be established in California. The EO initiated a research and regulatory process at CARB. In 2018, CARB passed amendments to the LCFS that set a target of reducing fuel-carbon intensity by 20 percent by 2030, compared to a 2010 baseline.

#### ***Assembly Bill 1493***

With the passage of AB 1493, also known as Pavley I, in 2002, California launched an innovative and proactive approach to dealing with GHG emissions and climate change at the state level. AB 1493 required CARB to develop and implement regulations to reduce automobile and light-truck GHG emissions. These stricter emissions standards were designed to apply to automobiles and light trucks beginning with model year 2009. Although litigation challenged these regulations, and USEPA initially denied California's related request for a waiver, the waiver request was granted. In 2012, additional strengthening of the Pavley I standards (referred to as the Advanced Clean Cars measure) was adopted for vehicle model years 2017–2025. Together, the two standards are expected to increase average fuel economy to roughly 54.5 miles per gallon in 2025.

#### ***Advanced Clean Cars II***

In August 2022, CARB voted to approve the Advanced Clean Cars II proposal, which would dramatically reduce emissions from passenger cars for model years 2026 through 2035. This goal requires an increasing proportion of new vehicles to be zero-emission vehicles, with the goal of 100-percent zero-emissions for new vehicles sold by 2035 (CARB 2022b).

#### ***Advanced Clean Truck Regulation***

As discussed in Section 3.2, *Air Quality*, CARB adopted the Advanced Clean Truck Regulation in October 2020 to accelerate a large-scale transition of zero-emission medium- and heavy-duty vehicles. The regulation requires the sale of zero-emission medium- and heavy-duty vehicles as an increasing percentage of total annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales would need to be 55 percent of Class 2b–3 truck sales, 75 percent of Class 4–8 straight truck sales, and 40 percent of truck tractor sales. By 2045, every new medium- and heavy-duty truck sold in California will be zero-emission.



### ***Senate Bill 375, Sustainable Communities Strategy***

SB 375<sup>14</sup> (September 2008) provided a planning process that coordinated land use planning, regional transportation plans (RTP), and funding priorities to help California meet the GHG reduction goals established in AB 32. SB 375 required that RTPs developed by MPOs include an SCS. The goal of the SCS is to reduce regional VMT through land use planning and consequent transportation patterns. CARB first released the regional targets in September 2010 and updated them in March 2018.

SACOG is the MPO for the Sacramento region, including the County’s western slope. SACOG adopted its SB 375–compliant 2020 MTP/SCS in November 2019 (SACOG 2019). SB 375 also includes provisions for streamlined CEQA review for certain types of mixed-use and transit priority projects that meet the specific criteria that SB 375 established. Per State CEQA Guidelines Section 15183.5, quantified plans, such as the MTP/SCS EIR, “may be used in the cumulative impacts analysis of later projects.” More specifically, “later project-specific environmental documents may tier from and/or incorporate by reference” the “programmatic review” conducted for the GHG-reduction plan. Section 15183.5 also states,

An environmental document that relies on a greenhouse gas reduction plan for a cumulative impacts analysis must identify those requirements specified in the plan that apply to the project, and, if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project.

Environmental documents prepared for projects that are consistent with the MTP/SCS EIR are not required to reference, describe, or discuss the following in their GHG impact analysis.

1. Growth-inducing impacts
2. A reduced-density alternative to address impacts on transportation or climate change of increased car and truck VMT induced by the project
3. Any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network

No areas within the County have sufficient transit service to qualify for transit priority project streamlining introduced under SB 375 (SACOG 2019). However, mixed-use projects consistent with the MTP/SCS may qualify for CEQA streamlining and tier from the MTP/SCS EIR for their project-level GHG emissions analysis.

### ***Senate Bill 743***

SB 743 (July 2020) required revisions to the CEQA Guidelines that establish new impact-analysis criteria for the assessment of a project’s transportation impacts. The intent behind SB 743 and revising the CEQA Guidelines was to integrate and better balance the needs of congestion management, infill development, active transportation, and GHG-emissions reduction. OPR recommends that VMT serve as the primary analysis metric, replacing the existing criteria of delay and level of service. In 2018, OPR released a technical advisory outlining potential VMT significance thresholds for different project types. For example, it would be reasonable to conclude that residential and office projects demonstrating a VMT level that is 15-percent less than existing (i.e.,

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<sup>14</sup> California Government Code Sections 14522.1, 14522.2, 65080, 65080.01, 65400, 65583, 65584.01, 65584.02, 65584.04, 65587, and 65588, and Public Resources Code Sections 2161.3, 21155, and 21159.28.

2015–2018 average) conditions. With respect to retail land uses, any net increase of VMT may indicate a significant transportation impact.

### **Electricity Generation and Building Efficiency**

#### ***Senate Bills 1078, 107, 100, and 1020***

SB 1078 (2002) and SB 107 (2022),<sup>15</sup> *California's Renewables Portfolio Standard* (RPS), obligated investor-owned utilities, energy service providers, and community choice aggregations to procure an additional 1 percent of retail sales per year from eligible renewable sources until 20 percent is reached, no later than 2010 (achieved). CPUC and CEC are jointly responsible for implementing the program. SB X1-2 (2011)<sup>16</sup> set forth a target of procuring 33 percent of retail sales by 2020 (achieved).

SB 100<sup>17</sup> (2008) and SB 1020 (2022)<sup>18</sup> strengthened and extended California's RPS. Specifically, California utilities are required to generate 44 percent of their electricity from renewables by 2024 (SB 100), 50 percent by 2026 (SB 100), 52 percent by 2027 (SB 100), 60 percent by 2030 (SB 100), 90 percent by 2035 (SB 1020), 95 percent by 2040 (SB 1020), and 100 percent by 2045 (SB 100/SB 1020). SB 1020 also requires state agencies to rely on 100-percent renewable energy and zero-carbon resources to serve their own facilities by 2035.

#### ***California Energy Efficiency Standards for Residential and Non-Residential Buildings, Green Building Code, Title 24 Update***

California has adopted aggressive energy-efficiency standards for new buildings and is continuously updating its standards. In 2008, the California Building Standards Commission adopted the nation's first "green" building standards, which included standards for many aspects of the built environment apart from energy efficiency. The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code (24 CCR). Part 11 established voluntary standards that became mandatory under the 2010 edition of the Code. These standards involved sustainable site development, energy efficiency (in excess of California Energy Code requirements), water conservation, material conservation, and internal air contaminants.

On May 9, 2018, CEC adopted the 2019 Building Energy Efficiency Standards, which took effect on January 1, 2020. The 2019 standards mandate higher efficiency levels and rooftop solar-photovoltaic (PV) systems for all new residential buildings constructed in 2020 and beyond. The 2019 standards will result in residential buildings that are, on average, 7 percent more energy efficient than residential buildings built under the 2016 standards (i.e., 53 percent of solar-PV systems are included). Nonresidential buildings will be 30-percent more energy efficient because the standards will update indoor and outdoor lighting to make maximum use of light-emitting diode (LED) technology.

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<sup>15</sup> Public Resources Code Sections 25620.1, 25740, 25470.5, 25741, 25742, 25743, 25744.5, 25746, and 25751 and Public Utilities Code Sections 387, 399.11, 399.12, 399.13, 399.14, 399.15, 399.16, 635, and 2854.

<sup>16</sup> Fish and Game Code Section 705; Public Resources Code Sections 25519.5, 25740, 25740.5, 25741, 25741.5, 25742, 25746, 25747, and 25751; and Public Utilities Code Sections 399.11, 399.12, 399.13, 399.14, 399.15, 399.16, 399.17, 399.18, 399.19, 399.20, 399.26, 399.30, 399.31, 454.5, 910, 911, and 1005.1.

<sup>17</sup> De León, Statutes of 2018, Public Utilities Code Sections 399.11, 399.15, and 399.30.

<sup>18</sup> Clean Energy, Jobs, and Affordability Act of 2022, Statutes of 2022, Public Utilities Code Sections 454.59 and 739.13.

The 2022 Building Energy Efficiency Standards, adopted on August 1, 2022, and effective January 1, 2023, strengthened and expanded the prior standards. Among other things, the 2022 standards established “electric-ready” requirements for new homes, expanded solar-PV and battery-storage requirements, strengthened ventilation standards, and encouraged the use of electric heat pumps.

***Senate Bill 350, De Leon (Clean Energy and Pollution Reduction Act of 2015)***

SB 350 was approved by the California State Legislature in September 2015 and signed by Governor Brown in October 2015. Its key provisions are to require the following by 2030: (1) an RPS of 50 percent (superseded by SB 100, as described above); and (2) a doubling of energy efficiency (i.e., electrical and natural gas) by 2030, including improvements to the efficiency of existing buildings. These mandates will be implemented by future CPUC and CEC actions.

**Resource Conservation**

***Assembly Bill 939 and Assembly Bill 341***

To minimize the amount of solid waste that must be disposed of in landfills, the California State Legislature passed the California Integrated Waste Management Act of 1989 (AB 939), effective January 1990. According to AB 939, all counties and cities were required to divert 25 percent of all solid waste from landfill facilities by January 1, 1995, and 50 percent by January 1, 2000. Through other statutes and regulations, this 50-percent diversion rate also applies to state agencies. In order of priority, waste-reduction efforts must promote source reduction, recycling and composting, and environmentally safe transformation and land disposal.

In 2011, AB 341 modified the California Integrated Waste Management Act and directed the California Department of Resources Recycling and Recovery (CalRecycle) to develop and adopt regulations for mandatory commercial recycling. The resulting Mandatory Commercial Recycling Regulation required that, on and after July 1, 2012, certain businesses that generate 4 cubic yards or more of commercial solid waste per week must arrange for recycling services. To comply with this requirement, businesses may either separate recyclables and self-haul them, or subscribe to a recycling service that includes mixed-waste processing. AB 341 also established a statewide recycling goal of 75 percent; under AB 939, the 50-percent disposal reduction mandate still applies for counties and cities.

***Assembly Bill 1826***

AB 1826 (2014) required businesses and public entities that generate 4 cubic yards or more of commercial solid waste and multifamily residential buildings of five units or more to arrange for organic-waste (e.g., food and lawn-care waste) recycling services and for local jurisdictions to implement organic-waste recycling programs. AB 1826 targeted the organic-waste stream to reduce GHGs and use the waste for more beneficial purposes, such as compost, mulch, and biofuel production. The law phased in requirements over time and exempted rural counties. In 2020, CalRecycle reduced the threshold to 2 cubic yards of solid waste.

***Senate Bill X7-7***

SB X7-7, the Water Conservation Act of 2009, set an overall goal of reducing per-capita urban-water use by 20 percent by December 31, 2020 (achieved). The state was required to make progress toward this goal by reducing per-capita water use by at least 10 percent by December 31, 2015 (achieved). SB X7-7 was an implementing measure of the AB 32 Scoping Plan Water Sector, which

will continue to be implemented beyond 2020. Reduction in water consumption reduces the energy necessary and the associated emissions to convey, treat, and distribute the water; it also reduces emissions from wastewater treatment.

### ***Senate Bill 1386***

SB 1386 (2003) declared it to be state policy that the protection and management of natural and working lands, as defined, is an important strategy in meeting the state's GHG-reduction goals and required all state agencies, departments, boards, and commissions to consider this policy when revising, adopting, or establishing policies, regulations, expenditures, or grant criteria relating to the protection and management of natural and working lands.

### **Short-Lived Climate Pollutants**

#### ***Senate Bill 605 and Senate Bill 1383***

SB 605 (2003) directed CARB, in coordination with other state agencies and local air districts, to develop a comprehensive Short-Lived Climate Pollutant (SLCP) Reduction Strategy. SB 1383 (2016) directed CARB to approve and implement the SLCP Reduction Strategy to achieve the following reductions in SLCPs.

- 40-percent reduction in methane (CH<sub>4</sub>) below 2013 levels by 2030
- 40-percent reduction in hydrofluorocarbon (HFC) gases below 2013 levels by 2030
- 50-percent reduction in anthropogenic black carbon below 2013 levels by 2030

The bill also established the following targets for reducing organic waste in landfills and CH<sub>4</sub> emissions from dairy and livestock operations.

- 50-percent reduction in organic waste disposal from the 2014 level by 2020
- 75-percent reduction in organic waste disposal from the 2014 level by 2025
- 40-percent reduction in CH<sub>4</sub> emissions from livestock manure management operations and dairy manure management operations below the dairy sector's and livestock sector's 2013 levels by 2030
- Final regulations to achieve the GHG-reduction goals expressed in SB 1383 were codified under CCR Title 14, Division 7, Chapter 3, and CCR Title 27, Division 2, Chapters 2, 3, and 4, in November 2020. The regulation went into effect on January 1, 2022.

#### ***Short-Lived Climate Pollutant Reduction Strategy***

CARB adopted the SLCP Reduction Strategy in March 2017 as a framework for achieving the CH<sub>4</sub>, HFC, and anthropogenic black carbon–reduction targets set by SB 1383. The SLCP Reduction Strategy included 10 measures to reduce SLCPs, which fit within a wide range of ongoing planning efforts throughout the state, including CARB's and CalRecycle's rulemaking on organic-waste diversion (discussed above).

### **Cap-and-Trade Program**

CARB adopted the Cap-and-Trade program in October 2011. The California Cap-and-Trade program is a market-based system with an overall emissions limit for affected emission sources. Affected sources include in-state electricity generators, hydrogen production, petroleum refining, and other

large-scale manufacturers, suppliers, and distributors of fuel. The original Cap-and-Trade program set a compliance schedule through 2020. AB 398 (2017) extended the program through 2030 and required CARB to make refinements, including establishing a price ceiling. Revenue generated from the Cap-and-Trade program is used to fund various programs. AB 398 established post-2020 funding priorities to include: (1) air toxics and criteria pollutants; (2) low- and zero-carbon transportation; (3) sustainable agricultural practices; (4) healthy forests and urban greening; (5) short-lived climate pollutants; (6) climate adaptation and resiliency; and (7) climate and clean energy research.

## Local

California's Scoping Plans do not provide an explicit role for local air districts in implementing AB 32, SB 32, and AB 1279, but they do state that CARB will work actively with air districts in coordinating emissions reporting, encouraging and coordinating GHG reductions, and providing technical assistance in quantifying reductions. The ability of air districts to control emissions (both criteria pollutants and GHGs) is provided primarily through permitting, but also through CARB's role as CEQA lead or commenting agency, the establishment of CEQA thresholds, and the development of analytical requirements for CEQA documents. EDCAQMD currently has not adopted rules, regulations, or significance thresholds for GHGs in accordance with the State CEQA Guidelines.

### 3.6.1.2 Environmental Setting

The unique chemical properties of GHGs enable them to become well-mixed within the atmosphere and transported over long distances. Consequently, unlike other resource areas that are primarily concerned with localized project impacts (e.g., within 1,000 feet of the project site), the global nature of climate change requires a broader analysis approach. The following subsections provide background information about global climate change and principal GHGs associated with implementation of the CEDHSP. Potential impacts of climate change on the study area are also identified.

#### Climate Change

The process known as the *greenhouse effect* keeps the atmosphere near Earth's surface warm enough for the successful habitation of humans and other life forms. The greenhouse effect is created by sunlight that passes through the atmosphere. Some of the sunlight striking Earth is absorbed and converted to heat, which warms the surface. The surface emits a portion of this heat as infrared radiation, some of which is re-emitted toward the surface by GHGs. Human activities that generate GHGs increase the amount of infrared radiation absorbed by the atmosphere, thus enhancing the greenhouse effect and amplifying the warming of Earth.

Increases in fossil-fuel combustion and deforestation have exponentially increased concentrations of GHGs in the atmosphere since the Industrial Revolution. Rising atmospheric concentrations of GHGs in excess of natural levels result in increasing global surface temperatures—a phenomenon commonly referred to as *global warming*. Higher global surface temperatures, in turn, result in changes to Earth's climate system, including increased ocean temperature and acidity, reduced sea ice, sea level rise, variable precipitation, and increased frequency and intensity of extreme weather events (IPCC 2007). Large-scale changes to Earth's system are collectively referred to as *climate change*.

The World Meteorological Organization and United Nations Environment Programme established the Intergovernmental Panel on Climate Change (IPCC) to assess scientific, technical, and socioeconomic information relevant to the understanding of climate change, its potential impacts, and options for adaptation and mitigation. The IPCC estimates that human-induced warming reached approximately 1°C above pre-industrial levels in 2017, increasing at 0.2°C per decade. Under the current NDCs of mitigation from each country until 2030, global warming is expected to rise to 3°C by 2100, with warming to continue afterward (IPCC 2018a). Large increases in global temperatures could have substantial adverse effects on the natural and human environments worldwide and in California.

## Greenhouse Gas Emissions and Reporting

The principle anthropogenic (i.e., human-made) GHGs contributing to global warming are CO<sub>2</sub>, CH<sub>4</sub>, nitrous oxide (N<sub>2</sub>O), and fluorinated compounds, including sulfur hexafluoride (SF<sub>6</sub>), HFCs, and perfluorocarbons (PFCs). Water vapor, the most abundant GHG, is not included in this list because its natural concentrations and fluctuations far outweigh its anthropogenic sources.

The primary GHGs of concern associated with the project are CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O. Minor amounts of HFCs, which are considered high global warming potential (GWP) GHGs, may also be generated by leaking air conditioners and refrigerators. Principal characteristics of these pollutants are discussed below.

- **Carbon dioxide** enters the atmosphere through fossil-fuel (i.e., oil, natural gas, and coal) combustion, solid-waste decomposition, plant and animal respiration, and chemical reactions (e.g., cement manufacturing). CO<sub>2</sub> is also removed from the atmosphere (or *sequestered*) when plants absorb it as part of their biological carbon cycle.
- **Methane** is emitted during the production and transport of coal, natural gas, and oil. CH<sub>4</sub> emissions also result from livestock and other agricultural practices and from the decay of organic waste in municipal solid-waste landfills.
- **Nitrous oxide** is emitted during agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste.
- **Hydrofluorocarbons** are human-made chemicals used in commercial, industrial, and consumer products and have high GWPs. HFCs are generally used as substitutes for ozone-depleting substances in automobile air conditioners and refrigerants.

Methods have been set forth to describe emissions of GHGs in terms of a single gas to simplify reporting and analysis. The most commonly accepted method of comparing GHG emissions is the GWP methodology defined in the IPCC (2007) reference documents. IPCC defines the GWP of various GHG emissions on a normalized scale that recasts all GHG emissions in terms of CO<sub>2</sub>e, which compares the gas in question to that of the same mass of CO<sub>2</sub> (CO<sub>2</sub> has a global warming potential of 1 by definition).

Table 3.6-1 lists the GWP of CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and HFCs and their lifetimes in the atmosphere.

**Table 3.6-1. Lifetimes and Global Warming Potentials of Key Greenhouse Gases**

Greenhouse Gas	Global Warming Potential (100 years)	Lifetime (years)
CO <sub>2</sub>	1	–
CH <sub>4</sub>	25	12

Greenhouse Gas	Global Warming Potential (100 years)	Lifetime (years)
N <sub>2</sub> O	298	114
HFCs	124 to 14,800	1-270

Source: CARB 2019a.

CH<sub>4</sub> = methane; CO<sub>2</sub> = carbon dioxide; HFCs = hydrofluorocarbons; N<sub>2</sub>O = nitrous oxide.

All GWPs used for CARB's GHG inventory and to assess attainment of the state's 2020 and 2030 reduction targets are considered over a 100-year timeframe (as shown in Table 3.6-1). However, CARB recognizes the importance of SLCPs and reducing these emissions to achieve the state's overall climate-change goals. SLCPs have atmospheric lifetimes on the order of a few days to a few decades, and their relative climate-forcing impacts, when measured in terms of how they heat the atmosphere, can be tens, hundreds, or even thousands of times greater than that of CO<sub>2</sub> (CARB 2017a). In recognition of their short-term lifespan and warming impact, SLCPs are measured in terms of CO<sub>2</sub>e using a 20-year time period. The use of GWPs with a time horizon of 20 years better captures the importance of the SLCPs and provides a clearer perspective on the speed at which SLCP-emission controls will affect the atmosphere relative to CO<sub>2</sub>-emission controls. The SLCP Reduction Strategy, discussed in Section 3.3.1.1., *Regulatory Setting*, addresses the three primary SLCPs: CH<sub>4</sub>, HFC gases, and anthropogenic black carbon. CH<sub>4</sub> has a lifetime of 12 years and a 20-year GWP of 72. HFC gases have lifetimes of 1.4 to 52 years and a 20-year GWP of 437 to 6,350. Anthropogenic black carbon has a lifetime of a few days to weeks and a 20-year GWP of 3,200 (CARB 2017a).

### Greenhouse Gas Reporting

A *GHG inventory* is a quantification of all GHG emissions and sinks<sup>19</sup> within a selected physical and/or economic boundary. GHG inventories can be performed on a large scale (e.g., for global and national entities) or on a small scale (e.g., for a building or person). Although many processes are difficult to evaluate, several agencies have developed tools to quantify emissions from certain sources. Table 3.66-2 outlines the most recent global, national, and statewide GHG inventories to help contextualize the magnitude of potential project-related emissions.

**Table 3.6-2. Global, National, and State Greenhouse Gas Emission Inventories**

Emissions Inventory	CO <sub>2</sub> e (metric tons)
2017 IPCC Global GHG Emissions Inventory	53,500,000,000
2020 USEPA National GHG Emissions Inventory	5,222,000,000
2020 CARB State GHG Emissions Inventory	369,200,000

Sources: IPCC 2018b; USEPA 2022; CARB 2023.

CARB = California Air Resources Board; CO<sub>2</sub>e = carbon dioxide equivalent; GHG = greenhouse gas; IPCC = Intergovernmental Panel on Climate Change; USEPA = U.S. Environmental Protection Agency.

## 3.6.2 Environmental Impacts

This section describes the impact analysis related to GHG emissions for the CEDHSP, the methods used to quantify GHG emissions, and the thresholds used to evaluate whether an impact would be significant. Measures to mitigate (i.e., avoid, minimize, rectify, reduce, eliminate, or compensate for) significant impacts accompany each impact discussion, when necessary.

<sup>19</sup> A *GHG sink* is a process, activity, or mechanism that removes a GHG from the atmosphere.

### 3.6.2.1 Methods of Analysis

This section is partially based on the Air Quality and GHG Technical Report (Ascent 2023) provided in Appendix A. Please refer to Appendix A for further information about the emissions quantification and analysis method.

#### Construction

Construction of the proposed project would generate short-term emissions of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O from mobile and stationary construction-equipment, employee-vehicle, and haul-truck exhaust. Water consumption for dust control would also generate indirect GHG emissions associated with water pumping and conveyance.

GHG emissions from construction were estimated using CalEEMod, version 2020.4.0, and SMAQMD's RCEM, version 9.0.0. Modeling inputs included project-specific land use types and sizes and construction phasing, timing and activities included in Chapter 2, *Project Description*, and summarized in the Air Quality and GHG Technical Report (Appendix A). Model defaults for all other assumptions were used for construction-emissions modeling. Buildout of the project was assumed to occur over an extended period, beginning in 2023, with full buildout anticipated around 2040.

Construction of the proposed project would result in the permanent conversion of riparian woodland, grasslands, and wetlands. Removal of this vegetation would reduce the carbon-sequestering capacity of the land. The resulting CO<sub>2</sub> loss was quantified using CalEEMod and the U.S. Department of Agriculture – Forest Service's i-Tree Planting Calculator (i-Tree), version 2.1.2, as described in the Air Quality and GHG Technical Report (Appendix A).

#### Operation

Operation of the proposed project would generate long-term emissions of GHGs. Primary sources of emissions would include vehicle exhaust, energy usage, water consumption, waste and wastewater generation, and area sources. Landscaping equipment and hearths are also area sources of GHG emissions. Energy sources include the combustion of natural gas, as well as the use and generation of electricity. Waste generation results in fugitive CH<sub>4</sub> and N<sub>2</sub>O emissions from the decomposition of organic matter. Water consumption results in indirect GHG emissions from the conveyance and treatment of water.

Operational CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O emissions were estimated using CalEEMod, version 2020.4.0, and a combination of project-specific information and model defaults.<sup>20</sup> Modeling inputs included land use types, sizes, and other project details (e.g., VMT), as described in the Air Quality and GHG Technical Report (Appendix A). For purposes of analysis, full buildout is assumed to occur by 2040. Additionally, operational modeling was conducted for project operations in both 2030 and 2045 to align with statewide milestone years for GHG targets (discussed further in Section 3.3.2.2, *Thresholds of Significance*).

Pursuant to the County's General Plan and County Code of Ordinance, the proposed project is required to mitigate all native oak tree impacts at a 1:1-inch ratio and all heritage oak trees at a 3:1-

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<sup>20</sup> Refrigeration and air conditioning units would also generate HFC emissions. These emissions are assessed qualitatively in Impact GHG-1.



inch ratio. Sequestered CO<sub>2</sub> resulting from tree replanting was quantified using i-Tree and the methods described in the Air Quality and GHG Technical Report (Appendix A).

### 3.6.2.2 Thresholds of Significance

#### CEQA Guidelines

In accordance with Appendix G of the State CEQA Guidelines, the proposed project would be considered to have a significant effect if it would result in any of the conditions listed below.

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.
5. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

State CEQA Guidelines do not indicate what amount of GHG emissions would constitute a significant impact on the environment. Instead, they authorize the lead agency to consider thresholds of significance that other public agencies have previously adopted or recommended or that experts recommend, provided that the decision of the lead agency to adopt such thresholds is supported by substantial evidence (State CEQA Guidelines Section 15064.4(a) and 15064.7(c)). A summary of the CEQA guidance regarding the analysis of GHG emissions is provided below.

#### CEQA Guidelines Section 15064.4(a)

State CEQA Guidelines Section 15064.4(a) indicates that CEQA requires a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate, or estimate the amount of GHG emissions resulting from a project, compare estimated emissions to a threshold that the lead agency deems appropriate (with evidence to support this threshold), and assess the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. This guideline gives the lead agency discretion about whether to quantify GHG emissions resulting from a project and/or rely on a qualitative analysis or performance-based standards.

State CEQA Guidelines Section 15064.4(a) does not indicate what amount of GHG emissions would constitute a significant impact on the environment. Instead, it authorizes the lead agency to consider thresholds of significance that other public agencies have previously adopted or recommended or that experts recommend, provided that the decision of the lead agency to adopt such thresholds is supported by substantial evidence.

#### CEQA Guidelines Section 15064.4(b)

State CEQA Guidelines Section 15064.4(b) requires a lead agency to consider the following factors.

- The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting.
- Whether the project GHG emissions exceed a threshold of significance that the lead agency determines applies to the project.
- The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. The lead agency must include substantial evidence linking statewide goals, strategies, and plans

to the project's findings and significance of impacts (added in response to *Center for Biological Diversity et al. vs. California Department of Fish and Wildlife, the Newhall Land and Farming Company*; see below).

#### **CEQA Guidelines Section 15064.4(c)**

State CEQA Guidelines Section 15064.4(c) states that a lead agency may choose a model or methodology to estimate GHG emissions that it considers most appropriate. The lead agency must support its selection of a model or methodology with substantial evidence and explain the limitations of the model or methodology.

#### **CEQA Guidelines Section 15183.5**

State CEQA Guidelines Section 15183.5 outlines measures that lead agencies can take to analyze and mitigate the significant effects of GHG emissions at a programmatic level, such as in a General Plan, Long-Range Development Plan, or in a separate plan (e.g., a climate action plan [CAP]) to reduce GHG emissions, so that later, project-specific environmental documents may tier from the prior analysis to determine significance.

### **Summary of Relevant Court Decisions**

The Courts have ruled on various matters related to GHG analyses in CEQA documents, which has helped define acceptable practices for adequate analysis of GHG emissions under CEQA, including setting thresholds, properly defining level of significances, and identifying mitigation measures. The Courts' decisions highlight that, depending on the circumstances of a given project, there are multiple ways to evaluate GHG-emissions impacts in CEQA documents. CEQA gives the lead agency discretion to quantify GHG emissions resulting from a project and/or rely on a qualitative analysis or performance-based standards, but the lead agency must support its decisions with substantial evidence and explain any limitations associated with the analysis. In addition, a lead agency's analysis should consider a timeframe that is appropriate for the project and must reasonably reflect evolving scientific knowledge and the current state regulatory schemes.

In the 2015 California Supreme Court decision in the *Center for Biological Diversity et al. vs. California Department of Fish and Wildlife, the Newhall Land and Farming Company* (November 30, 2015, Case No. S217763) (hereafter *Newhall Ranch*) the Court identified several potential approaches for determining significance of project-level GHG emissions. The decision affirmed that "thresholds only define the level at which an environmental effect 'normally' is considered significant; they do not relieve the lead agency of its duty to determine the significance of an impact independently." In the 2018 Court of Appeals decision in *Golden Door Properties/Sierra Club vs. County of San Diego* (September 28, 2018, 27 Cal.App.5th 892) (hereafter *Golden Door I*), the Court reinforced the message from the *Newhall Ranch* decision that analyses need to provide substantial evidence to support significance thresholds selected for use in the CEQA analysis. Both the *Newhall Ranch* and *Golden Door I* decisions demonstrated that use of statewide emission-reduction goals is one of the various potential thresholds and methodologies for evaluating project- or plan-level GHG emissions consistent with CEQA, use of statewide emission reduction goals is a "permissible criterion of significance" so long as substantial evidence and reasoned explanation is provided to close the analytical gap between the level of effort required at one scale (e.g., state level) to the level of effort required at another scale (e.g., proposed plan level). Other relevant cases have reinforced the discretion of lead agencies to select thresholds, provided they stay in line with the state of the science.

With respect to GHG mitigation, *Golden Door Properties, LLC v. County of San Diego* 50 Cal. App. 5th 467 (2020) (henceforth referred to as Golden Door II) added a level of increased rigor for the use of GHG credits as CEQA mitigation. In its decision, the California Fourth District Court of Appeal found that the Supplemental EIR prepared by San Diego County for its CAP violated CEQA because it relied on a mitigation measure that was improperly deferred and lacked enforceable performance criteria. San Diego County's mitigation measure for its CAP would reduce GHG emissions associated with its proposed General Plan amendment to net zero. The Court specifically questioned the use of GHG credits not approved by CARB and, in particular, those that could originate outside of California. The Court also criticized the measure's sole reliance on San Diego County staff to assess future GHG-credit feasibility and enforcement. Although the Court's Golden Door II decision did not object to the use of GHG credits as CEQA mitigation, it underscored the need for such mitigation to include enforceable performance standards and objective criteria to ensure that the GHG reductions from GHG credits are achieved.

Following are some of the Court's suggested approaches for analyzing GHG impacts under CEQA.

- **Consistency with a Qualified GHG Emissions Reduction Plan.** Use of a GHG emission-reduction plan is consistent with State CEQA Guidelines Sections 15183.5 or 15064.4 for a geographic area.
- **Performance Based.** Performance-based thresholds relate the required level of reduction at the project level to the statewide burden required to meet California's GHG goals.
- **Quantitative Thresholds.** Use of a quantitative threshold (e.g., the Bay Area Air Quality Management District's Bright Line threshold) identifies the level above which a project may contribute a significant amount of GHG emissions.
- **CEQA Streamlining.** Certain land use projects (e.g., residential, mixed-use, transit priority projects) could use SB 375's expressed allowance for tiering GHG emissions generated by light-duty vehicles from the environmental analysis conducted for the regional RTP/SCS.
- **Compliance with Regulatory Programs.** This approach would include an assessment of the project's compliance with regulatory programs designed to reduce GHGs from emissions-generating activities (e.g., energy consumption, transportation, water usage). To the extent that a project's design features comply with or exceed the regulations outlined in the Scoping Plans and adopted by CARB or other state agencies, the lead agency could appropriately rely on their use as showing that the project is reducing emissions consistently with state reduction targets and, thus, that emissions are less than significant.

Under any methodology, if GHG emission impacts were still significant after the adoption of all feasible mitigation measures and consideration of project alternatives, then the lead agency may adopt a statement of overriding considerations with the appropriate findings.

### **Applicability of Available Thresholds**

The following sections discuss the threshold approaches that the Courts recommended and CEQA supports and analyze their applicability to the operational-emissions analysis for the proposed project.

### **Compliance with a Qualified Greenhouse Gas–Reduction Strategy**

OPR acknowledges that the California State Legislature encourages lead agencies to tier or streamline their environmental documents whenever feasible and that GHG emissions may be best analyzed and mitigated at the programmatic level (OPR 2018a). A qualified plan may be used in the cumulative-impact analysis for later projects when the analysis “identifies those requirements specified in the plan that apply to the project.” For a GHG-reduction plan to be considered a qualified plan, it must meet certain criteria established under State CEQA Guidelines Sections 15183.5(b) and 15064.4, also specified above. Consequently, if a project is consistent with a local CAP that was created to meet that area’s fair-share reductions toward the AB 32 GHG target for 2020, then the project would be considered consistent with statewide GHG reduction goals for 2020. Additionally, if a CAP were adopted that was consistent with the state’s overall goals for post-2020, including the downward trajectory as clarified in SB 32 and EO S-03-05, and a project is consistent with that CAP, then the project would be considered consistent with the state’s post-2020 GHG-emission strategy. State CEQA Guidelines Section 15183.5 also specifies that the project’s CEQA analysis “must identify those requirements specified in the plan that apply to the project, and, if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project.”

The County does not have an adopted CAP or similar program-level GHG-reduction document. Therefore, compliance with a qualified GHG-reduction strategy, such as a CAP, is not appropriate for evaluating GHG impacts from the CEDHSP.

### **Performance Based**

Performance-based thresholds are based on a percentage reduction from a projected future condition; for example, reducing future business-as-usual (BAU) emissions to meet the SB 32 target (40-percent below 1990 levels) through a combination of state measures, project design features (e.g., renewable energy), or mitigation.

Based on the Court’s reasoning in the Newhall Ranch decision, relating a given project to the achievement of state reduction targets may require adjustments to CARB’s statewide BAU model to not only isolate new development emissions, but also consider unique geographic conditions and operational characteristics that may affect the performance of reduction measures in certain locations. To date, this type of adjustment to the statewide BAU target has not been performed and, therefore, is not appropriate for the proposed project’s analysis. The primary value of a performance-based target, as indicated in the Newhall Ranch decision, is that it can provide a scenario by which to evaluate the effectiveness of a project’s reduction efficiency relative to an unmitigated condition. As such, future-year targets can be used to benchmark performance, using either statewide or regional emission targets, to determine a project’s fair share of mitigation. Accordingly, use of a BAU threshold is not appropriate for evaluating GHG impacts from the CEDHSP.

### **Quantitative Thresholds**

#### ***Numerical Bright Line***

Numerical Bright Line thresholds identify the point at which additional analysis and mitigation of project-related GHG-emission impacts is necessary. Currently, Bright Line thresholds have been developed for commercial projects, residential projects, and stationary source projects. Commercial and residential Bright Line thresholds are typically based on a market-capture rate or a gap

analysis,<sup>21</sup> which is tied back to statewide reduction targets. These Bright Line thresholds reflect regional or local land use conditions, particularly residential and commercial density and access to transit. For example, SMAQMD's adopted Bright Line threshold for 2020 of 1,100 metric tons of CO<sub>2</sub>e and their post-2020 operational threshold, which is also 1,100 metric tons of CO<sub>2</sub>e, captures land use conditions present in Sacramento County. It does not reflect conditions in other areas of the state, including the County.

A numerical Bright Line value based solely on County emissions sources does not exist. Although development conditions in Sacramento County may be similar to those in the County, SMAQMD's adopted thresholds identify projects that would result in sufficiently low GHG emissions to be less than cumulatively considerable without mitigation. These thresholds, albeit potentially appropriate for a single project-level analysis, were not devised to include emissions associated with an entire specific plan (e.g., the proposed project). Consequently, SMAQMD's numeric thresholds are not appropriate for evaluating GHG impacts from the CEDHSP.

### ***Efficiency Based***

Another type of quantitative threshold is an efficiency-based threshold. Efficiency-based thresholds represent the GHG efficiency needed for development to achieve California's GHG-emissions targets. Although the Newhall Ranch decision did not specifically recommend the efficiency-based approach, the ruling did note that numerical threshold approaches may be appropriate for determining significance of GHG emissions and emphasized the consideration of GHG efficiency. Efficiency-based thresholds allow lead agencies to analyze projects of various types, sizes, and locations equally and determine whether a project is consistent with the state's reduction goals. Efficiency-based thresholds for a residential project can be expressed on a per-capita basis, for an office project on a per-employee basis, or for a mixed-use project on a per service population (i.e., the sum of jobs and residents) basis.

CARB (2017b) recommends statewide efficiency targets of no more than 6 metric tons of CO<sub>2</sub>e per capita by 2030 and no more than 2 metric tons of CO<sub>2</sub>e per capita by 2050. These targets were derived based on total statewide emissions from all emission categories (including emissions from stationary and industrial sources) and the reductions needed to achieve California's 2030 statewide target under SB 32 and the EO S-3-05 reduction goal of 80-percent below 1990 levels by 2050. CARB's 2050 efficiency target is consistent with the Under2 MOU, which commits signatories to reducing their GHG emissions to 2 metric tons CO<sub>2</sub>e per capita by 2050. CARB's per-capita efficiency metrics are useful benchmarks for assessing the proposed project's consistency with the emissions levels defined by California, as needed to achieve the state's fair share–reduction contribution to limit global warming to below 2°C (i.e., the Paris Agreement).

Because CARB's per-capita efficiency targets are based on statewide emissions, they represent an average efficiency that does not specifically consider the unique geographic and project-specific features that could influence emissions reductions achieved by the CEDHSP. The targets also do not isolate the required emissions reductions from new development only, which are needed to meet state goals. Tailoring CARB's per-capita targets to local project conditions is not possible with the available data published in the 2017 Scoping Plan or the 2022 Scoping Plan. Accordingly, per the Court's guidance provided in the Newhall Ranch ruling, CARB's efficiency targets are not

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<sup>21</sup> A *gap analysis* demonstrates the reductions needed at the residential and commercial land use levels to achieve state targets. *Capture* is the process of estimating the portion of projects that would result in emissions that exceed a significance threshold and would be subject to mitigation.

appropriate thresholds for independently evaluating the significance of project-generated GHG emissions. However, as noted above, the targets are useful benchmarks for assessing the proposed project's consistency with the state's overall reduction trajectory and CARB's efficiency thresholds, and therefore are presented for informational purposes.

### **CEQA Streamlining**

SB 375 included provisions for streamlined CEQA review for certain types of mixed-use and transit priority projects that meet the bill's specific criteria. According to State CEQA Guidelines Section 15183.5, quantified plans, such as the RTP/SCS EIR, "may be used in the cumulative impacts analysis of later projects."

Projects eligible for CEQA streamlining under SB 375 must be consistent with the general use designation, density, building intensity, and applicable policies specified for the project area in the SCS. Although the project would be eligible for streamlined review, the County has conservatively elected to quantitatively analyze all project-generated emissions, including GHGs generated by mobile sources.

### **Compliance with Regulatory Programs**

If the project complies with or exceeds those programs adopted by CARB or other state agencies, then a lead agency could rely on regulatory compliance to show less-than-significant GHG impacts. However, such analysis is only applicable within the area governed by the regulations. For example, consistency with regulations addressing building efficiency would not suffice to determine that the project would not have significant GHG emissions from transportation.

The Newhall Ranch decision specifically mentioned consistency with both the SCS (per SB 375) and AB 32 as potential mechanisms for evaluating significance. A lead agency could assess project-level consistency with AB 32 in whole or part by evaluating whether the project complies with applicable policies in the 2008 Scoping Plan, which did not consider deeper reductions needed to meet the state's 2030 target under SB 32 or 2045 target under AB 1279. Accordingly, exclusively relying on consistency with the 2008 Scoping Plan and related programs to evaluate emissions generated by land use development projects constructed after 2020 would not fully consider a project's potential GHG impacts on the state's long-term reduction trajectory.

Additional guidance on GHG-reduction strategies and thresholds for operational emissions has been provided at the state level through the 2017 and 2022 Scoping Plans, OPR, and CARB. The 2017 and 2022 Scoping Plans outlined GHG-reduction strategies by the emission sector (i.e., water, transportation, and energy) required to meet the state's 2030 and 2045 targets, respectively. OPR (2018a) guidance specifies that a "land use development project that produces low VMT, achieves applicable building energy efficiency standards, uses no natural gas or other fossil fuels, and includes Energy Star appliances where available, may be able to demonstrate a less-than-significant greenhouse gas impact associated with project operation." Furthermore, CARB (2019b) guidance specified per-capita VMT reduction targets that would be needed statewide to meet long-term mobile-source GHG-reduction targets, considering increased vehicle efficiency and reduced carbon content in vehicle fuels.

To the extent the CEDHSP policies comply with or exceed applicable policies outlined in the 2017 and 2022 Scoping Plans and other regulations adopted by CARB or other state agencies, the proposed project could appropriately rely on their use as showing compliance with performance-

based standards adopted to fulfill the statewide goal for reducing GHG emissions. The project's compliance with regulatory programs was therefore used to evaluate the significance of GHG emissions.

### **CEDHSP Threshold Approach**

Based on the available threshold concepts recommended by air districts and the Courts, GHG emissions from the project are evaluated on a sector-by-sector (e.g., energy, water) basis using the most-applicable regulatory programs, policies, and thresholds that EDCAQMD, CARB, and OPR recommend, as described above (in the subsection *Compliance with Regulatory Programs*). The buildout year for the proposed project is assumed to be 2040. Accordingly, the analysis focuses on the state's 2030 and 2045 GHG-reduction targets and the plans, policies, and regulations adopted pursuant to achieving the necessary reductions. Emissions generated at full buildout are used as an indicator for long-term emissions reduction progress and evaluated as they relate to the proposed project's impacts on the state's long-term goal under AB 1279. Where applicable, guidance from CARB, OPR, and other agencies related to long-term emissions-reduction requirements is incorporated into the analysis.

- **Mobile Sources.** CARB's 2017 and 2022 Scoping Plans recognized that although vehicle technologies and low-carbon fuels will continue to reduce transportation-sector emissions, VMT reductions are necessary to achieve California's long-term GHG-reduction target. As discussed in Section 3.14, *Transportation and Circulation*, of the Second Recirculated Draft EIR, the County's Board of Supervisors adopted VMT thresholds of significance for purposes of analyzing transportation impacts under CEQA. The County's VMT thresholds consider the VMT performance of residential and office components of a project separately, using the efficiency metrics of VMT per capita and VMT per employee, respectively. The County VMT thresholds of significance are summarized below for each of these components.
  - **Residential:** 15-percent below baseline unincorporated countywide VMT per capita
  - **Commercial Office:** 15-percent below baseline unincorporated countywide VMT per employee
  - **Commercial Retail:** No-net increase in VMT
- The County's VMT thresholds are consistent with CARB's per-capita VMT reduction target needed statewide to meet long-term climate change planning goals. Accordingly, use of County's VMT thresholds are applicable to the project. The 2022 Scoping Plan also outlined project attributes related to transportation electrification and VMT reduction. Projects that incorporate these attributes "are considered to be consistent with the Scoping Plan or other plans, policies, or regulations adopted for the purposes of reducing GHGs" (CARB 2022a). Mobile-source emissions would therefore be considered less than significant if the project: (1) achieves the County's VMT thresholds; and (2) meets 2022 Scoping Plan criteria for transportation electrification and VMT reduction.
- **Energy, Water, Waste, Area, High-GWP GHG, and Construction/Land Use Sources.** CARB's 2017 and 2022 Scoping Plans, which rely heavily on state programs (e.g., Title 24 and SB 100), outlined strategies required to reduce statewide GHG emissions in order to achieve California's SB 32 and AB 1279 reduction targets. Projects that implement applicable strategies from the 2017 and 2022 Scoping Plans would be consistent with the state's GHG-reduction framework and requirements for these sectors. Accordingly, a sector-by-sector review of the respective

project features and sustainability measures included in the CEDHSP is provided to evaluate consistency with the 2017 and 2022 Scoping Plans. This assessment also considers OPR (2018a) guidance related to the long-term reduction of statewide emissions. Accordingly, energy, water, waste, area, high-GWP GHG, and construction/land use source emissions would be considered less than significant if the project is consistent with all applicable 2017 and 2022 Scoping Plan strategies and supporting regulations and guidance.

Analyzing the proposed project’s consistency with regulatory requirements and agency expectations for new development on a sector-by-sector basis is consistent with SMAQMD’s published GHG threshold guidance (Ramboll 2020). CARB also recommends this approach as a pathway for analyzing project-level GHG-emission impacts of new residential and mixed-use development projects (CARB 2022a). The 2022 Scoping Plan specifically notes,

absent consistency with an adequate, geographically specific GHG reduction plan...the first approach the State recommends for determining whether a proposed residential or mixed-use residential development would align with the State’s climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions while simultaneously advancing fair housing (CARB 2022a).

Project consistency with applicable project attributes noted in the 2022 Scoping Plan has been incorporated into the sector-by-sector regulatory analysis, as noted above.

Although SMAQMD’s guidance is specific to Sacramento County, it identifies BMPs that new development must implement to avoid conflicting with long-term state GHG-reduction goals. These BMPs are consistent with guidance from other agencies, such as CARB (2019b) and OPR (2018a), and include prohibiting natural-gas infrastructure, ensuring projects are electric-vehicle ready, and achieving VMT reductions consistent with SB 743. SMAQMD’s GHG guidance and recommended BMPs have been incorporated into the sector-by-sector regulatory analysis, to extent that they are applicable to the CEDHSP.

As discussed above, operational emissions are also evaluated against CARB’s per-capita targets. This analysis assesses the project’s consistency with the state’s overall reduction trajectory and is presented for informational purposes and is not the basis for the CEQA impact conclusion, which is compliance with regulatory programs. The informational benchmarks are shown in Table 3.6-3.

**Table 3.6-3. Informational Greenhouse Gas Efficiency Benchmarks**

Threshold Type	Unit	Source Data	Project Benchmarks		
			Partial Build (2030)	Full Build (2040)	Full Build (2045)
CARB Statewide	Metric tons CO <sub>2e</sub> per person	6.0 (2030)	6.0	2.0 <sup>a</sup>	N/A
AB 1279 Carbon Neutrality Goal	Metric tons per any unit	0.0 (2045)	N/A	N/A	0.0

Source: CARB 2017b.

<sup>a</sup> Value was interpolated between CARB’s 2030 benchmark and the AB 1279 carbon neutrality goal for 2045, assuming full build would be reached in 2040.

AB = Assembly Bill; CARB = California Air Resources Board; CO<sub>2e</sub> = carbon dioxide equivalent.



### 3.6.2.3 Impacts and Mitigation Measures

#### **Impact GHG-1: Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment (significant and unavoidable)**

Construction of the proposed project would generate direct emissions of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O from mobile and stationary construction-equipment exhaust, as well as from employee-vehicle and haul-truck exhaust. Indirect emissions would also be generated by electricity used to pump and convey water to the project site for dust control. Finally, permanent conversion of natural lands would result in a one-time loss of carbon-sequestration capacity. Emissions from these sources were quantified using the methods described above in Section 3.3.2.1, *Methods for Analysis*, and in the Air Quality and GHG Technical Report (Appendix A) (Ascent 2023).

Table 3.6-4 presents estimated construction emissions. The emissions results do not account for potential GHG benefits of air quality mitigation (see Section 3.2, *Air Quality*). For example, Mitigation Measure AQ-2b would likely result in GHG-emissions benefits. However, because the measure outlines a performance standard for NO<sub>x</sub> reduction, as opposed to identifying specific equipment controls, GHG-emission reductions cannot currently be quantified.

**Table 3.6-4. Estimated Construction GHG Emissions (metric tons CO<sub>2</sub>e per year)**

Year	Unmitigated
Year 1	280
Year 2	1,014
Year 3	402
Year 4	679
Year 5	397
Year 6	355
Year 7	691
Year 8	728
Year 9	391
Year 10	396
Year 11	0
Year 12	371
Year 13	370
Year 14	834
Year 15	778
<b>Total Construction Emissions</b>	<b>7,685</b>
<b>One-Time Sequestration Loss</b>	<b>(+) 1,898</b>
<b>Total Construction Emissions with One-Time Sequestration Loss</b>	<b>9,583</b>

Source: Ascent 2023.

Notes: CO<sub>2</sub>e = carbon dioxide equivalent.

As shown in Table 3.6-4, construction of the CEDHSP would generate 7,685 metric tons of CO<sub>2</sub>e during the construction period. Permanent land conversion would result in an additional one-time loss of 1,898 metric tons CO<sub>2</sub>e. Total construction generated emissions inclusive of land-use change related emissions would be 9,583 metric tons CO<sub>2</sub>e.

Operation of the CEDHSP would generate direct and indirect GHG emissions. Sources of direct emissions include motor-vehicle trips, natural-gas combustion, and landscaping activities. Electricity generation and consumption, waste and wastewater generation, and water use would generate indirect emissions.<sup>22</sup> Conversely, tree planting would reduce GHG emissions through carbon sequestration.

Operational emissions were quantified for three analysis years, 2030, 2040, and 2045. Emissions in 2030 and 2045 were modeled to align with CARB milestone years for GHG-reduction planning efforts at the state level. Emissions in 2040 were modeled because that is the assumed the first operational year at full buildout. Table 3.6-5 presents the modeled operational emissions for all three analysis years. The table does not include emissions benefits achieved by CEDHSP polices, but does reflect adopted state regulations, to the extent that they were included in the models used to estimate emissions and designed to reduce GHG emissions (see Appendix A).

**Table 3.6-5. Estimated Operational GHG Emissions (metric tons per year, unless otherwise stated)**

Operational Year	CO <sub>2</sub> <sup>a</sup>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
<b>Emissions<sup>b</sup></b>				
2030 (Partial Operation)	3,005	4.53	0.17	3,169
2040 (Full Build)	6,173	12.77	0.34	6,594
2045	5,995	12.75	0.33	6,413
<b>Emissions per Capita<sup>c</sup></b>				
2030 (Partial Operation)	–	–	–	2.0
2040 (Full Build)	–	–	–	2.5
2045	–	–	–	2.4
<b>Informational Statewide Benchmarks</b>				
2030 (Partial Operation)	–	–	–	6.0
2040 (Full Build)	–	–	–	2.0
2045	–	–	–	0.0

Source: Ascent 2023.

<sup>a</sup> Accounts for average annual sequestration benefits from tree planting (see Appendix A).

<sup>b</sup> Accounts for reductions achieved by the Renewables Portfolio Standard.

<sup>c</sup> Assumes a partial 2030 build population of 1,556 and a full build population of 2,618.

CH<sub>4</sub> = methane; CO<sub>2</sub> = carbon dioxide; CO<sub>2</sub>e = carbon dioxide equivalents; GHG = greenhouse gas; N<sub>2</sub>O = nitrous oxide.

Partial operational emissions in 2030 are estimated to be 3,169 metric tons CO<sub>2</sub>e, which equates to 2 metric tons CO<sub>2</sub>e per capita. Estimated operational emissions at full build in 2040 and 2045 are 6,594 and 6,413 metric tons CO<sub>2</sub>e, respectively. These emissions equate to 2.5 metric tons CO<sub>2</sub>e per capita in 2040 and 2.4 metric tons CO<sub>2</sub>e per capita in 2045. These emissions at full build exceed CARB's statewide per-capita benchmarks. As noted above, the emissions analysis presented in Table 3.6-5 do not include benefits achieved by CEDHSP policies. The CEDHSP includes a comprehensive set of strategies that will improve energy efficiency, reduce water consumption and waste generation, and encourage alternative transportation. Although several policies encourage voluntary adoption of actions that will reduce GHG emissions, others identify mandatory targets that will be incorporated into the project design and achieved as a condition of project approval.

<sup>22</sup> Refrigeration and air conditioning units would also generate HFC emissions. These emissions are assessed qualitatively below.

Table 3.6-6 summarizes emissions with implementation of the following mandatory CEDHSP policies, as described in Appendix A.<sup>23</sup>

- **Policy 8.16**, Energy efficient appliances.
- **Policy 8.36**, Residential indoor water use.
- **Policy 8.40**, Recycled water use.
- **Policy 8.50**, Natural gas hearths.
- **Policy 8.51**, Wood-burning fireplaces.

**Table 3.6-6. Estimated Operational GHG Emissions with Implementation of Quantified Mandatory CEDHSP Policies (metric tons per year, unless otherwise stated)**

Operational Year	CO <sub>2</sub> <sup>a</sup>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
<b>Emissions<sup>b</sup></b>				
2030 (Partial Operation)	2,360	3.88	0.13	2,496
2040 (Full Build)	5,146	11.44	0.26	5,511
2045	4,971	11.42	0.26	5,333
<b>Emissions per capita<sup>c</sup></b>				
2030 (Partial Operation)	-	-	-	1.6
2040 (Full Build)	-	-	-	2.1
2045	-	-	-	2.0
<b>Informational Statewide Benchmarks</b>				
2030 (Partial Operation)	-	-	-	6.0
2040 (Full Build)	-	-	-	2.0
2045	-	-	-	0.0

Source: Ascent 2023

<sup>a</sup> Accounts for average annual sequestration benefits from tree planting (see Appendix A).

<sup>b</sup> Emissions account for reductions achieved by the Renewables Portfolio Standard and CEDHSP Policies 8.16, 8.36, 8.40, 8.50, and 8.51.

<sup>c</sup> Assumes a partial 2030 build population of 1,556 and a full build population of 2,618.

CH<sub>4</sub> = methane; CO<sub>2</sub> = carbon dioxide; CO<sub>2</sub>e = carbon dioxide equivalents; GHG = greenhouse gas; N<sub>2</sub>O = nitrous oxide.

Partial operational emissions in 2030 with quantifiable mandatory CEDHSP policies are estimated to be 2,496 metric tons CO<sub>2</sub>e, which equates to 1.6 metric tons CO<sub>2</sub>e per capita. Estimated operational emissions at full build in 2040 and 2045 with quantifiable mandatory CEDHSP are 5,511 and 5,333 metric tons CO<sub>2</sub>e, respectively. These emissions equate to 2.1 metric tons CO<sub>2</sub>e per capita in 2040 and 2 metric tons CO<sub>2</sub>e per capita in 2045. The analysis demonstrates that the quantified mandatory CEDHSP policies would improve the average GHG efficiency of developed land uses. The CEDHSP would achieve additional GHG reductions by incorporating voluntary policies that encourage renewable energy, alternative transportation, and passive heating and cooling. However, these strategies were not quantified because the exact number of installed systems and affected structures are currently unknown. Operational emissions would, therefore, likely be lower than those presented in Table 3.6-6. Although CEDHSP policies would reduce emissions, GHGs would exceed the informational efficiency benchmarks at full build.

<sup>23</sup> Additional mandatory policies outlined in the CEDHSP would be implemented, but to avoid potential double-counting with the quantified policies identified above, emissions benefits were not quantified.

The following sections present the sector-by-sector analysis of GHG impacts, consistent with OPR and CARB guidance.

### Area Sources

Area source-GHG emissions from the CEDHSP would be generated by landscaping-related fuel-combustion sources, such as lawn mowers, and hearths (e.g., fireplaces).

CARB has not developed any relevant measures in its Scoping Plans or other regulations related to area source emissions. CARB adopted emissions standards for small off-road engines (i.e., landscape equipment) in 1990. EO N-79-20 set a goal to transition off-road engines to 100-percent zero-carbon by 2035. CARB intends to consider specific standards for small engines, including regulatory and incentive approaches and a major shift to zero-emission equipment. However, to date, adopted CARB emission standards are aimed at reducing smog-forming pollutants. No standards have been adopted pursuant to reducing GHG emissions from small off-road engines.

Under SB 563, CARB has developed the Woodsmoke Reduction Program, which offers incentives toward the voluntary replacement of existing uncertified residential wood-burning devices used for space heating with cleaner and more efficient alternatives. Replacement options include stoves that are natural gas, propane, electric, ductless mini-split heat pumps, and wood (with emissions controls). The program is maintained through the Greenhouse Gas Reduction Fund.

The CEDHSP includes policies that will directly reduce GHG emissions and fossil-fuel consumption from area sources. For example, CEDHSP Policy 8.6 requires electrical outlets be provided along the front and rear exterior walls in all residential land use designations to allow for the use of electric landscaping tools. CEDHSP Policy 8.51 prohibits wood-burning fireplaces and requires all stoves and fireplaces be natural-gas fired. Although the emissions benefits achieved by CEDHSP Policy 8.6 cannot be quantified because it is unknown how many people will elect to use electric landscaping equipment, CEDHSP Policy 8.51 is estimated to reduce operational area source emissions by 797 metric tons CO<sub>2</sub>e (i.e., 52 percent) per year at full build (Ascent 2023).

Achieving the state's long-term climate change target under AB 1279 will inevitably require the transition away from fossil fuel-powered energy sources, including, but not limited to, landscaping equipment and hearths. Recognizing this, OPR (2018a) guidance recommends that land use development projects strive to avoid fossil fuels. SMAQMD's GHG guidance for Sacramento County also includes a BMP for projects to be designed and construction without natural-gas infrastructure (Ramboll 2020). To avoid conflicting with the state's 2030 GHG target and longer-term goals, SMAQMD recommends this BMP for all new developments in Sacramento County.<sup>24</sup> Finally, the 2022 Scoping Plan identifies the use of all-electric appliances without any natural-gas connections or use of fossil fuels for space heating, water heating, or indoor cooking as a key project attribute for consistency with the state's climate goals (CARB 2022a). Use of fossil-fueled landscaping equipment and natural-gas hearths on the project site would generate GHG emissions and may, therefore, conflict with the state's emission-reduction trajectory.

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<sup>24</sup> Based on Sacramento County's 2030 GHG target and estimated 2030 GHG emissions for the residential and commercial sectors, there is "no remaining emissions budget for natural gas from new development." In other words, for Sacramento County to achieve its 2030 GHG target for the residential and commercial sectors, new development must be constructed without natural gas infrastructure and "existing developments will need to reduce their natural gas use" (Ramboll 2020). This conclusion is specific to Sacramento County; a similar analysis has not been conducted for El Dorado County.

## Energy Sources

GHGs are emitted directly from buildings through the combustion of any type of fuel (e.g., natural gas for cooking). GHGs can also be emitted indirectly from the generation of electricity.

The 2017 and 2022 Scoping Plans outlined strategies to reduce energy demand and fossil-fuel use, while increasing energy efficiency and renewable-energy generation. These strategies include transitioning to cleaner fuels, implementing greater efficiency in existing buildings, and electrifying end uses. Several of these strategies are reflected in state laws and regulatory programs. For example, SB 100 requires a doubling of energy efficiency by 2030. SB 100 and SB 1020 also set a target of 100-percent carbon-free electricity by 2045. The 2019 Title 24 standards mandated higher efficiency levels and rooftop solar-PV systems for all new residential buildings constructed in 2020 and beyond. The 2022 Title 24 standards established “electric-ready” requirements for new homes. Future standards are expected to result in zero-net energy for newly constructed commercial buildings. The CEC also enforces the Appliance Efficiency Regulations contained in Title 20 of the CCR. The regulations establish water- and energy-efficiency standards for both federally regulated and non-federally regulated appliances.

CEDHSP Objective 8.4 requires all development within the plan area be energy efficient and encourages the onsite generation of renewable energy. The CEDHSP includes 13 policies to achieve this objective through a mix of voluntary and mandatory strategies. For example, CEDHSP Policy 8.12 encourages all buildings be oriented to reduce heating and cooling needs, whereas CEDHSP Policies 8.13 and 8.14 encourage cool roofing and energy-efficient glazing. CEDHSP Policies 8.20 and 8.21 target high-efficiency lighting throughout the plan area, and CEDHSP Policy 8.22 encourages onsite renewable-energy generation by requiring that buildings be prewired for future solar-PV systems and removing any restrictions on future installations. CEDHSP Policy 8.23 requires solar water-heating systems in commercial and multifamily buildings and encourages their installation in single-family homes and swimming pools.

The CEDHSP’s robust energy efficiency and renewable energy policies are consistent with the 2017 Scoping Plan’s overall goal of reducing building energy emissions to meet the state’s 2030 GHG-reduction target. To meet the state’s 2045 climate-neutrality goal (i.e., AB 1279), OPR (2018a) recommends all-electric buildings. Similarly, as noted above, SMAQMD’s GHG guidance shows that for Sacramento County to meet its 2030 GHG target for the building energy sector, new development must be constructed without natural-gas infrastructure (Ramboll 2020). Because SB 100 obligates utilities to supply 100-percent carbon-free electricity by 2045, all electric buildings that do not consume any natural gas would not generate any emissions. The 2022 Scoping Plan identifies no natural-gas connections or fossil-fuel consumption for space heating, water heating, or indoor cooking as key project attributes for consistency with the state’s climate goals (CARB 2022a). Although the CEDHSP encourages energy efficiency and onsite renewable energy, not all buildings will be designed without natural-gas appliances. The continued consumption of fossil fuels by CEDHSP buildings would generate energy emissions and could conflict with the state’s long-term emissions-reduction trajectory.

## Mobile Sources

GHG emissions associated with on-road mobile sources would be generated from worker, visitor, and delivery vehicles accessing the project area.

Federal, state, and local regulatory efforts target three elements of emissions reduction from mobile sources: vehicle fuel efficiency, the carbon content of fuels, and VMT. Most adopted programs and regulations focus on fuel efficiency (e.g., Pavley I Standard, Advanced Clean Cars) and reducing the carbon intensity of transportation fuels (e.g., LCFS). Vehicle electrification is also rapidly becoming part of the state's approach to reducing mobile source emissions (e.g., Title 24). The proposed project does not include any features that would conflict with these programs. Rather, CEDHSP Policy 8.4 requires dedicated parking for plug-in electric vehicles (PEVs) and installation of Level 2 PEV-charging stations in all Civic-Limited Commercial, Community Park, and Village Residential-High designations. CEDHSP Policy 8.3 also requires dedicated parking for low-emitting and fuel-efficiency vehicles within these designations, as well as within Village Residential-Medium. Finally, CEDHSP Policy 8.5 encourages PEV prewiring in private garages and other enclosed off-street parking spaces in all Village Residential-Low and Village Residential-Medium designations.

As discussed in Section 3.3.1, *Existing Conditions*, California adopted SB 375 to integrate transportation planning, regional housing allocation, and GHG reduction through reductions in VMT. The GHG-reduction targets that CARB adopted and that MPOs incorporated into their RTP/SCS were expected to achieve much of the required VMT reduction needed for the state to meet its long-term GHG-reduction targets. However, additional GHG reduction, specifically through further reductions in VMT, is needed to meet the state's climate-change objectives (CARB 2019b).

SB 743 was intended to help close the VMT- and emissions-reduction gap. There is a nexus between SB 743 and the state's goals to reduce mobile source GHG emissions; one of the criteria under SB 743 for determining the significance of the transportation impacts of a project is a reduction in GHG emissions. In response to SB 743 and the related changes to the State CEQA Guidelines, OPR released its *Technical Advisory on Evaluating Transportation Impacts in CEQA* (SB 743 Technical Advisory) (OPR 2018b). The advisory indicates that "achieving 15 percent lower per capita (residential) or per employee (office) VMT than existing development is both generally achievable and is supported by evidence that connects this level of reduction to the State's emissions goals" (OPR 2018b). This reduction goal is consistent with CARB (2019b) analysis, which demonstrated that a 14.3-percent reduction of VMT per capita by 2050 (compared to a 2015–2018 average) would be needed statewide to meet their GHG-planning goals. SMAQMD's GHG guidance for Sacramento County also recognizes that, to show consistency with SB 743, large projects should reduce their VMT according to the SB 743 Technical Advisory targets (Ramboll 2020).

As discussed above and in Second Recirculated DEIR Section 3.14, *Transportation and Circulation*, EDCTC completed the *El Dorado County and City of Placerville SB 743 Implementation Plan* (July 19, 2019) to support the County and the City of Placerville with implementation of SB 743, including setting thresholds of significance. These thresholds are described above in *Thresholds of Significance* and are consistent with OPR and CARB recommendations for analyzing transportation impacts and mobile source GHG emissions. Second Recirculated DEIR Tables 3.14-12 and 3.14-13 (in Section 3.14) compare the results of the VMT analysis for the CEDHSP to the County's thresholds. The tables indicate that the project's VMT per capita would not exceed the County's VMT thresholds.

CEDHSP objectives and policies are consistent with state goals to reduce VMT and promote alternative forms of transportation. For example, Objective 8.3 seeks to reduce trips and VMT by promoting enhanced mobility options for residents and employees. CEDHSP Policy 8.10 requires the Master Owners' Association create or participate in a Transportation Management Association and prepare a multi-strategy Transportation Management Plan (TMP) for the Plan Area. The TMP will provide employees of local retail, office, and other commercial businesses and the residents within

the plan area with programs and direct assistance in using alternative modes of travel. CEDHSP Section 8.4.2 identifies example strategies that may be incorporated into the TMP, including carpooling encouragement, ride-matching assistance, telecommuting, flexible scheduling, bicycle and end-trip facilities, discounted transit passes, and school ridesharing or enhanced bus programs. Because the exact suite of strategies for the TMP have not been finalized, VMT and emissions benefits from CEDHSP Policy 8.10 cannot be quantified at this time. However, research shows that providing commuter trip-reduction programs can reduce VMT by 4 to 26 percent, depending on the program details (CAPCOA 2021).

Additional VMT reductions may also be achieved by CEDHSP Policies 8.1 and 8.2, which encourage minimum off-street parking requirements and require bicycle parking in all Civic-Limited Commercial, Community Park, Village Residential-Medium, and Village Residential-High designations. For example, the project includes the following measures:

- Development of a network of Class I bike paths, Class II bike lanes, and pedestrian paths and sidewalks to connect residential areas with nearby shopping and employment centers, the Village Park site, open space and passive recreational areas, the surrounding community of El Dorado Hills, and beyond
- Relocation of the pedestrian overcrossing of US 50 at El Dorado Hills Boulevard/Latrobe Road to the east to connect the Village Park site and the off-street bike path with the El Dorado Hills Town Center south of the freeway, thereby improving nonmotorized connectivity with a major retail destination, resulting in reducing vehicle trips and VMT
- Creation of a trail network for passive enjoyment, including walking, jogging, and cycling
- Inclusion of sidewalks on at least one side of most public and private streets, with the exception of cul-de-sac streets, alleys, and emergency-vehicle access roads
- Use of traffic circles and all other traffic-calming techniques within the private streets, where appropriate
- Use of intersection and mid-block controls, such as street intersection neckdowns, midblock bulb-outs, and center islands along roadways with high pedestrian activity
- Use of special pavement markings and textured paving to serve as visual references for motorists, reminding them of the likely presence of pedestrians and cyclists in the area

Although these policies and practices will deliver additional VMT reductions, as shown in Table 3.6-7, the CEDHSP is not consistent with all project attributes identified in the state's 2022 Scoping Plan that aim to reduce mobile-source GHG emissions. Accordingly, mobile-source emissions associated with the CEDHSP could conflict with the state's long-term emission-reduction trajectory.

**Table 3.6-7. Consistency of the CEDHSP with the 2022 Scoping Plan Key Project Attributes for Transportation Electrification and VMT Reduction**

Priority Area	Key Project Attribute	Project Consistency Analysis
Transportation Electrification	Provides EV-charging infrastructure that, at a minimum, meets the most ambitious voluntary standard in the CALGreen Code at the time of project approval.	<b>Not Consistent.</b> CEDHSP Policy 8.4 requires dedicated off-street parking for PEVs and installation of Level 2 PEV-charging stations in each dedicated PEV-parking space, in accordance with CALGreen Nonresidential Tier 1 Voluntary Measures. However, the policy does not include a complementary PEV requirement for residential land uses.
	Is located on infill sites that are surrounded by existing urban uses and reuses or redeveloped previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer).	<b>Consistent.</b> The proposed project would occur on underutilized land that is presently served by existing utilities and essential public services.
VMT Reduction	Does not result in the loss or conversion of natural and working lands	<b>Not Consistent.</b> The CEDHSP would result in permanent losses of oak woodlands.
	Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre), is in proximity to existing transit stops (within 0.5 mile), or satisfies more-detailed and stringent criteria specified in the region’s SCS.	<b>Consistent.</b> The CEDHSP qualifies as a mixed-use residential project (at least 75% of total building square footage is residential use).
	Reduces parking requirements by eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet), providing residential parking supply at a ratio of less than one parking space per dwelling unit, or, for multifamily residential development, requires parking costs to be unbundled from costs to rent or own a residential unit.	<b>Consistent.</b> CEDHSP Policy 8.1 requires flexible minimum off-street parking requirements and includes maximum allowable parking ratios/spaces per residential unit per Mitigation Measure GHG-2.
	At least 20 percent of units included are affordable to lower-income residents.	<b>Not Consistent.</b> The CEDHSP does not include any affordable units.
	Results in no net loss of existing affordable units	<b>Consistent.</b> The CEDHSP will develop underutilized open space and would not result in a net loss of existing affordable units.

CALGreen = California Green Building Standards Code; EV = electric vehicle; PEV = plug-in electric vehicle; SCS = Sustainable Communities Strategy; VMT = vehicle miles traveled.



## **Waste**

Solid-waste emissions result from CH<sub>4</sub> associated with the decomposition of the waste and CO<sub>2</sub> emissions associated with the combustion or flaring of CH<sub>4</sub>. Solid waste may be disposed of in landfills or diverted for recycling, composting, reuse, or other means to avoid landfilling.

The 2017 and 2022 Scoping Plans aimed to reduce waste emissions by diverting waste away from landfills through waste reduction, re-use, composting (i.e., organics diversion), and material recovery. SB 1383 established minimum standards for organic-waste collection, hauling, and composting. The bill also set a statewide target of 75-percent organic-waste diversion from landfills by 2025.

SMAQMD's GHG guidance notes that existing and new development must comply with all applicable CalRecycle requirements. Therefore, "through regulatory compliance, new developments are assumed to achieve their 'fair share' of reductions for the solid waste sector" (Ramboll 2020). CEDHSP Objective 8.6 encourages recycling and composting in both private residences and public spaces. CEDHSP Policies 8.32 through 8.34 encourage onsite composting, and CEDHSP Policy 8.35 requires recycling and composting services be provided in the plan area. The emphasis on composting and the provision of composting services is consistent with the 2017 and 2022 Scoping Plans and would support the overall goals of AB 341 and SB 1383 in reducing landfilled waste and associated CH<sub>4</sub> emissions.

## **Water and Wastewater**

Indirect GHG emissions result from the production of electricity used to convey, treat, and distribute water and wastewater. The amount of electricity required for these processes depends on the volume and sources of water. Additional wastewater emissions include CH<sub>4</sub> and N<sub>2</sub>O, although these are generated by wastewater treatment at individual WWTPs. The project does not include any new WWTPs.

The 2017 and 2022 Scoping Plans outlined objectives and goals to reduce GHGs in the water sector, including using and reusing water more efficiently through greater water conservation, drought-tolerant landscaping, stormwater capture, and water recycling. Regulations have further targeted water supply and water conservation through building and landscaping efficiency (e.g., CCR Title 24). The Water Conservation Act of 2009 sets an overall goal of reducing per-capita urban-water use by 20 percent by December 31, 2020, which has been achieved.

The CEDHSP does not include any features that would conflict with state measures and programs. The CEDHSP includes 12 policies directly related to water conservation. For example, CEDHSP Policy 8.36 requires indoor residential water use be reduced by 20 percent from the 2008 Plumbing Code baseline, and CEDHSP Policy 8.37 encourages nonresidential indoor water use be reduced by 30 percent. CEDHSP Policies 8.38 and 8.39 require low-flow faucets and encourage waterless urinals and toilets. CEDHSP Policies 8.40 and 8.41 support recycled-water use, whereas CEDHSP Policies 8.42 through 8.47 target outdoor water use through hydrozoning techniques, native plantings, reductions in turf, and installation of efficient irrigation controls. These policies are consistent with the 2017 and 2022 Scoping Plans' water measures and the state's regulatory programs within the water sector.

### High Global Warming Potential Greenhouse Gases

HFCs are synthetic gases that may be used in residential refrigeration and air conditioning units, as well as in on-road vehicle air conditioning units. Emissions of HFCs occur as a result of wear, faulty maintenance, and leakage at the end of a product's lifetime.

The 2017 and 2022 Scoping Plans assume implementation of the SLCP Reduction Strategy and attainment of the state's SLCP reduction targets for HFCs. The SLCP Reduction Strategy identifies four state strategies that will develop grants and incentives for alternatives to HFCs, as well as evaluate the feasibility of a new ban on HFCs in new nonresidential refrigeration units, air conditioning (nonresidential and residential) units, and residential refrigerators and freezers. Both existing and new development, including development in the CEDHSP, would be required to comply with state regulations for minimizing HFCs that are in place at the time of construction.

### Construction/Land Use Change

The 2017 Scoping Plan identifies increasing carbon sequestration as crucial to achieving the state's long-term climate-change strategy, outlines objectives to maintain natural lands as a resilient carbon sink and sets a goal to reduce GHG emissions from natural and working lands by at least 15 to 20 million metric tons of CO<sub>2</sub>e by 2030. SB 1386 also identifies the protection and management of natural and working lands as a key strategy toward meeting the state's 2030 GHG-reduction target. However, SB 1386 is directed to state agencies, departments, boards, and commissions and not local jurisdictions, such as the County. No specific policies, directives, or regulations have been adopted that must be implemented in the County. Finally, the 2022 Scoping Plan specifically includes no net loss or conversion of natural and working lands as a required project attribute for project consistency with the scoping plan.

As discussed in Section 3.3, *Biological Resources*, of the Second Recirculated DEIR, oak woodland is protected by policies in the County's General Plan and Code of Ordinance. Accordingly, the proposed project is required to mitigate all native oak tree impacts at a 1:1-inch ratio and all heritage oak trees at a 3:1-inch ratio. The total amount of CO<sub>2</sub> sequestered as a result of the tree planting over a 30-year tree life period is estimated to be 8,310 metric tons of CO<sub>2</sub>e (Ascent 2023). As shown in Table 3.6-4, permanent conversion of natural lands would result in 1,898 metric tons of CO<sub>2</sub>. Thus, the proposed project would have a net positive land use change effect and would not conflict with the state's land use and sequestration goals.

With respect to construction equipment emissions, USEPA and the NHTSA have adopted standards for CO<sub>2</sub> emissions and fuel consumption from heavy- and medium-duty vehicles. The 2019 California Green Building Standards Code (CALGreen Code) contains mandatory requirements aimed at reducing construction waste, making buildings more efficient in their use of materials and energy, and reducing environmental impacts during and after construction. For example, residential projects must recycle and/or salvage for reuse a minimum of 65 percent of nonhazardous construction and demolition debris or meet local construction and demolition waste-management ordinance requirements, whichever is more stringent (CALGreen Code §§ 4.4081.1 and 5.408.1). In addition, 100 percent of trees, stumps, rocks, and associated vegetation and soils resulting primarily from land clearing for nonresidential projects must be reused or recycled (CALGreen Code § 5.408.3).

The CEDHSP includes the following policies that would help reduce construction-related GHG emissions.

- **Policy 8.24** requires a 20-percent reduction in cement use in residential foundations, which would reduce embodied energy associated with construction.
- **Policy 8.25** requires that cement and concrete be made with recycled products, which would conserve virgin materials and may reduce manufacturing energy.
- **Policy 8.27** requires use of sustainably sourced, regional, bio-based, and reused materials, which may reduce hauling requirements and transportation mileage.
- **Policy 8.28** requires development of a Construction Waste Management Plan to increase recycling and divert landfilled waste, which would reduce CH<sub>4</sub> emissions from waste decomposition.
- **Policy 8.29** requires that a minimum of 65 percent of the nonhazardous construction waste generated be recycled or salvaged for reuse, which would reduce CH<sub>4</sub> emissions from waste decomposition.
- **Policy 8.30** requires that topsoil displaced during grading be placed in a designated area for future reuse, which may reduce hauling requirements and transportation mileage.

Although these policies would reduce emissions associated with construction, given the potential 15-year construction period and the state's long-term goals to eliminate fossil-fuel combustion, construction activities may conflict with the state's emission-reduction trajectory.

## Conclusion

Operation of the CEDHSP could conflict with the state's emissions-reduction goals and trajectory, specifically within the area, energy, mobile, and construction sectors. Although the CEDHSP has a diverse suite of strategies that target emissions from these sectors, many of the measures are voluntary, and there is no guarantee that the action would be incorporated into the project design of all future development.

Because the regulatory changes to meet the 2045 emissions reduction target are still being developed, the extent to which the proposed project's emissions and resulting impacts would be mitigated through implementation of statewide (and nationwide) changes is not known. The calculation of post-2030 emissions cannot consider future federal or state actions that may be taken to achieve long-term reductions, beyond the Pavley I standards and SBs 100/1020.

The achievement of long-term GHG-reduction targets will require substantial change in terms of how energy is produced and consumed, as well as other substantial economy-wide changes, many of which can only be implemented by the federal and state governments. Given that the proposed project includes development and emissions sources that may be inconsistent with the state's long-term reduction trajectory, CEDHSP would result in a potentially significant impact on GHG emissions. Accordingly, Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c are required to mitigate the CEDHSP's GHG impact.

The purpose of Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c is to require project-specific GHG-emission reductions consistent with the California GHG-reduction targets required in SB 32 for 2030, and to support long-term reductions consistently with the need to eventually reach carbon neutrality statewide (AB 1279). The actions within the measures are either recommended by

SMAQMD or EDCAQMD or are consistent with the major strategies for GHG reductions reflected in Appendix B of CARB’s 2017 Scoping Plan and Appendix D of CARB’s 2022 Scoping Plan. Because the CEDHSP already contains numerous policies that will reduce emissions, Mitigation Measures GHG-1 and GHG-2 reflect additional commitments that can be made to further reduce emissions.

Mitigation Measures GHG-1, AQ-2b, and AQ-2c would reduce GHG emissions during construction through implementation of BMPs that will reduce fossil-fuel combustion and support electric-powered (or alternatively fueled) equipment and vehicles. Mitigation Measure GHG-2 outlines feasible GHG reduction strategies that can be individually or collectively implemented to reduce operational GHG emissions within the area, energy, and mobile-source sectors. The measure includes required revisions to several CEDHSP policies, as well as a menu of onsite and offsite strategies (including GHG credits). Various combinations of onsite and offsite strategies could be pursued to optimize total costs or community co-benefits. The project applicant will be responsible for determining the overall mix of strategies necessary to ensure the performance standard to mitigate the significant GHG impact is met, as discussed further below.

Table 3.6-8 summarizes estimated operational emissions with implementation quantifiable revisions to CEDHSP Policies 8.22, 8.37, and 8.4, which are required by Mitigation Measure GHG-2. Reductions from revisions to CEDHSP Policies 8.1 and 8.34, which are also required by Mitigation Measure GHG-2, could not be quantified at this time. This is because specific details required to quantify emissions reductions are not currently available.

**Table 3.6-8. Estimated Full Build Operational GHG Emissions with Implementation of Quantifiable Revisions to CEDHSP Policies Required by Mitigation Measure GHG-2 (metric tons per year, unless otherwise stated) <sup>a</sup>**

Operational Year	CO <sub>2</sub> <sup>a</sup>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
<b>Emissions <sup>b</sup></b>				
2030 (Partial Operation)	2,256	3.88	0.13	2,392
2040 (Full Build)	5,072	11.4	0.26	5,436
2045	4,971	11.38	0.26	5,331
<b>Emissions per capita <sup>c</sup></b>				
2030 (Partial Operation)	-	-	-	1.5
2040 (Full Build)	-	-	-	2.1
2045	-	-	-	2.0
<b>Informational Statewide Benchmarks</b>				
2030 (Partial Operation)	-	-	-	6.0
2040 (Full Build)	-	-	-	2.0
2045	-	-	-	0.0

Source: Ascent 2023.

<sup>a</sup> Accounts for average annual sequestration benefits from tree planting (see Appendix A).

<sup>b</sup> Emissions account for reductions achieved by the RPS, CEDHSP Policies 8.16, 8.36, 8.40, 8.50, and 8.51, and revisions to CEDHSP Policies 8.22, 8.37, and 8.4 per Mitigation Measure GHG-2.

<sup>c</sup> Assumes a partial 2030 build population of 1,556 and a full build population of 2,618.

CH<sub>4</sub> = methane; CO<sub>2</sub> = carbon dioxide; CO<sub>2</sub>e = carbon dioxide equivalents; GHG = greenhouse gas; N<sub>2</sub>O = nitrous oxide.

As shown in Table 3.6-8, revisions to CEDHSP policies will reduce GHG emissions, but the majority of reductions achieved by Mitigation Measure GHG-2 will be through onsite and offsite strategies. Selected strategies will be identified and implemented through a GHG reduction plan that will be prepared by the applicant, pursuant to Mitigation Measure GHG-2. The following sections evaluate

the potential for required CEDHSP policy revisions and onsite and offsite strategies included in Mitigation Measure GHG-2 to address conflicts with the state's emission-reduction goals and trajectory within the mobile, energy, and area. The analysis also evaluates the potential for required construction mitigation (i.e., Mitigation Measure GHG-1, AQ-2b, and AQ-2c) to address the potentially significant impact within the construction sector.

### **Mobile Sources**

Although the CEDHSP meets the County's VMT threshold, the plan is not consistent with all project attributes identified in the state's 2022 Scoping Plan that aim to reduce mobile-source GHG emissions. Specifically, the project attributes related to electric-vehicle charging, parking restrictions, land use conversion, and provision of affordable housing. Mitigation Measure GHG-2 requires revision to CEDHSP Policy 8.4 to require electric-vehicle readiness in all Village Residential-Low and Village Residential-Medium designations and revision to CEDHSP 8.1 to limit off-street parking requirements to maximum allowable parking ratios. Although this measure is consistent with the 2022 Scoping Plan's electric-vehicle charging and parking-restriction project attributes, the CEDHSP would still develop natural lands and does not propose affordable housing. Accordingly, the proposed project may conflict with the state's emission-reduction trajectory within the mobile source sector.

Beyond the CEDHSP policy revisions, Mitigation Measure GHG-2 identifies offsite strategies that may be pursued by the applicant, as feasible, to reduce VMT and support the state's and El Dorado County Transit Authority's (EDCTA) mobile-source goals to expand transit. However, although the project developers can provide financial and administrative assistance to EDCTA to develop high-quality transit service within the plan area, the implementation of transit-improvement projects depends on coordination and partnership with EDCTA, which the applicant cannot fully control.

### **Energy Sources**

Required revision to CEDHSP Policy 8.22 under Mitigation Measure GHG-2 bolsters renewable-energy resources through mandates for onsite generation. Mitigation Measure GHG-2 also identifies implementing all-electric buildings as a potential onsite strategy. In order to meet the state's 2045 climate-neutrality goal (AB 1279), OPR (2018a) recommends all-electric buildings, and the 2022 Scoping Plan identifies all-electric design as a key project attribute for plan consistency. Because SBs 100 and 1020 obligate utilities to supply 100-percent carbon-free electricity by 2045, all electric buildings that do not consume any natural gas would not generate any emissions. Accordingly, if all-electric design is selected and fully implemented as an onsite strategy pursuant to Mitigation Measure GHG-2, then the CEDHSP would not conflict with the 2017 and 2022 Scoping Plans or the state's long-term statewide-reduction trajectory for energy sources.

Although all-electric buildings have been designed and constructed throughout California, the Ninth Circuit Court of Appeals ruled that the federal Environmental Policy and Conservation Act (EPCA) preempts local natural-gas bans for new development (*California Association of Restaurants vs. City of Berkeley* [2023] 65 F.4<sup>th</sup> 1045). Although the Court's ruling only applies to local ordinances, like Berkeley's natural-gas ban, it could constrain the County's ability to impose all-electric design requirements for new development. Given this legal uncertainty, the County recognizes that its authority to require all-electric buildings may be restricted. The ability to lawfully require all-electric buildings is one of many considerations that will be made by the project applicant and the county in developing the final GHG reduction plan for the project.

Beyond all-electric design, Mitigation Measure GHG-2 identifies several other onsite and offsite strategies that would reduce building energy consumption. For example, where feasible, buildings may be achieve Leadership in Energy and Environmental Design (LEED) Silver certification or higher. LEED Silver certification cannot be expressly mandated for all structures because final building design will depend on individual buyer preferences at the point of sale. The specific components and feasibility of plan-wide LEED certification are thus not currently known, particularly for custom lots. Accordingly, the project may conflict with the state's emissions-reduction trajectory within the energy source sector.

### ***Area Sources***

Required revision to CEDHSP Policy 8.6 under Mitigation Measure GHG-2 will help facilitate electrification of fossil-fueled equipment by requiring outdoor electric outlets. However, the provision of exterior electric outlets does not necessarily guarantee use of electric equipment. Beyond the CEDHSP policy revision, Mitigation Measure GHG-2 identifies onsite strategies that the applicant may pursue to reduce area source emissions. For example, the applicant may encourage use of electric-powered landscaping equipment in place of conventional diesel equipment. Although this strategy will support reductions in area source emissions, it is important to recognize that project developers do not have authority to mandate use of electric equipment among residents. Accordingly, the project may conflict with the state's emissions-reduction trajectory within the area source sector.

### ***Construction***

Mitigation Measure GHG-1 would reduce construction-generated GHG emissions by requiring use of alternative fuels and minimizing vehicle-idling time, among other BMPs. Additional commitments for electric-powered (or alternatively fueled) equipment may be pursued through Mitigation Measure AQ-2b and newer onsite trucks through Mitigation Measure AQ-2c. Although these measures and actions would reduce emissions associated with construction, given the potential 15-year construction period, construction activities may conflict with the state's emissions-reduction trajectory.

### ***Summary***

Although required CEDHSP policy revisions and onsite and offsite strategies included in Mitigation Measure GHG-2, as well as implementation of Mitigation Measures GHG-1, AQ-2b, and AQ-2c, will achieve GHG benefits, the CEDHSP would conflict with the state's emission-reduction goals and trajectory within the area, energy, mobile, and construction sectors. It is therefore likely that procurement of GHG credits will be a required component of the project GHG reduction plan to achieve the necessary GHG reductions to mitigate the project's significant GHG impact. Mitigation Measure GHG-2 identifies GHG credits as the third-priority strategy after onsite and offsite strategies.

The performance standard that must be achieved by the selected strategies under Mitigation Measure GHG-2 is to reduce project area, construction, and building natural gas (i.e., energy) sector emissions to achieve a no-net increase in project-related GHG emissions from these sectors, consistent with CARB and OPR recommendations to eliminate fossil fuel-combustion emissions. The performance standard also requires mobile-source emissions be reduced to achieve the requisite reductions needed to achieve compliance with the 2022 Scoping Plan land use conversion and affordable-housing project attributes. The required level of GHG reduction needed to achieve

consistency with the 2022 Scoping Plan land use conversion and affordable-housing project attributes is calculated as follows.

- **Land Use Conversion:** In general, compact development in infill areas has more-efficient travel patterns, resulting in lower VMT and GHG emissions (CARB 2022a). Developing natural or working lands, particularly those not proximate to existing residential and commercial services, can increase the average distance and number of per-capita vehicle trips compared to the same development in a more-urbanized area. Although the project traffic and associated emissions analysis accounts for these geographic and land use considerations, land conversion is unavoidable for the proposed project's location. The resulting conflict with the 2022 Scoping Plan is tied to the location-based VMT effect of constructing project land uses in an undeveloped area compared to a developed area. SACOG (2021) has mapped existing VMT throughout the SACOG region. Results are presented using hexagon (HEX) geography, which displays VMT per resident and per job over a hexagon grid. The mapped areas of the CEDHSP plan area include HEXs FA- and EZ-125 and -126, and FB-126 through EB-128, which have an average per-capita VMT of 24.17 and an average work VMT of 23.73 per job. The nearest fully developed area to the CEDHSP plan area is La Cresta Village (HEX FA-128), with a per-capita VMT of 21.95 and a work-tour VMT of 22.39 per job. If land uses proposed under the CEDHSP were wholly developed in this HEX, then the proposed project would not require land conversion and would thus be consistent with the 2022 Scoping Plan land-conversion project attribute. Accordingly, the amount of project emissions related to the land use inconsistency was calculated based on the percentage of change in per-capita and per-job VMT between the nearest HEX that would not require land use conversion and the CEDHSP plan area HEXs. These values (i.e., 9.2 percent for per capita VMT and 5.6 percent for per job VMT) were multiplied by project mobile-source GHG emissions from residential and commercial VMT, respectively.
- It is worth noting that this calculation approach likely overestimates the influence of land use conditions on project VMT and mobile-source GHG emissions. The SACOG HEX data are based on without-project conditions. Over time, with implementation of the CEDHSP and other future regional and local projects, the plan area HEXs and surrounding area will mature and contain a mixture of residential, commercial, retail, and recreational uses. This densification and diversity of land use types will contribute to shorter vehicle trips and more vehicle trips made by alternative modes of transportation. Accordingly, the per-capita VMT and per-job VMT for the CEDHSP plan area will likely be lower than represented by the current SACOG data; thus, the delta in per-capita VMT and per-job VMT compared to developed areas (i.e., no land conversion) would be less.
- **Affordable Housing:** In certain locations, affordable housing can reduce VMT by providing lower-income families greater opportunity to live closer to job centers and transit options. Research cited by CARB in the 2022 Scoping Plan indicates that location-efficient variables, such as development density, proximity to transit, and availability of localized amenities, are necessary for affordable housing strategies to deliver VMT reduction (California Housing Partnership Corporation and TransForm 2014; Newmark and Hass 2015). Restricting housing to below-market rates in areas without proximate supporting services will not achieve the same success as providing affordable housing in location-efficient, transit-rich areas. As shown in DEIR Figure 2-4c, RMI-PD—Multifamily, RM2-PD—Multifamily, and R4-PD—Single Family in the Serrano Westside Planning Area are proximate to the proposed CL1-PD—Civic Limited Commercial or Serrano Parkway to US 50. The R20-PD—Single Family and RM2-PD—Multifamily in the Pedregal Planning Area will support homes that are less dense or further from

services. Accordingly, R20-PD and RM2-PD units in the Pedregal Planning Area would not be effective candidates for VMT reduction through affordable housing and are excluded from the 2022 Scoping Plan compliance review.

- As shown in Table 3.6-7, the 2022 Scoping Plan affordable-housing project attribute requires 20 percent of units be designated affordable. The project design does not support this designation. Accordingly, the amount of project emissions related to the affordable-housing inconsistency was calculated based on the expected percentage of reduction in GHGs that would be achieved if 20 percent of RMI-PD, RM2-PD, and R4-PD in the Serrano Westside Planning Area were designated affordable. This value (5.7 percent) was calculated using CAPCOA (2021) and multiplied by project mobile-source GHG emissions from RMI-PD, RM2-PD, and R4-PD VMT in the Serrano Westside Planning Area.

Table 3.6-9 presents estimated operational mobile, area, construction, and building natural-gas emissions subject to the reduction commitment under Mitigation Measure GHG-2. Area, mobile, and natural-gas source emissions have been forecasted over a 30-year operational analysis period. The forecast holds annual emissions quantified under full-build conditions constant over time. This approach likely overestimates future area-source emissions because it does not account for improvements in engine technology or regulations that will reduce the carbon intensity of landscaping equipment. Specifically, AB 1346, which was signed by Governor Newsom on October 9, 2021, directs CARB to adopt regulations requiring new small off-road engines used primarily for landscaping to be zero-emission by 2024. Accordingly, it is likely that state regulation will reduce the carbon intensity of future landscaping equipment, although the precise amount and impact on CEDHSP emissions cannot currently be quantified at this time. The analysis likewise does not account for project-level mobile-source benefits from regulations and policies adopted after publication of the analysis models—principally, the Advanced Clean Truck and Advanced Clean Cars II regulations, which ban the sale of fossil fuel-powered heavy vehicles and passenger cars/trucks, respectively, beyond certain future dates.

**Table 3.6-9. Project Mobile, Area, Construction, and Building Natural Gas Sector Emissions Subject to Reduction under Mitigation Measure GHG-2 (metric tons CO<sub>2</sub>e)**

Year <sup>a</sup>	Construction <sup>a</sup>	Operations	Total <sup>b</sup>
Construction Year 1	280	0	280
Construction Year 2	1,014	0	1,014
Construction Year 3	402	0	402
Construction Year 4	679	532	1,211
Construction Year 5	397	737	1,134
Construction Year 6	355	901	1,256
Construction Year 7	691	1,064	1,755
Construction Year 8	728	1,228	1,956
Construction Year 9	391	1,392	1,783
Construction Year 10	396	1,555	1,951
Construction Year 11	0	1,555	1,555
Construction Year 12	371	1,597	1,968
Construction Year 13	370	1,638	2,008
Construction Year 14	834	1,830	2,664
Construction Year 15	778	1,871	2,649



Year <sup>a</sup>	Construction <sup>a</sup>	Operations	Total <sup>b</sup>
Full Build (Operational Year 1)	0	2,084	2,084
Operational Years 2–30	0	60,102	60,102
Total	7,685	78,086	85,772

Source: Based on Ascent 2023.

- <sup>a</sup> Excludes emissions from one-time sequestration loss because these would be offset through long-term increases in carbon sequestration from project tree planting.
- <sup>b</sup> Includes all area-source and building natural gas emissions, which, per Mitigation Measure GHG-2, must be reduced to achieve a no-net increase in project-related GHG emissions, as well as the project share of mobile source-emission reductions needed to achieve compliance with the 2022 Scoping Plan land use conversion and affordable-housing project attributes. Partial operational emissions for construction Years 4 through 15 was scaled from the 2030 and full-build estimates based on the number of development acres constructed in the year prior.

The analysis utilizes a 30-year operational-analysis period consistent with CARB-approved analyses for AB 900 projects, which are considered “environmental leadership development projects” (Murphy 2019). Although regulations are likely to reduce emissions from area sources to net zero within this period (2040 to 2070), there is the possibility GHG emissions from these sources could persist beyond the analysis period considered in this document. Specifically, the operational lifetime of commercial and residential land uses constructed under the plan is expected to exceed 30 years. Uncertainty is associated with characterizing future-market conditions, regulations, technologies, and consumer choices, and the degree of that uncertainty increases dramatically the further into the future the forecast extends. The confidence in emissions projections beyond 30 years is limited and would be speculative. Accordingly, this analysis uses a 30-year analysis period for the consideration of future GHG emissions.

Total construction and operational area-, mobile-, and building natural gas-source emissions over the 30-year analysis period are estimated to be 85,772 metric tons CO<sub>2</sub>e. This represents the project’s maximum total mitigation commitment, which may be recalculated and achieved on a phase-by-phase basis, as described under Mitigation Measure GHG-2. The mitigation obligation may therefore change over time as the project is implemented, regulations change, and new control technologies become available and effective.

Should GHG credits be pursued as a strategy, Mitigation Measure GHG-2 outlines specific and enforceable standards to obtain such credits. A GHG credit enables development projects to compensate for their GHG emissions and associated environmental impacts by financing reductions in GHG emissions elsewhere. GHG credits are classified as either compliance or voluntary. In California, compliance credits can be purchased by covered entities subject to the state’s Cap-and-Trade regulation to meet predetermined regulatory targets. The emissions associated with this project are not covered by the Cap-and-Trade regulation; thus, the Cap-and-Trade offsets cannot be used for this project. Voluntary credits are not associated with the Cap-and-Trade regulation and are purchased with the intent to voluntarily meet carbon-neutral or other environmental obligations.

Successful GHG credit programs require not only established accounting protocols to monitor, report, and document reductions, but also independent verification of the reported reductions to ensure their credibility and accuracy. GHG credit “protocols” outline the accounting rules and requirements for monitoring, quantifying, and reporting GHG credits. Numerous GHG credit protocols currently exist internationally, nationally, and state-wise. However, only those maintained by *accredited* registries provide technically sound methods to assure GHG credits achieve real GHG reductions. Accredited registries develop high-quality protocols and oversee registration and retirement of GHG credits.

CARB (2021a) currently recognizes the following three registries as accredited under the Cap-and-Trade regulation: American Carbon Registry (ACR), Climate Action Reserve (CAR), and Verra (formally Verification Carbon Standard). The Cap-and-Trade regulation requires all GHG credits be real, additional, quantifiable, permanent, verifiable, and enforceable, pursuant to and as defined in 17 CCR 95802(a). CARB (2021b) has approved six protocols that establish the accounting procedures to verify that GHG credits for the Cap-and-Trade program achieve these standards. In its Golden Door decisions, the Court emphasized the need for GHG credits pursued as CEQA mitigation to meet these six criteria and also originate from a CARB approved protocol or a “protocol [that is] consistent with CARB requirements under title 17, section 95972, subdivision (a)(1)–(9) of the California Code of Regulations.” The ACR, CAR, Verra, and other accredited registries (e.g., Gold Standard) maintain many programs that are equally as rigorous and enforceable as the six CARB-approved protocols for the Cap-and-Trade program (i.e., they meet the requirements of 17 CCR 95972) (AEP Climate Change Committee 2020). CARB approval of their six protocols merely distinguishes them for use in the Cap-and-Trade system and associated compliance market. CARB’s regulations are not legally applicable to the voluntary GHG credit market, and CARB has no authority to enforce standards for the voluntary GHG credit market.

Salient to the discussion of GHG credits as CEQA mitigation is geographic location. As discussed above, climate change is a global problem, and GHGs are global pollutants. Some GHGs can reside in the atmosphere for 1,000 of years, becoming well-mixed and transported internationally (Gulev et al. 2021). For this reason, achieving a 1-metric-ton reduction in GHGs in California is functionally equivalent to a 1-metric-ton reduction in GHGs anywhere else in the world. In its Golden Door decisions, the Court expressed concern with the use of international GHG credits. However, their concern was not with the science underpinning the cumulative nature of GHGs, but rather with potential uncertainty regarding enforcement of GHG credits in foreign countries. There is no doubt that the quality of GHG credits depends on the protocol and registry by which they are certified. Requirements of GHG credit protocols, such as for credits to meet the six criteria established in 17 CCR 95802, apply regardless of the credit’s location. This is evidenced by the Cap-and-Trade regulation itself, which permits out-of-state and even outside-U.S. compliance credits.<sup>25</sup>

Although CARB does have certain enforcement authority pursuant to the covered entities regulated under the Cap-and-Trade regulation in regard to compliance offsets, the procurement of GHG credits on the voluntary market is a commercial transaction subject to the same laws and securities as any business agreement. Moreover, GHG credits resulting from GHG offsets are the result of projects that have already occurred. Therefore, the reduction has already been achieved.

In developing Mitigation Measure GHG-2 and considering use of GHG credits to meet the performance standard (85,772 metric tons CO<sub>2</sub>e), the County has thoroughly and thoughtfully considered the current scientific, regulatory, and legal framework for effective GHG mitigation and use of GHG credits. The measure reflects best practices for carbon accounting and use of GHG credits to compensate for the GHG impacts of future development. Specifically, Mitigation Measure GHG-2 articulates the following.

- **Achievable and Enforceable Performance Standards.** The measure requires total GHG emissions from construction and operational GHG emissions from project area source, building natural gas, and mobile sources (proportional share inconsistent with 2022 Scoping Plan project

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<sup>25</sup> This map identifies recent CARB compliance credits, many of which are located throughout the United States and internationally in Canada: <https://webmaps.arb.ca.gov/ARBOCIssuanceMap/>.

attributes) over a 30-year analysis period be reduced to net zero (i.e., no-net increase over baseline). The County recognizes that project-generated construction emissions would occur over many years, with long-term operation of new development occurring annually thereafter. Mitigation Measure GHG-2 provides the flexibility to reduce emissions using phased approach that is commensurate with buildout of the plan. This requires development of a plan that outlines the schedule of implementation, identifies the GHG reduction commitment of each phase, and tracks achieved reductions relative to the overall performance-standard measure. The measure requires that the applicant develop the phasing plan prior to County approval of the tentative map, parcel map, or planned development permit.

- **Objective Criteria to Ensure that GHG Credits Achieve Real GHG Reductions.** Under 17 CCR 95972, all GHG credits purchased pursuant to Mitigation Measure GHG-2 must originate from a CARB-approved protocol, or a protocol that is equal to or more rigorous than CARB requirements. Implicit in this requirement is that all credits be real, permanent, quantifiable, verifiable, enforceable, and additional. These protocols also have criteria and procedures to ensure permanence of GHG credits, where applicable. All GHG credits must also originate from a CARB-approved registry (currently ACR, CAR, or Verra).
- **Consideration of Geographic Priorities.** Mitigation Measure GHG-2 requires GHG credits in geographies closest to the County be prioritized first over international, national, and state-wide credits. Although the geographic location of a GHG credit is irrelevant from a scientific standpoint, the County recognizes that GHG credit projects can achieve valuable co-benefits (e.g., improved air quality, reduced traffic congestion, improved energy security and/or resilience). When achieved locally in the County, these co-benefits directly benefit the community. The measure includes reasonable cost-containment standards with respect to geographic prioritization to ensure that the measure remains implementable. Local credits must be pursued if they are available and are of equal or lesser cost compared to the settlement price of the latest Cap-and-Trade auction.<sup>26</sup>
- **Strict Accounting of GHG Credit Types and their Expected Reduction Benefit Relative to Project Emissions.** The measure allows both GHG offsets and forecasted mitigation units (FMUs). *Offsets* are a type of GHG credit resulting from an emission-reduction project that has already occurred and is subject to rigorous monitoring and verification. Emission reductions achieved by GHG offsets have therefore already occurred or are already occurring (but would not have existed without a credit market). *FMUs* are a type of GHG credit resulting from a project that will occur in the future. FMUs are subject to the same rigorous monitoring and verification as GHG offsets. However, the ex-ante nature of FMUs requires additional consideration of resulting GHG reductions for the purposes of CEQA mitigation. Specifically, Mitigation Measure GHG-2 requires that any GHG credits from FMUs be funded and implemented within 5 years of emission of the project GHG emissions that they will mitigate. This is to account for the fact that CO<sub>2</sub> emissions (which will be the most-common project GHG-emissions type) reach their peak radiative effect on the atmosphere within the first 10 years of emissions (Ricke and Caldeira 2014). The measure further requires that any use of FMUs that result in a time lag between project emissions and their reduction by GHG credits be compensated through a prorated surcharge of additional FMUs proportional to the effect of the delay. Given the current and accelerating effects of climate change, the 5-year time restriction and FMU surcharge is

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<sup>26</sup> Auctions under the Cap-and-Trade program happen quarterly. Settlement prices for the past 13 auctions range from \$14.90 per metric ton to \$23.69 per metric ton (CARB 2021c).

necessary to ensure that Mitigation Measure GHG-2 appropriately compensates for any lag in temporal radiative forcing should FMUs be used as GHG credits.

- **Standards for Verification and Independent Review to Assure Transparency.** The measure requires that an independent, third-party entity verify that all GHG credits meet the performance standards of the measure (including adherence to the geographic prioritization scheme). The verifier must be approved by the ANSI National Accreditation Board or CARB.

The County recognizes that GHG credits are a tradable market commodity. Demand for voluntary GHG credits is driven by companies and individuals that take responsibility for reducing their own emissions, as well as entities that purchase pre-compliance GHG credits before emissions reductions are required by regulation. Recent studies predict that the voluntary carbon market will grow substantially over the next 30 years, expanding by 5 to 10 times the current (2020) levels by 2030 and 10 to 30 times the current levels by 2050 (Trove Research et al. 2021). As demand for voluntary GHG credits increase, so will costs, with the same study predicting costs to rise above \$50 per ton by 2040 (Trove Research et al. 2021). High-quality credits meeting the standards discussed above will be priced at a premium and will likely exceed this average estimate.

The potential for significant cost escalation in future markets creates economic uncertainty that must be considered and disclosed. Equally, opportunities to secure GHG credits meeting the extremely stringent requirements of Mitigation Measure GHG-2 may be constrained by competing markets and demand. Unforeseen circumstances (e.g., emission reversal) may also impede long-term implementation of Mitigation Measure GHG-2. Finally, as noted above, the performance standard for Mitigation Measure GHG-2 is calculated for a 30-year analysis period for operational area and energy sources. Although regulations are likely to reduce area- and energy-source emissions to net zero within this period (2040 to 2070), there is the possibility that GHG emissions from these sources could persist beyond the analysis period considered in this document. Ultimately, due to the plan-level nature of this analysis, coupled with the unknowns surrounding the future reduction technologies and the affordability of purchasing GHG credits, inherent uncertainty exists about the degree of mitigation that may ultimately be implemented to reduce potentially significant impacts. Consequently, although impacts could be reduced to a less-than-significant level with implementation of Mitigation Measure GHG-2, this document takes a conservative approach in its post-mitigation significance conclusion and discloses, for CEQA compliance purposes, that impacts on GHG emissions would be potentially significant and unavoidable.

**Mitigation Measure AQ-2b: Implement BMPs to reduce construction-related exhaust emissions during early construction.**

**Mitigation Measure AQ-2c: Require advanced off-road engines and newer onsite on-road trucks.**

**Mitigation Measure GHG-1: Implement BMPs to reduce construction-generated GHG emissions.**

The project applicant will require contractors, as a condition of contract, to reduce construction-related GHG emissions through the following measures. These BMPs are consistent with SMAQMD's (2020) recommended measures to reduce construction-generated GHG emissions.

- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to no more than 3 minutes (5-minute limit is required by the state airborne toxics

control measure [CCR Title 13 §§ 2449(d)(3) and 2485]). Provide clear signage at the entrances to the site that explains this requirement for workers.

- Maintain all construction equipment in proper working condition according to manufacturer's specifications, and train equipment operators in proper use of equipment. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated.
- Perform onsite material hauling with trucks equipped with on-road engines, as feasible.
- Ensure that alternatively fueled (e.g., biodiesel, electric, CARB approved low carbon fuel, such as renewable diesel) construction vehicles/equipment comprise at least 15 percent of the fleet.
- Encourage and provide carpools, shuttle vans, transit passes and/or secure bicycle parking for construction-worker commutes.
- Reduce electricity use in the construction office by using compact fluorescent bulbs, powering off computers every day, and replacing heating and cooling units with more-efficient ones.
- Recycle or salvage nonhazardous construction and demolition debris (goal of at least 75 percent by weight).
- Use locally sourced or recycled materials for construction materials (goal of at least 20 percent based on costs for building materials and volumes for roadway, parking lot, sidewalk and curb materials). Use wood products certified through a sustainable forestry program, as feasible.
- Minimize the amount of concrete for paved surfaces or utilize a low-carbon concrete option.
- Use SmartWay-certified trucks for deliveries where the haul distance exceeds 100 miles and a heavy-duty Class 7 or Class 8 semi-truck or 53-foot or longer box-type trailer for hauling. SmartWay-certified trucks are outfitted at point of sale or retrofitted with equipment that significantly reduces fuel use and emissions.

**Mitigation Measure GHG-2: Develop and implement a GHG reduction plan to reduce construction and operational area, mobile, and building natural gas GHG emissions.**

**Measure Performance Standards**

Prior to the County issuing approval of a small-lot tentative map, parcel map, and/or PD permit, the building permit applicant will submit a plan for County approval for reducing GHG emissions from: (a) construction; (b) operational GHG emissions from project area sources and building natural-gas combustion over a 30-year analysis period; and (c) operational GHG emissions from the share of project mobile sources over a 30-year analysis period inconsistent with the 2022 Scoping Plan (or future scoping plans) land use change and affordable housing project attribute.

Emissions from the 15-year construction period and from these operation sources over a 30-year analysis period have been quantified in this RDEIR. Total construction-sector, project-area-, building natural gas-, and mobile-source emissions over the 30-year analysis period are estimated to be 85,772 metric tons CO<sub>2</sub>e. This yields a reduction commitment of up to 85,772 metric tons of CO<sub>2</sub>e needed to achieve a no-net increase in project-related GHG emissions from these sources. Although this inventory could be used exclusively to inform the required

mitigation commitment, the methods used to quantify emissions in the RDEIR were conservative. Accordingly, this RDEIR likely overestimates actual GHG emissions that would be generated by the project. The project applicant may therefore reanalyze GHG emissions for any phase of the project to update the required reduction commitment to achieve net zero.

Any updated emissions analysis conducted for the project must be performed using EDCAQMD-, CARB-, or the USEPA-approved emissions models and quantification methods available at the time of the reanalysis. The analysis must use the latest-available engineering data for the project, inclusive of any required mitigation measures identified in the RDEIR that will reduce GHG emissions. Consistently with the methodology used in this RDEIR, emission factors may account for enacted regulations that will influence future-year emissions intensities (e.g., fuel efficiency standards for on-road vehicles). The building permit applicant will retain a qualified professional firm to conduct any revised emissions modeling. The building permit applicant will submit updates to the project emissions inventory and/or GHG credit commitment to the County for review and approval, which will include third-party review by a qualified consultant of the County's selection and be subject to building permit applicant reimbursement of consultant costs.

### **Plan Development**

Attempting to develop a fixed, rigid implementation strategy to cover 15 years of construction, followed by project operation, would be restrictive and potentially preclude the project applicant from pursuing future reduction technologies that could be economically or environmentally superior to options that are currently available.

Given the constraints associated with developing a fixed, rigid reduction plan to cover all project emissions subject to this measure, the plan may be developed and implemented over multiple phases. Because each subsequent emissions inventory could better account for the latest regulations and reduction technologies, this phased approach would provide implementation and management flexibility and enhance plan quality and accuracy. The first phase of the plan must identify the expected future phases, a schedule for reducing GHG emissions, and the needed quantity of GHG reductions remaining after each phase to attain the performance standard of this measure.

### **GHG Reduction Strategies**

Each phase of the plan will identify the GHG reduction strategies that will be implemented during that phase to achieve the performance standard. Strategies that could be used in formulating the plan are summarized below. GHG reduction strategies must be verifiable and feasible to implement. The plan will identify the entity responsible for implementing each strategy (if not the project applicant) and the estimated GHG reduction that will be achieved by implementation of the strategy. If the selected strategies are shown to exceed total net emissions of that phase, then the estimated surplus can be applied as a credit in future phase(s), as explained below.

Revisions to CEDHSP policies (a) are required and must be incorporated into the plan. Following policy revisions, the project applicant will prioritize selected strategies as: (b) onsite strategies; (c) offsite strategies; and (d) GHG credits. The order of priority for the location of selected strategies will be: (1) within the plan area; (2) within communities surrounding the plan area (e.g., Cameron Park); (3) throughout northern California; (4) in the State of California; (5) in the

United States; and (6) outside of the United States. If using offsite strategies or GHG credits, the plan must present substantial evidence to explain why higher priority strategies were deemed infeasible as defined under CEQA.

It is possible that some of the strategies could independently achieve the performance standard for the project. Various combinations of strategies could also be pursued to optimize total costs or community co-benefits. The project applicant will be responsible for determining the overall mix of strategies necessary to ensure that the performance standard to mitigate the significant GHG impact is met.

The list of strategies presented in this section is not exclusive. The project applicant may include additional or new strategies to reduce GHG emissions to the extent that they become commercially available and cost effective and earn a track-record for reliability in real-world conditions.

A. **Revisions to CEDHSP Policies:** The following CEDHSP policy revisions will be included as specific requirements of future small-lot tentative maps, parcel maps, and/or PD permits.

(1) **Onsite Solar Energy:** CEDHSP Policy 8.22 will be revised as follows:

*All Village Residential-Low and Village Residential Medium-Low developments will be required to install rooftop solar power to meet minimum baseload electricity needs (expected average system size is 4 kilowatts). Commercial, other residential, and public buildings will be designed to allow for the installation of renewable energy systems, including active solar, wind, or other emerging technologies. Where applicable, rooftop solar-PV arrays or solar water-heating systems will be installed in accordance with the State Fire Marshal's safety regulations and guidelines.*

(2) **Water Use:** CEDHSP Policy 8.37 will be revised as follows:

*Nonresidential indoor water use will be required to be reduced by a minimum of 30 percent, as demonstrated by the prescriptive fixture-based method or according to a water-use baseline, in accordance with CALGreen Nonresidential Voluntary Tier 1 Measures.*

(3) **Compost:** CEDHSP Policy 8.34 will be revised as follows:

*Onsite reuse of compost and mulch will be encouraged in privately owned gardens and landscaping and required within common landscaped areas in the Plan Area.*

(4) **Electrical Vehicle Charging:** CEDHSP Policy 8.4 will be revised as follows:

*Off-street parking in all Civic-Limited Commercial, Community Park, and High-Density Residential designations will provide dedicated parking for PEVs, minimum Level 2 PEV-charging stations will be installed in each dedicated PEV parking space, in accordance with CALGreen Nonresidential Tier 1 Voluntary Measures. Installation of 220/240-volt garage circuits to support PEVs will be required in all Village Residential-Low and Village Residential-Medium designations.*

(5) **Parking:** CEDHSP Policy 8.1 will be revised as follows:

*Limit off-street parking requirements to maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet).*

B. **Onsite Strategies:** Strategies to reduce onsite operational emissions may include, but are not limited to, the following.

- (1) **All-Electric Building Design:** The building permit applicant will use commercially reasonable standards to achieve all-electric building design. All water heaters in new residential developments will be either solar or electrically powered. The building permit applicant will ensure that all residential and nonresidential developments meet the State's Zero Net Energy standards, if and when adopted. Concurrently with submittal of the building permit application, the building permit applicant will submit documentation to the County demonstrating compliance with this mitigation measure. The County will ensure compliance prior to issuance of certificate of occupancy.
  - (2) **Use Natural Refrigerants:** The building permit applicant will use commercially reasonable standards to achieve use of natural alternatives to HFCs for building air conditioning equipment. Natural refrigerants include ammonia, CO<sub>2</sub>, or hydrocarbons. The County will require all development to meet CARB regulations restricting HFCs, if and when adopted. Concurrently with submittal of the building permit application, the applicant will submit documentation to the County demonstrating compliance with this mitigation measure. The County will ensure compliance prior to issuance of certificate of occupancy.
  - (3) **LEED Certification:** The building permit applicant will use commercially reasonable standards to achieve LEED Silver certification or higher through specific committed measures in the use of recycled and sustainable materials in construction, water efficiency, and efficiency of energy use. The United States Green Building Council is a private 501(c)3, nonprofit organization that promotes sustainability in building design, construction, and operation. The U.S. Green Building Council developed the LEED program, which provides a rating system that awards points for new construction based on energy use, materials, water efficiency, and other sustainability criteria. LEED has certification systems for both commercial and residential use. Concurrently with submittal of the building permit application, the applicant will submit to the County a copy of the LEED project registration for participating residential sites. Final LEED certification from Green Business Certification, Inc., will be provided to the County. The County will ensure compliance prior to issuance of certificate of occupancy. If LEED Silver certification were not achieved, then the building permit applicant must explain the circumstances that prevented certification.
  - (4) **Tenant Education:** The building permit applicant will provide education for residential and commercial tenants concerning electric-powered landscaping equipment. Prior to receipt of any certificate of final occupancy, the building permit applicant will work with EDCAQMD to develop electronic correspondence to be distributed by email to new residential and commercial tenants that encourages the purchase of electric-powered equipment to reduce GHG and criteria pollutant emissions.
- C. **Offsite Strategies:** Strategies to reduce offsite emissions may include, but are not limited to, the following.
- (1) **Transit:** The applicant will partner with EDCTA to support funding for high-quality transit service within the plan area. Where bus service is provided, the applicant will consider provision of transit amenities to increase ridership, including bus shelters and park-and-ride lots. The applicant may also fund or contribute funding to alternatively fueled transit buses, including electric buses.



- (2) **Energy Efficiency:** The applicant will partner with PG&E to fund or contribute to an energy efficiency improvement program to achieve reductions in residential and commercial natural gas and electricity usage. Potential building improvements may include energy-efficient appliances, energy-efficient boilers, installation of alternative water heaters in place of natural gas storage tank heaters, installation of induction cooktops in place of gas ranges, or installation of cool roofs or green roofs.
  - (3) **Renewable Energy:** The applicant will partner with PG&E to fund or contribute to community solar, wind, or other renewable-energy projects or programs. This could include providing funding to support utility programs that will allow homeowners to install solar-PV systems at zero or minimal up-front cost. All projects installed under this measure must be designed for high performance (e.g., optimal full-sun location, solar orientation) and additive to utility RPS goals.
  - (4) **Infrastructure:** The applicant will partner with PG&E to fund or contribute to community infrastructure projects (e.g., retirement of natural gas facilities) to support decarbonization of the electric power sector.
  - (5) **Pedestrian Access:** The applicant will partner with the County to fund or contribute to programs to increase sidewalk coverage to improve pedestrian access and interconnectivity of the pedestrian network.
  - (6) **Bicycle Lanes:** The applicant will partner with the County to fund or contribute to programs to construct or improve bicycle lane facilities (i.e., Class I, II, or IV) or bicycle boulevards.
  - (7) **Share Programs:** The applicant will partner with the County to fund or contribute to the deployment of neighborhood/city conventional or electric carshare or bikeshare programs.
- D. **GHG Credits:** All GHG credits must be created through a CARB-approved registry. These registries are currently the ACR, CAR, and Verra, although CARB may accredit additional registries in the future. These registries use robust accounting protocols for all GHG credits created for their exchange, including the six currently approved CARB protocols. This mitigation measure specifically requires GHG credits created for the project originate from a CARB-approved protocol or a protocol that is equal to or more rigorous than CARB requirements under 17 CCR 95972. The selected protocol must demonstrate that the GHG-emissions reductions are real, permanent, quantifiable, verifiable, enforceable, and additional. Definitions of these terms from 17 CCR 95802(a) are provided below (Note: the original text used the term *offset*, which has been replaced in the text below with the generic term *GHG credit* because this measure allows for use of both offsets and FMUs).
- (1) **Real:** GHG reductions or enhancements result from a demonstrable action or set of actions and are quantified using appropriate, accurate, and conservative methodologies that account for all GHG emissions sources, GHG sinks, and GHG reservoirs within the [GHG credit] project boundary and account for uncertainty and the potential for activity-shifting and market-shifting leakage.
  - (2) **Additional:** GHG reductions or removals that exceed any GHG reduction, or removals otherwise required by law, regulation, or legally binding mandate, and that exceed any GHG reductions or removals that would otherwise occur in a conservative BAU scenario.

- (3) **Permanent:** GHG reductions and removal enhancements are not reversible or, when GHG reductions and GHG-removal enhancements may be reversible, mechanisms are in place to replace any reversed GHG-emission reductions and GHG-removal enhancements to ensure that all credited reductions endure for at least 100 years.
- (4) **Quantifiable:** The ability to accurately measure and calculate GHG reductions or GHG-removal enhancements relative to a project baseline in a reliable and replicable manner for all GHG emission sources, GHG sinks, or GHG reservoirs included within the [GHG credit] project boundary, while accounting for uncertainty, activity-shifting, and market-shifting leakage.
- (5) **Verifiable:** A [GHG credit] project report assertion is well-documented and transparent such that it lends itself to an objective review by an accredited verification body.
- (6) **Enforceable:** The authority for CARB to hold a particular party liable and take appropriate action if any of the provisions of this article are violated. Note that this definition of *enforceability* is specific to the Cap-and-Trade regulation, where CARB holds enforcement authority, but this measure will employ GHG credits from the voluntary market, where CARB has no enforcement authority. Applying the definition to this mitigation measure means that GHG reductions must be owned by a single entity and backed by a legal instrument or contract that defines exclusive ownership.

### Geographic Prioritization of GHG Credits

GHG credits from reduction projects in the County will be prioritized before projects in larger geographies (i.e., northern California, California, United States, and international). The applicant will inform brokers of the required geographic prioritization for the procurement of GHG credits. GHG credits from reduction projects identified in the County that are of equal or lesser cost compared to the settlement price of the latest Cap-and-Trade auction must be included in the transaction. GHG credits from reduction projects outside of the County may be purchased if adequate credits cannot be found in the County or if they exceed the maximum price identified above. The economic and geographic analysis undertaken to inform the selection of GHG credits must be provided by the applicant to the County as part of the required documentation discussed below under *Plan Implementation and Reporting*.

### Types of GHG Credits

GHG credits may be in the form of GHG offsets for prior reductions of GHG emissions verified through protocols or FMUs for future committed GHG emissions meeting protocols. Because emissions reductions from GHG offsets have already occurred, their benefits are immediate and can be used to compensate for an equivalent quantity of project-generated emissions at any time. GHG credits from FMUs must be funded and implemented within 5 years of project GHG emissions to qualify as a GHG credit under this measure (i.e., there can only be a maximum of 5 years lag between project emissions and their real-world reductions through funding a FMU in advance and implementing the FMU on the ground). Any use of FMUs that result in a time lag between project emissions and their reduction by GHG credits from FMUs must be compensated through a prorated surcharge of additional FMUs proportional to the effect of the delay. Because emissions of CO<sub>2</sub> in the atmosphere reach their peak radiative forcing within 10 years, a surcharge of 10 percent for every year of lag between project emissions and their reduction through a FMU will be added to the GHG credit requirement (i.e., 1.10 FMUs would be required

to mitigate 1 metric ton of project GHG emissions generated in the year prior to funding and implementation of the FMU).

### **Verification and Independent Review of GHG Credits**

All GHG credits will be verified by an independent verifier accredited by the ANSI National Accreditation Board (ANAB) or CARB, or an expert with equivalent qualifications to the extent necessary to assist with the verification. Following the standards and requirements established by the accreditation board (i.e., ANAB or CARB), the verifier will certify the following.

- GHG credits conform to a CARB-approved protocol or a protocol that is equal to or more rigorous than CARB requirements under 17 CCR 95972. Verification of the latter requires certification that the credits meet or exceed the standards in 17 CCR 95972.
- GHG credits are real, permanent, quantifiable, verifiable, enforceable, and additional, as defined in this measure.
- GHG credits are purchased according to the geographic prioritization standard defined in this measure under *Geographic Prioritization of GHG Credits*.

Verification of GHG offsets must occur as part of the certification process for compliance with the accounting protocol. Because FMUs are GHG credits that will result from future projects, additional verification must occur beyond initial certification is required. Verification for FMUs must include initial certification and independent verification every 5 years over the duration of the FMU generating the GHG credits. The verification will examine both the GHG credit realization on the ground and its progress toward delivering future GHG credits. The applicant will retain an independent verifier meeting the qualifications described above to certify reductions achieved by FMUs are achieved following completion of the future reduction project.

### **Plan Implementation and Reporting**

As described above, the plan may be developed and implemented over multiple phases. Prior to the start of each phase, the project applicant will update the plan to calculate the amount of GHG emissions anticipated in the covered phase, as well as emissions from prior phases (if applicable) and the projected total net emissions of the project. The plan will identify the specific GHG reduction strategies that will be implemented to meet the performance standard for the covered phase and quantify the expected reductions that will be achieved by each strategy. All emissions and reductions will be quantified in accordance with the requirements outlined above.

The applicant will retain a qualified professional firm to assist with its review and approval of the plan. Subsequent amendments to the plan will identify reductions that have been achieved during prior phases and determine if those reductions exceed emissions generated by the project. If the GHG reduction strategies implemented by the applicant result in a surplus of reductions above the performance standard, then the balance of those reductions may be credited to subsequent phases.

The applicant will prepare the plan (or first phase of the plan) prior to the County issuing approval of a small-lot tentative map, parcel map, and/or PD permit. If the applicant elects to use a phased approach, then the first phase of the plan must identify the expected future phases and schedule for amending the plan to cover future phases. The final phase of the plan must

address operational emissions over a 30-year period, accounting for regulations adopted at that time that will reduce project emissions.

Revisions to CEDHSP policies and selected onsite strategies will be included as specific requirements of future small-lot tentative maps, parcel maps, and/or PD permits. Selected offsite strategies will be completed or operational before completion of the applicable phase. If GHG credits are pursued, then the applicant will enter the necessary contract(s) to purchase credits prior to the start of each phase. All credits must be retired before completion of the applicable phase.

The applicant will conduct annual reporting to verify and document that selected strategies achieve sufficient emissions reductions to mitigate project emissions. Each report should describe the GHG reduction strategies implemented over the prior year, summarize past, current, and anticipated project phasing, document compliance with plan requirements, and identify corrective actions (if any) that are needed to ensure that the plan achieves the performance standard. If GHG credits have been purchased to reduce emissions for the reporting year, then the annual report must include copies of the offset retirement verification.

### **Impact GHG-2: Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs (significant and unavoidable)**

#### **Metropolitan Transportation Plan and Sustainable Communities Strategy**

The MTP/SCS provides a long-range framework to minimize transportation impacts on the environment, improve regional air quality, protect natural resources, and reduce GHG emissions. The MTP/SCS is consistent with SB 375, which requires SACOG to adopt an SCS that outlines policies to reduce per-capita GHG emissions from passenger vehicles. The SCS policies include a mix of strategies that target smart growth, mixed-used design, alternative transportation, transit, mobility and access, network expansion, and transportation investment.

Implementation of the SCS is intended to improve the efficiency of the transportation system and achieve a variety of housing types throughout the SACOG region that meet market demands in a balanced and sustainable manner. Consistent with SACOG goals, the CEDHSP would create a mixed-used, pedestrian-friendly, and walkable community. The land use design would minimize off-street parking to help reduce vehicle trips and support alternative transportation. CEDHSP policies would also provide short- and long-term bicycle parking, as well as dedicated parking for PEV and pre-wiring for future PEV-charging stations. These policies would support alternative transportation within the community, which could help reduce per-capita GHG emissions from passenger vehicles consistent with SACOG's MTP/SCS. This impact would be less than significant.

#### **2017 Scoping Plan/SB 32**

The 2017 Scoping Plan built on the programs set in place as part of the previous AB 32 Scoping Plan that was drafted to meet the 2020 reduction targets per AB 32. The 2017 Scoping Plan proposed meeting the 2030 goal by accelerating the focus on zero and near-zero technologies for moving freight, continued investment in renewables, greater use of low-carbon fuels, including electricity and hydrogen, stronger efforts to reduce emissions of short-lived climate pollutants (i.e., CH<sub>4</sub> and fluorinated gases), further efforts to create walkable communities with expanded mass transit and other alternatives to traveling by car, continuing the Cap-and-Trade program, and ensuring that

natural lands become carbon sinks to provide additional emissions reductions and flexibility in meeting the target (CARB 2017b).

In general, the CEDHSP is built around the concept of sustainability. This is manifested through increased mixed-use and green building principles, including an emphasis on energy efficiency, water conservation, and waste reduction. Although the measures included in the 2017 Scoping Plan are necessarily broad, the CEDHSP is generally consistent with the goals and desired outcomes of the plan (i.e., increasing energy efficiency, water conservation, waste diversion, transportation sustainability.). The consistency of the CEDHSP with the policies in the 2017 Scoping Plan is analyzed in Table 3.6-10.

**Table 3.6-10. CEDHSP Consistency with 2017 Scoping Plan Policies**

Policy	Primary Objective	CEDHSP Consistency Analysis
SB 350	Reduce GHG emissions in the electricity sector through the implementation of the 50% RPS, doubling of energy savings, and other actions as appropriate to achieve GHG emissions reductions planning targets in the Integrated Resource Plan process.	This policy is a state program that requires no action at the local or project level. Nonetheless, development of new land uses under the CEDHSP would be consistent with the energy-saving objective of this measure. The CEDHSP includes policies that support natural cooling and passive solar heating through building placement and orientation, using vegetation and light-colored paints to shade buildings to limit direct solar gain and glare, using energy-efficient appliances, exceeding energy-efficiency standards, and installing solar PV panels and/or solar hot water systems. These policies would reduce energy demands.
Low Carbon Fuel Standard	Transition to cleaner/less-polluting fuels that have a lower carbon footprint.	This policy is a state program that requires no action at the local or project level. Nonetheless, development of new land uses under the CEDHSP would support reducing the carbon footprint associated with vehicle travel. CEDHSP policies would create a mixed-use, pedestrian-friendly, and walkable community. The land use design would minimize off-street parking to help reduce vehicle trips and support alternative transportation. CEDHSP policies would also provide short- and long-term bicycle parking, as well as dedicated parking for PEV and pre-wiring for future PEV-charging stations.
Mobile Source Strategy (Cleaner Technology and Fuels Scenario)	Reduce GHGs and other pollutants from the transportation sector through transition to zero-emission and low-emission vehicles, cleaner transit systems, and reduction of VMT.	This policy is a state program that requires no action at the local or project level. Nonetheless, development of new land uses under the CEDHSP would support the reduction of VMT. The CEDHSP includes a number of policies that will support alternative transportation, electric vehicles, and overall reductions in vehicle trips.
SB 1383	Approve and implement a SLCP strategy to reduce highly potent GHGs.	This policy is a state program that requires no action at the local or project level and is not directly applicable to the CEDHSP.

Policy	Primary Objective	CEDHSP Consistency Analysis
California Sustainable Freight Action Plan	Improve freight efficiency, transition to zero-emission technologies, and increase competitiveness of California’s freight system.	This policy is a state program that requires no action at the local or project level and is not directly applicable to the CEDHSP.
Post-2020 Cap and-Trade Program	Reduce GHGs across largest GHG emissions sources.	This policy is a state program that requires no action at the local or project level and is not directly applicable to the CEDHSP.

CEDHSP = Central El Dorado Hills Specific Plan; GHG = greenhouse gas; PEV = plug-in electric vehicle; RPS = Renewables Portfolio Standard; SB = Senate Bill; SLCP = Short-Lived Climate Pollutant; VMT = vehicle miles traveled.

Although the CEDHSP is consistent with the broad policy objectives of the 2017 Scoping Plan, it includes development that could generate emissions that conflict with the State’s ability to achieve its 2030 reduction target; thus, it could conflict with the 2017 Scoping Plan. This consistency analysis is presented in detail under Impact GHG-1. Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c include a diverse suite of actions that will reduce emissions in the amount of the proposed project’s contribution of construction and operational area and building natural-gas source emissions to achieve a no-net increase in project-related GHG emissions and also to reduce operational mobile-source emissions to achieve consistency with the 2022 Scoping Plan land use change and affordable housing project attributes. Although impacts could be reduced to a less-than-significant level with implementation of Mitigation Measures GHG-1, GHG-2, AQ-2b and AQ-2c, this EIR takes a conservative approach in its post-mitigation significance conclusion and discloses, for CEQA compliance purposes, that operation of the project could impede implementation of the 2017 Scoping Plan. This impact would be significant and unavoidable.

### Other State Regulations

Systemic changes will be required at the state level to achieve the statewide future GHG-reduction goals. Regulations, such as the SB 100/1020–mandated 100-percent carbon-free RPS by 2045; implementation of the state’s SLCP Reduction Strategy; and future updates to CCR Title 24 standards (including requirements for net zero-energy buildings), will be necessary to attain the magnitude of reductions required for the state’s goals. The CEDHSP would be required to comply with these regulations in new construction (in the case of updated CCR Title 24 standards) or would be directly affected by the outcomes (e.g., energy consumption would be less carbon-intensive due to the increasingly stringent RPSs). Unlike the Scoping Plans, which explicitly call for additional emissions reductions from local governments and new projects, none of these state regulations identify specific requirements or commitments for new development beyond what is already required by existing regulations or will be required in forthcoming regulations. Thus, for the foreseeable future, the CEDHSP would not conflict with any other state-level regulations pertaining to GHGs in the post-2020 era, and this impact would be less than significant.

### 2022 Scoping Plan/AB 1279

Based on CARB’s 2022 Scoping Plan, the 2045 milestone of reducing anthropogenic GHG emissions to 85-percent below 1990 levels and achieving carbon neutrality requires an aggressive reduction of fossil fuels wherever they are currently used in California, building on and accelerating carbon-reduction programs that have been implemented by the previous Scoping Plans. The 2022 Scoping Plan indicates that reductions would need to take the form of changes pertaining to transportation emissions, changes pertaining to sources of electricity and increased energy efficiency at existing

facilities, and state and local plans, policies, or regulations that will lower GHG emissions relative to BAU conditions. Independent studies have reached similar conclusions. Deep reductions in GHG emissions can be achieved only with significant changes in electricity production, transportation fuels, and industrial processes. For example, a Center for Climate and Energy Solutions report notes that “achieving climate neutrality requires a broad array of social, economic, and technological transformations—in essence, reinventing the ways we power our homes and economies, move people and goods from place to place, and manage our lands” (Lempert et al. 2019).

The systemic changes needed to achieve the state’s long-term GHG-reduction goals will require significant policy, technical, and economic solutions. Decarbonization of the transportation-fuel supply will require electric, hybrid, and PEV vehicles to comprise most light-duty vehicles. Some changes, such as the use of biofuels to replace petroleum for aviation, cannot be accomplished without action by the federal government. Furthermore, achieving the long-term GHG-reduction goals will require California to dramatically increase the amount of electricity that is generated by renewable-generation sources and, correspondingly, advance the deployment of energy-storage technologies and smart-grid strategies, such as price-responsive demand and smart-charging vehicles. This would entail a significant redesign of California’s electricity system.

In qualitatively evaluating the proposed project’s emissions for consistency with the 2022 Scoping Plan, it is important to note that some of these broad-scale shifts in how energy is produced and used are outside of the control of the proposed project. The changes necessitated by the state’s long-term climate policy will require additional policy and regulatory changes, which are unknown at this time. Therefore, the extent to which the project’s emissions and resulting impacts would be mitigated through implementation of such changes is not known and cannot be known at this time. Furthermore, implementation of such additional policy and regulatory changes is within the jurisdiction of state-level agencies (e.g., CARB), not the County. However, some of these measures (e.g., decarbonization, energy efficiency, reduced fossil-fuel-based VMT) can be facilitated, at least to some extent, through implementation of specific GHG-reduction measures. Under this same rationale, if the CEDHSP did not implement measures to maximize energy efficiency or utilize renewable energy, then the reductions may not be sufficient for an individual project to meet the aggressive long-term cumulative-reduction goals.

As discussed in Section 3.3.2.2, *Thresholds of Significance*, the 2022 Scoping Plan outlined project attributes related to transportation electrification, VMT reduction, and building decarbonization. These “project attributes are intended as a guide to help local jurisdictions qualitatively identify those residential and mixed-use projects that are clearly consistent with the State’s climate goals” (CARB 2022a). Projects that incorporate all attributes “are considered to be consistent with the Scoping Plan or other plans, policies, or regulations adopted for the purposes of reducing GHGs” (CARB 2022a). As shown in Table 3.6-7, the CEDHSP does not include all required 2022 Scoping Plan attributes related to VMT reduction. Although the CEDHSP encourages energy efficiency and onsite renewable energy, not all buildings will be designed without natural-gas appliances. The continued consumption of fossil fuels by CEDHSP buildings would conflict with building-decarbonization project attribute. This is a significant impact without mitigation.

CEDHSP policies and Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c are consistent with anticipated long-term statewide strategies to reduce GHG emissions. It is possible that future-adopted state and federal actions would reduce project emissions below a level consistent with the reduction targets of AB 1279, but this cannot be known at this time. Mitigation Measure GHG-2 also requires GHG reductions in the amount of the project’s contribution of area, construction, and

building natural-gas emissions to achieve a no-net increase in project-related GHG emissions, and also to reduce operational mobile-source emissions to achieve consistency with the 2022 Scoping Plan land use change and affordable-housing project attributes. Although impacts could be reduced to a less-than-significant level with implementation of Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c, this EIR takes a conservative approach in its post-mitigation significance conclusion and discloses, for CEQA compliance purposes, that the project could substantially contribute to a significant cumulative impact.

## **Conclusion**

The CEDHSP would be consistent with SACOG's MTP/SCS and state regulations that will reduce GHG emissions (e.g., SB 100, SLCP Reduction Strategy). However, although the CEDHSP policies and Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c are consistent with anticipated long-term statewide strategies to reduce GHG emissions, they may not be adequate on their own to reduce project-level emissions consistent with the levels required to meet statewide climate-change goals. Accordingly, it is conservatively concluded that the project's emission levels would be inconsistent with the goals of 2017 Scoping Plan/SB 32 and 2022 Scoping Plan/AB 1279. Therefore, this impact would be significant and unavoidable.

**Mitigation Measure AQ-2b: Implement BMPs to reduce construction-related exhaust emissions during early construction.**

**Mitigation Measure AQ-2c: Require advanced off-road engines and newer onsite on-road trucks.**

**Mitigation Measure GHG-1: Implement BMPs to reduce construction-generated GHG emissions.**

**Mitigation Measure GHG-2: Develop and implement a GHG reduction plan to reduce construction and operational area, mobile, and building natural gas GHG emissions.**



This chapter includes a revised discussion of air quality and GHG impacts for each of the alternatives. Discussions of other resources are not revised. Proposed additions are shown in underline; any deletions are shown in ~~strikeout~~.

## 4.1 Alternatives Overview

CEQA requires that an EIR include a reasonable range of feasible alternatives to the project that meet most or all project objectives while reducing or avoiding one or more significant impacts of the project. According to State CEQA Guidelines Section 15126.6(f), the range of alternatives required in an EIR is governed by a “rule of reason” that requires an EIR to set forth only those alternatives necessary to allow a reasoned choice. An EIR need not consider every conceivable alternative to a project. Instead, the discussion of alternatives must “focus on alternatives to the project or its location which are capable of avoiding or substantially lessening any significant effects of the project.” Where a potential alternative is examined but not chosen as one of alternatives, the State CEQA Guidelines require that an EIR briefly discuss the reasons the alternative was dismissed. An EIR is not required to consider alternatives which are infeasible. In addition to a range of alternatives, an EIR must discuss the “No-Project Alternative,” which describes the reasonably foreseeable probable future conditions if the project is not approved (State CEQA Guidelines Section 15126.6).

The lead agency must consider the alternatives discussed in an EIR before acting on a project. The agency is not required to adopt an alternative that may have environmental advantages over the project if specific economic, social, or other conditions make the alternative infeasible (Public Resources Code [PRC] ~~Section~~ § 21002).

This chapter describes the alternatives to the CEDHSP and compares the anticipated environmental impacts of the alternatives to those of the proposed project, analyzed in [Second Recirculated DEIR] Chapter 3, *Impact Analysis*, Sections 3.1 through 3.14.

Based on comments received on the Final EIR and public meetings before the Planning Commission, two additional alternatives were included in the Second Partial Recirculated ~~R~~DEIR: Alternative 4—Zoning-Consistent, and Alternative 5—Senior Living. The Zoning-Consistent Alternative identifies use types and development potential based on current zoning for the project site. The Senior Living Alternative focuses on age-restricted independent and assisted living uses.

## 4.2 Alternatives Development and Screening Criteria

The alternative screening criteria are listed here and are described below in detail.

- **Ability to Meet Project Objectives:** The extent to which the alternative fulfills the project’s objectives.

- **Impact Avoidance:** The extent to which the alternative substantially avoids, minimizes, reduces, or eliminates an impact associated with the proposed project.
- **Feasibility:** The extent to which the alternative is potentially capable of being accomplished given economic, environmental, legal, social, and technological factors.

Through this screening process, alternatives were considered and included for further analysis in the ~~Draft~~ DEIR or removed from further consideration. Those alternatives that meet the project objectives, ~~that~~ would reduce one or more project impacts, and ~~that~~ appear feasible are discussed in greater detail in Section 4.3, *Alternatives Analysis*. Those alternatives that were considered but removed from further consideration are described below under Section 4.5, *Alternatives Considered but Dismissed from Further Analysis in the EIR*.

## 4.2.1 Ability to Meet Project Objectives

The County's primary objective for the proposed project, as described in Chapter 2, *Project Description*, is to create development patterns that make the most efficient and feasible use of existing infrastructure and public services while promoting a sense of community as envisioned by the County's General Plan. There are an additional 15 objectives of the proposed project, as follows.

- Fulfill regional land use objectives by achieving ~~Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS)~~ consistency. Establish new development that fulfills regional land use objectives by directing growth to the established community of El Dorado Hills and achieving consistency with SACOG's adopted ~~2035~~ 2020 MTP/SCS.
- ***Curtail suburban sprawl.*** Curtail suburban sprawl (County General Plan Goal 2.1) by utilizing undeveloped infill sites and promoting mixed-use development patterns to accommodate the County's future population growth and support economic expansion.
- ***Assist in meeting future Regional Housing Needs Allocations (RHNA) needs.*** Assist in meeting the County's RHNA for the 2022–2030 Housing Element Update by introducing new lands zoned multifamily.
- ***Broaden the housing stock in El Dorado Hills.*** Maximize opportunities for higher-density housing as an alternative to single-family detached dwellings. Offer land uses to accommodate various lot sizes, densities, and product types to satisfy the market demands of existing and future household types, sizes, and income levels (County General Plan Goal HO-1), including the senior population (County General Plan Goal HO-4).
- ***Provide a strong community identity and quality built environment.*** Establish a community setting with an identifiable character and a visually attractive design theme that is compatible with the surrounding area and contributes to the quality of life and economic health (County General Plan Goal 2.4). Carefully plan and incorporate visual elements that enhance and promote a sense of community (County General Plan Goal 2.5) and provide quality residential environments for all income levels (County General Plan Goal HO-2).
- ***Utilize existing infrastructure and public services.*** Promote compact land use patterns in Community Regions to maximize existing public services, such as water, wastewater, parks, schools, solid waste, fire protection, law enforcement, and libraries, thus accommodating new growth in an efficient manner (County General Plan Goal 5.1).

- **Improve connectivity of the regional roadway network.** Provide an opportunity for the County to expand its regional roadway network and improve parallel capacity to ~~U.S. Highway 50~~ (US 50).
- **Encourage future transit opportunities.** Locate development in the El Dorado Hills Community Region within walking distance of El Dorado Hills Boulevard to improve the feasibility of future transit services, thus reducing traffic congestion, and offer alternative transportation choices to a range of users (County General Plan Goal TC-2).
- **Create a new nonmotorized transportation system.** Create a new nonmotorized transportation system (County General Plan Goal TC-4) linking new development to existing retail services. Incorporate Class I bike paths, “complete streets” with Class II bike lanes, and sidewalks in new development to promote alternative transportation modes and reduce vehicle miles traveled.
- **Improve north-south pedestrian and bicycle connectivity.** Reduce barriers to pedestrians created by US 50 and improve access between the north and south sides of the freeway and improve pedestrian and bicycle safety.
- **Provide opportunities for recreational facilities in El Dorado Hills.** Provide recreational facilities for the health and welfare of residents and visitors (County General Plan Goal 9.1), thus promoting opportunities to capitalize on recreational uses through tourism and recreational-based businesses and industries (County General Plan Goal 9.3).
- **Maintain characteristics of natural landscape.** Maintain natural landscape features, including ridgelines (County General Plan Goal 2.3), conserve existing natural resources for ecological value (County General Plan Goal 7.4), and conserve open space to provide for the enjoyment of scenic beauty (County General Plan Goal 7.6).
- **Minimize impacts on oak woodlands.** Minimize impacts on the oak woodlands by directing new development to areas with minimal or little oak canopy.
- **Protect important cultural resources.** Protect the County’s important cultural resources (County General Plan Goal 7.5), including significant pre-historic and Native American resources and unique historical features of the County’s Gold Rush history.
- **Foster sustainable communities.** Foster sustainable communities (County General Plan Goal 2.1) by utilizing sustainable design practices to reduce ~~greenhouse gas~~ GHG emissions and increase the efficiency of energy and water use in new development (County General Plan Goal HO-5).

## 4.2.2 Impact Avoidance

In addition to identifying feasible mitigation for a proposed project’s impacts, a lead agency must also consider alternatives that could provide a means of avoiding altogether or reducing the level of impact that would otherwise result from implementation of a project. The following significant impacts would result from the proposed project. These impacts are analyzed in detail in Second Recirculated DEIR Chapter 3, *Impact Analysis*, Sections 3.1 through 3.14.

### 4.2.2.1 Significant and Unavoidable Impacts

#### Air Quality

- **Impact AQ-1 and AQ-1 CUM:** Conflict with or obstruct implementation of the applicable air quality plan
- **Impact AQ-2b and AQ-2b CUM:** Violate any air quality standard or contribute substantially to an existing or projected air quality violation during operation
- **Impact AQ-3a and AQ-3a CUM:** Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors) Expose sensitive receptors to substantial toxic air contaminant concentrations and health risks during construction

#### Cultural Resources

- **Impact CUL-1 CUM:** Cause a substantial adverse change in the significance of an archaeological resource that is a historical resource as defined in Section 15064.5.

#### Greenhouse Gas Emissions (added as part of the 2016 Recirculated DEIR)

- **Impact GHG-1 and GHG-1 CUM:** Generate ~~greenhouse~~ GHG emissions, either directly or indirectly, that may have a significant impact on the environment ~~during operation~~
- **Impact GHG-2 and GHG-2 CUM:** Conflict with applicable plan, policy or regulation adopted for the purpose of reducing emissions of ~~greenhouse gas~~ GHGs

#### Noise and Vibration

- **Impact NOI-1a:** Expose persons to or generate noise levels in excess of standards established in the General Plan as a result of construction activities
- **Impact NOI-4:** Result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project during construction
- **Impact NOI-5:** Be located within an airport land use plan area, or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport and expose people residing or working in the project area to excessive noise levels

### 4.2.2.2 Significant Impacts That Can Be Mitigated to Less-than-Significant Levels

#### Aesthetics

- **Impact AES-2:** Have a substantial adverse effect on a scenic vista
- **Impact AES-4:** Substantially degrade the existing visual character or quality of the site and its surroundings

## Air Quality

- **Impact AQ-2a:** Violate any air quality standard or contribute substantially to an existing or projected air quality violation during construction Result in a cumulatively considerable net increase of any criteria pollutant during construction for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard
- **Impact AQ-2c and AQ-2c CUM:** Violate any air quality standard or contribute substantially to an existing or projected air quality violation during combined construction and operation Result in a cumulatively considerable net increase of any criteria pollutant during combined construction and operation for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard
- **Impact AQ-3c:** Expose sensitive receptors to substantial criteria pollutant concentrations during construction and operation
- **Impact AQ-3d:** Expose sensitive receptors to naturally occurring asbestos and associated health risks during construction
- **Impact AQ-4d:** Expose sensitive receptors to naturally occurring asbestos during construction
- **Impact AQ-5:** Result in a cumulatively considerable net increase of any criteria pollutant, expose sensitive receptors to substantial pollutant concentrations, or generate odors as a result of construction and operations of offsite improvements

## Biological Resources

- **Impact BIO-1:** Loss of oak woodland canopy and oak woodland habitat
- **Impact BIO-2:** Loss of riparian woodland
- **Impact BIO-3:** Loss of jurisdictional wetlands, including seasonal wetlands, seasonal wetland swales, and seeps
- **Impact BIO-4:** Loss of other waters of the United States, including intermittent drainages, drainage ditches/roadside ditches, and ponds
- **Impact BIO-5:** Potential impacts on special-status plant species within CEDHSP project area
- **Impact BIO-6:** Potential mortality or disturbance of California red-legged frog within the CEDHSP project area
- **Impact BIO-7:** Potential mortality or disturbance of Pacific pond turtle within the CEDHSP project area
- **Impact BIO-8:** Potential mortality or disturbance of Blainville's horned lizard within the CEDHSP project area
- **Impact BIO-9:** Potential mortality or disturbance of nesting special-status and non-special-status birds within the CEDHSP project area
- **Impact BIO-10:** Potential injury, mortality, or disturbance of tree-roosting bats and removal of roosting habitat within the CEDHSP project area
- **Impact BIO-11:** Interfere with the movement of resident or migratory wildlife
- **Impact BIO-13:** Potential introduction and spread of invasive plant species

- **Impact BIO-14:** Potential loss of sensitive natural communities within the offsite infrastructure improvement areas
- **Impact BIO-15:** Potential loss of waters of the United States within the offsite infrastructure improvement areas
- **Impact BIO-16:** Potential impacts on special-status plant species within the offsite infrastructure improvement areas
- **Impact BIO-17:** Potential mortality or disturbance of listed vernal pool branchiopods and their habitat within offsite infrastructure improvement areas
- **Impact BIO-18:** Loss or disturbance of valley elderberry longhorn beetle and its habitat within offsite infrastructure improvement areas
- **Impact BIO-19:** Potential mortality or disturbance of California red-legged frog within offsite infrastructure improvement areas
- **Impact BIO-20:** Potential mortality or disturbance of Pacific pond turtle within offsite infrastructure improvement areas
- **Impact BIO-21:** Potential mortality or disturbance of Blainville's horned lizard within offsite infrastructure improvement areas
- **Impact BIO-22:** Potential mortality or disturbance of nesting special-status and non-special-status birds within offsite infrastructure improvement areas
- **Impact BIO-23:** Potential injury, mortality, or disturbance of tree-roosting bats and removal of roosting habitat within offsite infrastructure improvement areas

### **Cultural Resources**

- **Impact CUL-1:** Cause a substantial adverse change in the significance of an archaeological resource that is a historical resource as defined in State CEQA Guidelines Section 15064.5
- **Impact CUL-3:** Disturb any human remains, including those interred outside of formal cemeteries
- **Impact CUL-4:** Result in disturbance to or destruction of cultural resources as a result of offsite improvements

### **Geology, Soils, Minerals, and Paleontological Resources**

- **Impact GEO-4:** Result in fracturing and/or erosion from special construction methods that could result in unstable geologic or soil conditions
- **Impact GEO-9:** Directly or indirectly destroy a unique paleontological resource
- **Impact GEO-10:** Impacts on geological, mineral and paleontological resources resulting from offsite improvements

### **Hazards and Hazardous Materials**

- **Impact HAZ-9:** Create a significant hazard to the public or the environment as a result of offsite improvements

## Hydrology, Water Quality, and Water Resources

- **Impact WQ-6:** Otherwise substantially degrade water quality
- **Impact WQ-11:** Impacts on hydrology and water quality resulting from offsite improvements

## Noise and Vibration

- **Impact NOI-1b:** Expose persons to or generate noise levels from project-generated traffic in excess of standards established in the General Plan
- **Impact NOI-1c:** Expose persons to or generate noise levels in excess of standards established in the General Plan for stationary or non-transportation noise sources during project operation
- **Impact NOI-2:** Expose persons to or generate excessive ground-borne vibration or ground-borne noise levels
- **Impact NOI-3:** Result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project
- **Impact NOI-7:** Result in noise impacts due to activities associated with project offsite improvements

## Public Services and Utilities

- **Impact PSU-3:** Require or result in the construction of new wastewater treatment or conveyance facilities or the expansion of existing facilities, the construction of which could cause significant environmental effects
- **Impact PSU-4:** Require or result in the construction of new water treatment or conveyance facilities or the expansion of existing facilities, the construction of which could cause significant environmental effects
- **Impact PSU-5:** Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects

## Traffic and Circulation

- **Impact TRA-1:** Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation, including mass transit and on-motorized travel and relevant components of the circulation system, including, but not limited to, intersections, streets, highways and freeways, pedestrians and bicycle paths, and mass transit
- **Impact TRA-5:** Result in inadequate emergency access
- **Impact TRA-6:** Conflict with adopted policies, plans, or programs regarding public transit, bicycle or pedestrian facilities, or otherwise decrease the performance or safety of such facilities
- **Impact TRA-8:** Result in inadequate emergency access as a result of offsite improvements

### 4.2.3 Feasibility

CEQA requires that alternatives considered in an EIR be feasible. State CEQA Guidelines Section 15364 of the State CEQA Guidelines defines *feasible* as “capable of being accomplished in a

successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.” CEQA does not require that an EIR determine the ultimate feasibility of a selected alternative, but rather that an alternative probably be feasible. Factors considered in determining an alternative’s feasibility included site suitability, infrastructure availability, general plan consistency, consistency with other plans and regulatory limitations, jurisdictional boundaries, economic viability, and whether an alternate site could reasonably be acquired.

## 4.3 Alternatives Analysis

After the screening process, the County determined that two alternatives—a reduced-density alternative and a reduced-wetland-impact alternative—would fulfill the CEQA requirements of meeting most of the project objectives, being feasible, and reducing or eliminating project impacts. In addition, a No-Project Alternative must be considered in an EIR. Therefore, the following alternatives are evaluated in comparison with the proposed CEDHSP in this ~~Draft~~ DEIR. Two additional alternatives, Alternative 4—Zoning-Consistent, and Alternative 5—Senior Living, were added in the Second Partial Recirculated RDEIR to reflect the development potential based on current zoning and to reflect the community’s interest in providing age-restricted and assisted living opportunities.

- Alternative 1: No Project
- **Alternative 2:** Reduced Density
- **Alternative 3:** Reduced Wetland Impact
- **Alternative 4:** Zoning-Consistent
- **Alternative 5:** Senior Living

Table 4-1 provides a comparison of the types and extent of development associated with the proposed project and the No-Project, Reduced-Density, Reduced Wetland-Impact, Zoning-Consistent, and Senior Living Alternatives. Each of the alternatives analyzed is further described in Sections 4.3.1 through 4.3.4.



**Table 4-1. Alternatives Analyzed**

Land Use	Proposed Project	Alternative 1 No Project	Alternative 2 Reduced Density	Alternative 3 Reduced Wetland Impact	Alternative 4 Zoning-Consistent	Alternative 5 Senior Living
Developed Residential Acres <sup>a</sup>	123 ac	93 ac	185 ac	139 ac	80ac	136ac
Open Space <sup>b</sup>	175 ac	235 ac	130 ac	173 ac	160ac	181ac
Oak Tree Impacts	14 ac	32 ac <sup>c</sup>	34 ac <sup>c</sup>	38 ac <sup>c</sup>	55ac <sup>c</sup>	14ac
Wetlands Impacts	2.9 ac	0.15 ac	3.6 ac	0.25 ac	2.8ac	2.5ac
<b>Residential Land Use</b>						
HDR/VRL (<1-5 du/ac)	37 du	168 du	472 du	203 du <sup>c</sup>	510 du <sup>c</sup>	37 du
HDR/VRM-Low (5-8 du/ac)	123 du	-	-	159 du	-	-
HDR/VRM-High (8-14 du/ac)	310 du	-	-	200 du	-	226 du
MFR/VRH (14-24 du/ac)	530 du	144 du	200 du	353 du	144 du	300 du
Age-Restricted - Independent	-	-	-	-	-	1,000 du
Assisted Living	-	-	-	-	-	200 du
Total Dwelling Units	1,000 du	312 du	672 du	915 du	654 du	1,763 du
Recreational Facility - High	-	-	-	-	63 ac	-
Church Site	-	-	-	-	5 ac	-
Road Impacts	12 ac	13 ac	21 ac	17 ac	26 ac	13 ac
Private Parks (quantity)	1	-	2	-	6	1
Entry Park	1.2 ac	-	2.2 ac	-	-	1.2 ac
Neighborhood Park	-	-	2.5 ac	-	7 ac	-
Total Public Parks (acres)	26 ac	-	-	12 ac	-	11 ac
Village/Community Park - Westside	15 ac	-	-	-	-	-
Park/Limited Commercial - Westside	11 ac	-	-	12 ac	-	11 ac
Total Developed Acres <sup>d</sup>	161 ac	106 ac	211 ac	168 ac	181 ac	161 ac
Total Project Area	336 ac	341 ac <sup>f</sup>	341 ac <sup>f</sup>	341 ac <sup>f</sup>	341 ac <sup>f</sup>	341 ac <sup>f</sup>

Land Use	Proposed Project	Alternative 1 No Project	Alternative 2 Reduced Density	Alternative 3 Reduced Wetland Impact	Alternative 4 Zoning-Consistent	Alternative 5 Senior Living
<b>Offsite Improvements</b>						
Pedregal Water Lines	X	X	X	X	X	X
Recycled Water Line Expansion	X	-	X	-	-	-
Park Drive Extension <sup>e</sup>	X	-	X	-	X	X
Two Pedestrian Crossings	X	-	-	-	-	-
US 50 Pedestrian Crossing	-	-	-	-	-	-
Potential Connection to Silva Valley Parkway	X	-	-	-	-	-
Other Roadway Connections	-	-	X	X	-	-

- <sup>a</sup> Excludes roads and parks, which are listed separately.
  - <sup>b</sup> Open space estimated in project area includes Serrano Village D1, Lots C and D.
  - <sup>c</sup> Duplexes/half-plexes assumed on the VRL lots in Pedregal.
  - <sup>d</sup> Developed acres, road impacts, and parks.
  - <sup>e</sup> Extension from El Dorado Hills Boulevard to the Serrano Westside roundabout.
  - <sup>f</sup> Mapping adjustments were made by the Applicant that reduced acreage for the proposed project.
- ac = acres (rounded in some cases); du = dwelling units.

### 4.3.1 Alternative 1—No Project

~~State CEQA Guidelines~~ Section 15126.6(e)(2) of the ~~State CEQA Guidelines~~ requires an EIR to include an analysis of the No-Project Alternative. Evaluation of the No-Project Alternative allows decision makers to compare the impacts of approving the proposed project with the impacts of not approving the proposed project. The No Project Alternative assumes that the proposed project would not be implemented but does not necessarily preclude use or development of the project site. Rather, the No Project Alternative evaluated in this Draft EIR considers “what would be reasonably expected to occur in the foreseeable future if the project were not approved, based on current plans and consistent with available infrastructure and community services” (State CEQA Guidelines Section 15126.6 [e][2]).<sup>27</sup>

For this ~~Draft~~ DEIR, the No-Project Alternative assumes that the land uses within the project area would remain as currently entitled (Serrano Village D1, Lots C and D) and as current General Plan land use designations allow (Pedregal and the former El Dorado Hills Executive Golf Course). A General Plan amendment, El Dorado Hills Specific Plan amendment, or rezoning would not be required. However, the No-Project Alternative would require a tentative subdivision map, which would be subject to environmental review under CEQA.

Buildout of existing plans and/or entitlements under the theoretic maximum density for the project area would allow development under the No-Project Alternative of up to 759 dwelling units on 181 acres. However, in order to be feasible in the Pedregal planning area in consideration of slope and oak canopy restrictions, the No-Project Alternative development density and dwelling unit count was modified to be consistent with County development requirements, which would limit allowable development to a total of 312 dwelling units on the 341-acre project site (93 developed acres). Figure 4-1 shows the land use assumptions for this alternative.

Under this scenario, the No-Project Alternative would consist of the development of 168 detached, single-family residential units at a density of <1–5 dwelling units per acre (du/ac) and 144 multifamily residential units at a density of 14–24 du/ac. The Serrano Westside planning area encompasses Serrano Village D1, Lots C and D, which would be developed with residential uses consistent with the ~~1988 El Dorado Hills Specific Plan (EDHSP)~~. Within the Serrano Westside planning area, 41.2 acres would be developed with detached, single-family residential units at a density of <1–5 du/ac (135 dwelling units). The Pedregal planning area would be developed with 45.3 acres of detached, single-family residential units at a density of <1–5 du/ac (33 units), and 6.3 acres of multifamily residential unit at a density of 14–24 du/ac (144 units). No public or private parks would be dedicated. This alternative would not include the civic-limited commercial land use. The former El Dorado Hills Executive Golf Course property would remain in its existing state as maintained vacant land. Table 4-1 summarizes the development assumptions for this alternative.

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<sup>27</sup> As provided by State CEQA Guidelines Section 15126(e)(3)(A), a discussion of the No-Project Alternative will usually proceed along one of two lines: a “plan-to-plan” comparison when the project is the revision of an existing land use plan, such as the proposed project; or—if the project is other than a land use plan (e.g., a development project on identifiable property)—a comparison of the environmental effects of the property remaining in its existing state against the environmental effects if the proposed project is approved. The plan-to-plan comparison is the appropriate analysis for this DEIR, and a No-Project Alternative under which the project site remains in its existing state does not require evaluation in this ~~Draft~~ DEIR.

Circulation improvements associated with the proposed project, including those associated with vehicular connectivity, pedestrian amenities, and the public trail system, would not be constructed under the No-Project Alternative (refer to Table 4-1).

Offsite infrastructure improvements (outside the project area) would be required to support the No-Project Alternative. These offsite improvements would include new water lines to supply the Pedregal planning area. The No-Project Alternative would not include a recycled water line, the two pedestrian crossings at the Raley's and La Borgata shopping area, the Park Drive extension, a pedestrian crossing over US 50, or a potential connection to Silva Valley Parkway (refer to Table 4-1).

The CEDHSP policies would not apply to development in either planning area. Further, the No-Project Alternative is not a specific plan or development proposal. Thus, in the evaluation of environmental impacts of the No-Project Alternative, the analysis generally assumes that development within the Pedregal planning area would be subject to General Plan policies, zoning and development standards set forth in the County Code of Ordinances, and General Plan EIR mitigation measures adopted for mitigating potential environmental effects. In the Serrano Westside planning area, the No-Project Alternative assumes that environmental effects could be addressed through EDHSP policies, EIR mitigation measures, and conditions of approval.

It is reasonable to assume that the mitigation measures identified in this Draft EIR for the proposed project would provide effective environmental protection. Therefore, the proposed project's mitigation measures are referenced in the technical analyses, below, to allow for meaningful comparison with the proposed project and as an indicator of the level of mitigation that could be required for a project with the land uses associated with the Alternative.

#### **4.3.1.1 Aesthetics**

[No changes from November 2015 Draft EIR.]

#### **4.3.1.2 Air Quality**

[No changes from 2022 Revised Final EIR.]

#### **4.3.1.3 Biological Resources**

[No changes from 2022 Revised Final EIR.]

#### **4.3.1.4 Cultural Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.1.5 Geology, Soils, Minerals, and Paleontological Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.1.6 Greenhouse Gas Emissions**

[No changes from April 2016 Partial Recirculated Draft EIR.]

#### **4.3.1.7 Hazards and Hazardous Materials**

[No changes from November 2015 Draft EIR.]

#### **4.3.1.8 Hydrology, Water Quality, and Water Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.1.9 Land Use Planning and Agricultural Resources**

[No changes from November 2015 Draft EIR].

#### **4.3.1.10 Noise and Vibration**

[No changes from November 2015 Draft EIR.]

#### **4.3.1.11 Population and Housing**

[No changes from November 2015 Draft EIR].

#### **4.3.1.12 Public Services and Utilities**

[No changes from November 2015 Draft EIR.]

#### **4.3.1.13 Recreation**

[No changes from November 2015 Draft EIR.]

#### **4.3.1.14 Traffic and Circulation**

[No changes from 2022 Revised Final EIR.]

### **Application of Screening Criteria**

#### **Ability to Meet Project Objectives**

The County's primary objective for the proposed project is to create development patterns that make the most efficient and feasible use of existing infrastructure and public services, while promoting a sense of community as envisioned by the County General Plan. The No-Project Alternative would make efficient and feasible use of existing infrastructure, but it would not necessarily promote a sense of community. The No-Project Alternative would, at least to some extent, meet 6 of the 15 additional project objectives.

- Curtail suburban sprawl.
- Assist in meeting future RHNA needs.
- Broaden the housing stock in El Dorado Hills.
- Utilize existing infrastructure and public services.
- Improve north-south pedestrian and bicycle connectivity.
- Protect important cultural resources.

It would not meet the other objectives listed in Section 4.2.1. Because the density would be low and pedestrian trails would not be included, the No-Project Alternative would not meet objectives related to walkability, bicycle and pedestrian access, and transit opportunities. The No-Project Alternative would result in the development of the ridgeline in Village D1 and therefore would not meet objectives to maintain the character of the natural landscape or minimize impacts on oaks.

### **Impact Avoidance**

The No-Project Alternative would avoid impacts related to changes in land use designations or zoning. It would result in development of fewer acres and nearly 70-percent fewer dwelling units and would therefore result in reduction of impacts related to population and traffic. Impacts on air quality, noise, population and housing, and public services would be reduced, although impacts related to GHGs could increase. Because fewer acres would be developed, it would result in fewer impacts on biological and cultural resources. Potential impacts related to the need for and construction of new recreational facilities which would not exist under the proposed project would be increased under the No-Project Alternative, although likely to a less-than-significant level.

### **Feasibility**

Implementation of the No-Project Alternative would be possible as described because County requirements for construction and oak preservation have been considered. This alternative would result in far fewer residential units within the same acreage and therefore may not be economically feasible for the applicant.

## **4.3.2 Alternative 2—Reduced Density**

Compared to the proposed project, the Reduced-Density Alternative would reduce the total number of dwelling units from 1,000 to 672, but would increase the development footprint by ~~over~~ more than 50 acres to accommodate the reduced density (from 134 acres for the proposed project to 185 acres under this alternative). This alternative would provide the least open space—130 acres—of all the alternatives, and 39 fewer acres of open space than the proposed project. This alternative assumes development of Village D1, Lots C and D (135 units) and combines the current approved land uses and existing housing types within the Serrano Westside planning area with development of the Pedregal planning area as envisioned under the proposed project.

Buildout of the Reduced-Density Alternative would result in development of 672 dwelling units, of which 337 would be low density (<1 du/ac), 135 medium-low density (5–8 du/ac), and 200 high-density (14–24 du/ac). This alternative would have 300 more low-density (<1 du/ac) and 12 more medium-low density (5–8 du/ac) residential units than the proposed project, while eliminating all medium-density (8–14 du/ac) units and decreasing high-density (14–24 du/ac) units from 530 to 200 (Table 4-1). This alternative would not include the Civic-Limited Commercial land use. Table 4-1, above, summarizes the development assumptions for this alternative.

Roads would occupy 21 acres, and two private parks - a 2.2-acre entry park and a 2.5-acre neighborhood park totaling 4.7 acres - would be developed. No public parks are proposed for the Reduced-Density Alternative, as many of the proposed housing units would be located within the Serrano Westside planning area, where amenities have already been completed, and residents would have access to those facilities. The public trail system, the north and south pedestrian crossings from the Serrano Westside planning area, and the Silva Valley Parkway connection that would be constructed under the proposed project, would not be built under the Reduced-Density

Alternative. To facilitate traffic circulation, connections would be made to Penela Way Drive, Estero Way, and Meadow Wood Drive. Figure 4-2 depicts proposed development under the Reduced-Density Alternative (refer to Table 4-1).

#### **4.3.2.1 Aesthetics**

[No changes from November 2015 Draft EIR.]

#### **4.3.2.2 Air Quality**

This section replaces the previous Section 4.3.2.2, Air Quality, in the 2022 Revised Final EIR in its entirety.

The types of air quality impacts under the Reduced-Density Alternative would be similar to those under the proposed project, but of a lesser magnitude. As with the proposed project, construction and combined construction and partial operation of building features would generate criteria pollutant emissions that could exceed EDCAQMD's significance thresholds. However, because the extent of construction and operational activities is less under the Reduced-Density Alternative than under the proposed project, criteria pollutant emissions generated by the Reduced-Density Alternative would likely be lower than those estimated for the proposed project. Mitigation Measures AQ-2a through AQ-2d and GHG-1 identified in Section 3.2, *Air Quality*, would reduce emissions to a less-than-significant level, consistent with the proposed project.

Implementation of the Reduced-Density Alternative could expose new residents and adjacent sensitive receptors to increased health risks from TACs, including DPM, generated by equipment and vehicle exhaust. Emissions and thus health risks resulting from buildout of the Reduced-Density Alternative would be less than that of the proposed project because there would be less construction and fewer operational emission sources. Construction TAC emissions would be reduced through Mitigation Measures AQ-2b, AQ-2c, and GHG-1. However, like the proposed project, there may be instances where specific conditions preclude the reduction of health risks from exposure to project generated TACs during construction to below adopted thresholds, resulting in a significant impact.

Similar to the proposed project, receptors could be exposed to NOA during construction. The requirements identified in Mitigation Measure AQ-3, discussed in Section 3.2, would reduce any NOA impacts to a less-than-significant level.

Like the proposed project, the Reduced-Density Alternative would not result in new or worsened odors that would affect a substantial number of people, and odor impacts would be less than significant. Similarly, CO modeling for the proposed project showed that no new localized violations of the 1-hour or 8-hour ambient air quality standards would occur, and the same conclusion would be expected for the Reduced-Density Alternative, which would result in fewer vehicle trips and congestion.

#### **4.3.2.3 Biological Resources**

[No changes from 2022 Revised Final EIR.]

#### **4.3.2.4 Cultural Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.2.5 Geology, Soils, Minerals, and Paleontological Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.2.6 Greenhouse Gas Emissions**

This section replaces the previous Section 4.3.2.6, *Greenhouse Gas Emissions*, in the Revised Final EIR in its entirety.

GHG impacts under the Reduced-Density Alternative would be similar to those under the proposed project, but of a lesser magnitude. Similar to criteria air pollutant emissions, construction and operational GHG emissions associated with the Reduced-Density Alternative would likely be lower than those estimated for the proposed project because of the reduced level of development. Compliance with CEDHSP Sustainability Element policies would reduce construction and operational GHG emissions consistent with the relative reductions estimated for the proposed project.

Although GHGs resulting from buildout of the Reduced-Density Alternative may be less than the proposed project, development would generate new vehicle trips and consume fossil fuels, which could conflict with the state's decarbonization and carbon neutrality goal. The requirements listed in Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c, as proposed for the project in Section 3.6, *Greenhouse Gas Emissions*, or similarly effective measures would still be needed under the Reduced-Density Alternative. However, even with mitigation, the Reduced-Density Alternative's cumulative contribution of GHG emissions would be significant and unavoidable, and the alternative could conflict with the 2017 Scoping Plan and the state's long-time climate change goals in AB 1279 and the 2022 Scoping Plan.

#### **4.3.2.7 Hazards and Hazardous Materials**

[No changes from November 2015 Draft EIR.]

#### **4.3.2.8 Hydrology, Water Quality, and Water Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.2.9 Land Use Planning and Agricultural Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.2.10 Noise and Vibration**

[No changes from November 2015 Draft EIR.]

#### **4.3.2.11 Population and Housing**

[No changes from November 2015 Draft EIR.]

#### **4.3.2.12 Public Services and Utilities**

[No changes from November 2015 Draft EIR.]



### **4.3.2.13 Recreation**

[No changes from November 2015 Draft EIR.]

### **4.3.2.14 Traffic and Circulation**

[No changes from 2022 Revised Final EIR.]

### **4.3.2.15 Application of Screening Criteria**

#### **Ability to Meet Project Objectives**

The County's primary objective for the proposed project is to create development patterns that make the most efficient and feasible use of existing infrastructure and public services while promoting a sense of community as envisioned by the County General Plan. The Reduced-Density Alternative would make efficient and feasible use of existing infrastructure, and it would promote a sense of community. The Reduced-Density Alternative would, at least to some extent, meet five of the 15 additional project objectives:

- Curtail suburban sprawl.
- Utilize existing infrastructure and public services.
- Provide opportunities for recreational facilities.
- Encourage future transit opportunities.
- Protect important cultural resources.

It would not meet the other objectives listed in Section 4.2.1. Because the density would be lower and public trail system and pedestrian crossings from the Serrano Westside planning area and over US 50 would not be included, this alternative would not meet objectives related to bicycle and pedestrian connectivity and safety. The Reduced-Density Alternative includes only single-family residences and therefore would not meet objectives related to RHNA or housing diversity. The Reduced-Density Alternative would result in the development of the ridgeline in Village D1 and therefore would not meet objectives to maintain the character of the natural landscape or minimize impacts on oaks.

#### **Impact Avoidance**

Although the Reduced-Density Alternative would not altogether avoid any impacts of the proposed project, it would result in development of approximately one-third fewer dwelling units and would therefore result in reduction of impacts related to population and traffic. Impacts on air quality, noise, population and housing, and public services also would be reduced. Because more acres would be developed, it would not result in fewer impacts on biological and cultural resources. Because residential units would be located adjacent to US 50, a significant and unavoidable traffic noise impact would occur that would not occur under the proposed project. This alternative would introduce impacts (although likely less than significant) related to recreational facilities that would not occur under the proposed project and would require the dedication or payment of in-lieu fees to accommodate new park users.

## Feasibility

Implementation of the Reduced-Density Alternative would be possible as described because County requirements for construction and oak preservation have been considered. This alternative would result in approximately one third fewer residential units and therefore may not be economically feasible for the applicant.

### 4.3.3 Alternative 3—Reduced Wetland Impact

Alternative 3, the Reduced-Wetland-Impact Alternative (Figure 4-3), is intended to reduce wetland impacts compared to the proposed project through changes to the location and density of development. A total of 0.24 acre of wetland would be affected under this alternative, versus 2.9 acres of wetlands and other waters of the United States under the proposed project.

The Reduced-Wetland-Impact Alternative would reduce the quantity and density of potential dwelling units in the Serrano Westside planning area and would include the development of Serrano Village D1, Lots C and D (135 units), which would be designated as Open Space under the proposed project. Of the 341-acre total site area, 168 acres would comprise the development footprint and approximately 173 acres would remain in open space use. Buildout of the Reduced-Wetland-Impact Alternative would result in the development of 68 low-density units, 294 medium-low density units, 200 medium-high density units, and 353 high-density units, for a total of 915 dwelling units on approximately 139 acres. The Reduced-Wetland-Impact Alternative assumes construction of duplexes and half-plexes within the Pedregal planning area as a means to increase density, while reducing and configuring the development footprint to avoid wetlands. The civic-limited commercial land use of the proposed project would be retained under this alternative but with slightly more acreage (12 acres under The Reduced-Wetland Impact Alternative versus 11 acres under the proposed project). Table 4-1, above, summarizes the development assumptions for this alternative.

Roads would occupy 17 acres, 5 acres more than the proposed project's 12 acres of roadways. The pedestrian crossing from the Serrano Westside planning area, and the Park Drive extension included in the proposed project would not be components of this alternative. However, this alternative would include the water line extensions to serve the Pedregal planning area, and the recycled water line expansion. The option for the Silva Valley Parkway connection would not be provided. Vehicle circulation would require connections to Gillette Drive (from the Pedregal planning area) and to Meadow Wood Drive and Estero Way (from the Serrano Westside planning area) (refer to Table 4-1).

#### 4.3.3.1 Aesthetics

[No changes from November 2015 Draft EIR.]

#### 4.3.3.2 Air Quality

This section replaces the previous Section 4.3.3.2, Air Quality, in the 2022 Revised Final EIR in its entirety.

The types of air quality impacts under the Reduced-Wetland Alternative would be similar to those under the proposed project, but of a lesser magnitude. As with the proposed project, construction and combined construction and partial operation of building features would generate criteria pollutant emissions that could exceed EDCAQMD's significance thresholds. However, because the

extent of construction and operational activities are less under the Reduced-Wetland Alternative than under the proposed project, criteria pollutant emissions generated by the Reduced- Wetland Alternative would likely be lower than those estimated for the proposed project. Mitigation Measures AQ-2a through AQ-2d and GHG-1 identified in Section 3.2, *Air Quality*, would reduce emissions to a less-than-significant level, consistent with the proposed project.

Implementation of the Reduced-Wetland Alternative could expose new residents and adjacent sensitive receptors to increased health risks from TACs, including DPM, generated by equipment and vehicle exhaust. Emissions and thus health risks resulting from buildout of the Reduced-Wetland Alternative would be less than that of the proposed project because there would be less construction and fewer operational emission sources. Construction TAC emissions would be reduced through Mitigation Measures AQ-2b, AQ-2c, and GHG-1. However, like the proposed project, there may be instances where specific conditions preclude the reduction of health risks from exposure to project generated TACs during construction to below adopted thresholds, resulting in a significant impact.

Similar to the proposed project, receptors could be exposed to NOA during construction. The requirements identified in Mitigation Measure AQ-3, discussed in Section 3.2, *Air Quality*, would reduce any NOA impacts to a less-than-significant level.

Like the proposed project, the Reduced-Wetland Alternative would not result in new or worsened odors that would affect a substantial number of people, and odor impacts would be less than significant. Similarly, CO modeling for the proposed project showed that no new localized violations of the 1-hour or 8-hour ambient air quality standards would occur, and the same conclusion would be expected for the Reduced-Wetland Alternative, which would result in fewer vehicle trips and congestion.

#### **4.3.3.3 Biological Resources**

[No changes from 2022 Revised Final EIR.]

#### **4.3.3.4 Cultural Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.3.5 Geology, Soils, Minerals, and Paleontological Resources**

[No changes from November 2015 Draft EIR.]

#### **4.3.3.6 Greenhouse Gas Emissions**

This section replaces the previous Section 4.3.3.6, *Greenhouse Gas Emissions*, in the 2022 Revised Final EIR in its entirety.

GHG impacts under the Reduced-Wetland Alternative would be similar to those under the proposed project, but of a lesser magnitude. Similar to criteria air pollutant emissions, construction and operational GHG emissions associated with the Reduced-Wetland Alternative would likely be lower than those estimated for the proposed project because of the reduced level of development. Compliance with CEDHSP Sustainability Element policies would reduce construction and operational GHG emissions consistent with the relative reductions estimated for the proposed project.

Although GHGs resulting from buildout of the Reduced-Wetland Alternative may be less than the proposed project, development would generate new vehicle trips and consume fossil fuels, which could conflict with the state's decarbonization and carbon neutrality goal. The requirements listed in Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c, as proposed for the project in Section 3.6, *Greenhouse Gas Emissions*, or similarly effective measures would still be needed under the Reduced-Wetland Alternative. However, even with mitigation, the Reduced-Wetland Alternative's cumulative contribution of GHG emissions would be significant and unavoidable, and the alternative could conflict with the 2017 Scoping Plan and the state's long-time climate change goals in AB 1279 and the 2022 Scoping Plan.

#### **4.3.3.7 Hazards and Hazardous Materials**

[No changes from November 2015 DEIR.]

#### **4.3.3.8 Hydrology, Water Quality, and Water Resources**

[No changes from November 2015 DEIR.]

#### **4.3.3.9 Land Use Planning and Agricultural Resources**

[No changes from November 2015 DEIR.]

#### **4.3.3.10 Noise and Vibration**

[No changes from November 2015 DEIR.]

#### **4.3.3.11 Population and Housing**

[No changes from November 2015 DEIR.]

#### **4.3.3.12 Public Services and Utilities**

[No changes from November 2015 DEIR.]

#### **4.3.3.13 Recreation**

[No changes from November 2015 DEIR.]

#### **4.3.3.14 Traffic and Circulation**

[No changes from 2022 Revised Final EIR.]

#### **4.3.3.15 Application of Screening Criteria**

##### **Ability to Meet Project Objectives**

The County's primary objective for the proposed project is to create development patterns that make the most efficient and feasible use of existing infrastructure and public services while promoting a sense of community as envisioned by the County General Plan. The Reduced-Wetland-Impact Alternative would make efficient and feasible use of existing infrastructure, and it would

promote a sense of community. The Reduced-Wetland-Impact Alternative would, to some extent, meet 10 of the 15 project objectives:

- Fulfill regional land use objectives by achieving MTP/SCS Consistency.
- Curtail suburban sprawl.
- Assist in meeting future RHNA needs.
- Broaden the housing stock in El Dorado Hills.
- Provide a strong community identity and quality built environment.
- Utilize existing infrastructure and public services.
- Encourage future transit opportunities.
- Provide opportunities for recreational facilities in El Dorado Hills.
- Protect important cultural resources.
- Foster sustainable communities.

The lack of public trail system and pedestrian crossings from the Serrano Westside Planning area and over US 50 would not result in a walkable community, and objectives related to pedestrian and bicycle safety and connectivity would not be met. This alternative would also develop the ridgeline in Village D1, and therefore would not meet objectives to maintain the character of the natural landscape or minimize impacts on oaks.

### **Impact Avoidance**

Although the Reduced-Wetland-Impact Alternative would not altogether eliminate any impact, it would substantially reduce impacts on wetlands and on special-status species that occupy wetland habitat, but it would increase impacts on oak woodlands. This alternative would also result in development of slightly fewer acres and approximately 9 percent fewer dwelling units and would therefore result in very slight reductions of impacts related to air quality, population, public services, and vehicle traffic. This alternative would introduce a significant and unavoidable noise impact related to siting sensitive uses near US 50 and would result in a greater impact than the proposed project because occupied residential uses would be close to US 50. Impacts on geology and soils, paleontological resources, GHG emissions, and hydrology, water quality and water resources would be slightly reduced. Aesthetic impacts would increase slightly due to development on ridgelines. Potential impacts related to the need for and construction of new recreational facilities, which would not exist under the proposed project, would be increased under the Reduced-Wetland-Impact Alternative, although likely to a less-than-significant level.

### **Feasibility**

Implementation of the Reduced-Wetland-Impact Alternative would likely be economically feasible as the reduction in residential units is less than 10 percent.

## **4.3.4 Alternative 4—Zoning-Consistent**

The Zoning-Consistent Alternative assumes that the land uses in the project area would be developed pursuant to current zoning. Unlike the proposed project, a County General Plan amendment and EDHSP amendment would not be required.

The Zoning-Consistent Alternative would consist of developing 510 detached, single-family residential units at a density of less than 1 to 5 dwelling units per acre on the Westside planning area north of Serrano Parkway (135 units on Serrano Village D1 Lots C and D and 375 units on Pedregal), and 144 attached, multifamily residential units at a density of 14 to 24 dwelling units per acre on the Pedregal planning area. Open space and parkland would be dedicated (173 acres). This alternative would not include the civic-limited commercial land use but would include 5 acres zoned for a church as allowed by the El Dorado Hills Specific Plan. The former El Dorado Hills Executive Golf Course property would remain under its current zoning of Recreational Facilities, High-Intensity (RFH).<sup>28</sup> and would be developed as active recreational facilities that could include uses permitted by the RFH zone district such as a tennis and aquatics facility, day-use and night-use sporting fields, amusement complex, indoor or outdoor entertainment facilities, hotels, and general merchandise sales. Table 4-1 summarizes the development assumptions for this alternative. Figure 4-4 shows the land use assumptions for this alternative and Figure 4-5 shows the zoning for this alternative.

Circulation improvements associated with the proposed project, including those associated with vehicular connectivity, such as the Park Drive extension, would also be constructed under the Zoning-Consistent Alternative (refer to Table 4-1).

Offsite infrastructure improvements (outside of the project area) would be required to support the Zoning-Consistent Alternative. These offsite improvements would include new water lines to supply the Pedregal planning area. This alternative would not include the two pedestrian crossings at the Raley's and La Borgata shopping area, nor the location for the pedestrian crossing over US 50, nor the potential connection to Silva Valley Parkway.

#### **4.3.4.1 Aesthetics**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.2 Air Quality**

This section replaces the previous Section 4.3.4.2, Air Quality, in the 2022 Revised Final EIR in its entirety.

The types of air quality impacts under the Zoning-Consistent Alternative would be similar to those under the proposed project, but of a lesser magnitude. This alternative includes approximately 350 fewer dwelling units than the proposed project, but also includes a church and recreational facilities, both of which would require construction and would have associated traffic. As with the proposed project, construction and combined construction and partial operation of building features would generate criteria pollutant emissions that could exceed EDCAQMD's significance thresholds. However, because the extent of construction and operational activities are less under the Zoning-Consistent Alternative than under the proposed project, criteria pollutant emissions generated by

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<sup>28</sup> The current zoning of the former golf course parcel (Recreational Facilities – High [RFH]) was approved by the Board of Supervisors as part of the Targeted General Plan Amendment – Zoning Ordinance Update (TGPA-ZOU). As shown in Table 2-1 in the CEDHSP Draft EIR, published in 2015, while the General Plan designation was “Open Space,” the then-existing zoning was Recreational Facilities (RF). The previous RF zoning provided for certain types of active recreational facilities such as picnic areas, ball fields and courts, playgrounds, golf courses, and swimming pools for day use only, as well as passive opportunities such as riding and hiking trails. For both active and passive uses, no special use permit or variance was required, but a project required site plan review.

the Zoning-Consistent Alternative would likely be lower than those estimated for the proposed project. Mitigation Measures AQ-2a through AQ-2d and GHG-1 identified in Section 3.2, *Air Quality*, would reduce emissions to a less-than-significant level, consistent with the proposed project.

Implementation of the Zoning-Consistent Alternative could expose new residents and adjacent sensitive receptors to increased health risks from TACs, including DPM, generated by equipment and vehicle exhaust. Emissions and thus health risks resulting from buildout of the Zoning-Consistent Alternative would be less than that of the proposed project because there would be less construction and fewer operational emission sources. Construction TAC emissions would be reduced through Mitigation Measures AQ-2b, AQ-2c, and GHG-1. However, like the proposed project, there may be instances where specific conditions preclude the reduction of health risks from exposure to project generated TACs during construction to below adopted thresholds, resulting in a significant impact.

Similar to the proposed project, receptors could be exposed to NOA during construction. The requirements identified in Mitigation Measure AQ-3, discussed in Section 3.2 would reduce any NOA impacts to a less-than-significant level.

Like the proposed project, the Zoning-Consistent Alternative would not result in new or worsened odors that would affect a substantial number of people, and odor impacts would be less than significant. Similarly, CO modeling for the proposed project showed that no new localized violations of the 1-hour or 8-hour ambient air quality standards would occur, and the same conclusion would be expected for the Zoning-Consistent Alternative, which would result in fewer vehicle trips and congestion.

#### **4.3.4.3 Biological Resources**

[No changes from 2022 Revised Final EIR.]

#### **4.3.4.4 Cultural Resources**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.5 Geology, Soils, Minerals, and Paleontological Resources**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.6 Greenhouse Gas Emissions**

This section replaces the previous Section 4.3.4.6, *Greenhouse Gas Emissions*, in the 2022 Revised Final EIR in its entirety.

GHG impacts under the Zoning-Consistent Alternative would be similar to those under the proposed project, but of a lesser magnitude. Similar to criteria air pollutant emissions, construction and operational GHG emissions associated with the Zoning-Consistent Alternative would likely be lower than those estimated for the proposed project because of the reduced level of development. Compliance with CEDHSP Sustainability Element policies would reduce construction and operational GHG emissions consistent with the relative reductions estimated for the proposed project.

Although GHGs resulting from buildout of the Zoning-Consistent Alternative may be less than the proposed project, development would generate new vehicle trips and consume fossil fuels, which

could conflict with the state’s decarbonization and carbon neutrality goal. The requirements listed in Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c, as proposed for the project in Section 3.6, *Greenhouse Gas Emissions*, or similarly effective measures would still be needed under the Zoning-Consistent Alternative. However, even with mitigation, the Zoning-Consistent Alternative’s cumulative contribution of GHG emissions would be significant and unavoidable, and the alternative could conflict with the 2017 Scoping Plan and the state’s long-time climate change goals in AB 1279 and the 2022 Scoping Plan.

#### **4.3.4.7 Hazards and Hazardous Materials**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.8 Hydrology, Water Quality, and Water Resources**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.9 Land Use Planning and Agricultural Resources**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.10 Noise and Vibration**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.11 Population and Housing**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.12 Public Services and Utilities**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.13 Recreation**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.4.14 Traffic and Circulation**

[No changes from 2022 Revised Final EIR.]

#### **4.3.4.15 Application of Screening Criteria**

##### **Ability to Meet Project Objectives**

The County’s primary objective for the proposed project is to create development patterns that make the most efficient and feasible use of existing infrastructure and public services while promoting a sense of community as envisioned by the County General Plan. The Zoning-Consistent Alternative would make efficient and feasible use of existing infrastructure, but it would not necessarily promote a sense of community.



The Zoning-Consistent Alternative would, at least to some extent, meet 7 of the 15 additional project objectives.

- Fulfill regional land use objectives by achieving MTP/SCS Consistency.
- Curtail suburban sprawl.
- Assist in meeting future RHNA needs.
- Broaden the housing stock in El Dorado Hills.
- Use existing infrastructure and public services.
- Provide opportunities for recreational facilities in El Dorado Hills.
- Protect important cultural resources.

It would not meet the other objectives listed in Section 4.2.1, *Ability to Meet Project Objectives*. Because pedestrian trails would not be included, the Zoning-Consistent Alternative would not meet objectives related to walkability and bicycle and pedestrian access. The Zoning-Consistent Alternative would result in the development of the ridgeline in Village D1; therefore, it would not meet objectives to maintain the character of the natural landscape or minimize impacts on oaks. The inclusion of a recreational park would also not be consistent with the character of the natural landscape.

### **Impact Avoidance**

The Zoning-Consistent Alternative would avoid impacts related to changes in zoning as discussed below in Sections 4.3.5.1, *Aesthetics*, through 4.3.5.14, *Traffic and Circulation*. It would result in development of fewer dwelling units and would, therefore, result in a reduction of impacts related to population and VMT. However, the inclusion of 63 acres of RFH zoned land would offset the reduction in VMT from fewer dwelling units. Impacts on air quality, noise, and GHG emissions would be similar, while impacts related to population and housing and public services, including school capacity, would be reduced. Wetland impacts would be slightly reduced, as would potential impacts on known archaeological resources. However, impacts on oak woodlands and species that live there, would be much greater.

### **Feasibility**

Implementation of the Zoning-Consistent Alternative would be possible as described because County requirements for construction and oak preservation have been considered. This alternative would result in fewer residential units but may be economically feasible for the applicant due to the inclusion of the recreational facilities.

## **4.3.5 Alternative 5—Senior Living**

The Senior Living Alternative would include residential development similar to the proposed project on the Pedregal planning area and the northern portion of the former Executive Golf Course. The former Executive Golf Course south of Serrano Parkway would be developed as a senior living facility. The senior living facility assumes a continuing care retirement community (CCRC), which provides residential services, onsite amenities and recreation, and health care. As with the proposed project, a County General Plan amendment and EDHSP amendment would be required.

The Senior Living Alternative would consist of developing 37 detached, single-family residential units at a density of <1–5 dwelling units per acre on the Pedregal planning area, identical to the proposed project, 226 single-family residential units at a density of 8–14 dwelling units per acre on the Serrano Westside planning area north of Serrano Parkway, and 300 attached, multifamily residential units at a density of 14–24 dwelling units per acre in both planning areas. The former Executive Golf Course south of Serrano Parkway would be developed as a senior living facility with 1,000 independent living dwelling units and 200 assisted living dwelling units. Open space and parkland would be dedicated. This alternative would include 11 acres of civic-limited commercial land use. Table 4-1 summarizes the development assumptions for this alternative. Figure 4-6 shows the land use assumptions for this alternative.

Circulation improvements associated with the proposed project, including those associated with vehicular connectivity, such as the Park Drive extension, would also be constructed similar to the proposed project under the Senior Living Alternative (refer to Table 4-1).

Offsite infrastructure improvements (outside the project area) would be required to support the Senior Living Alternative. These offsite improvements would include new water lines to supply the Pedregal planning area. This alternative would not include the two pedestrian crossings at the Raley's and La Borgata shopping area, a pedestrian crossing over US 50, and a potential connection to Silva Valley Parkway (refer to Table 4-1).

It is reasonable to assume that the mitigation measures identified in this Draft EIR for the proposed project would provide effective environmental protection because this alternative would not be that dissimilar to the proposed project. Therefore, the proposed project's mitigation measures are referenced in the technical analyses, below, to allow for meaningful comparison with the proposed project and as an indicator of the level of mitigation that could be required for a project with the land uses associated with this alternative.

#### **4.3.5.1 Aesthetics**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.2 Air Quality**

This section replaces the previous Section 4.3.5.2, *Air Quality*, in the 2022 Revised Final EIR in its entirety.

The types of air quality impacts under the Senior Living Alternative would be similar to those under the proposed project, but of a lesser magnitude. Though this alternative includes 763 more dwelling units than the proposed project, 1,200 total dwelling units would be part of a senior living facility. Residents of senior living facilities can be expected to drive much less than residents of non-age-restricted communities. Per ITE's *Trip Generation Handbook, 10th Edition*, retirement communities generate a week-day trip rate of 2.40 compared to 9.44 for single family housing (ITE 2017). There would be trips associated with employees and visitors. Overall, the combination of 263 single-family residential units and 300 multifamily residential units with 1,200 senior living dwelling units are expected to result in less traffic and fewer trips than the proposed project. However, as with the proposed project, construction and combined construction and partial operation of building features would generate criteria pollutant emissions that could exceed EDCAQMD's significance thresholds. However, because the extent of construction and operational activities are less under the Senior Living Alternative than under the proposed project, criteria pollutant emissions generated by the

Senior Living Alternative would likely be lower than those estimated for the proposed project. Mitigation Measures AQ-2a through AQ-2d and GHG-1 identified in Section 3.2, *Air Quality*, would reduce emissions to a less-than-significant level, consistent with the proposed project.

Implementation of the Senior Living Alternative could expose new residents and adjacent sensitive receptors to increased health risks from TACs, including DPM, generated by equipment and vehicle exhaust. Emissions and thus health risks resulting from buildout of the Senior Living Alternative would be less than that of the proposed project because there would be less construction and fewer operational emission sources. Construction TAC emissions would be reduced through Mitigation Measures AQ-2b, AQ-2c, and GHG-1. However, like the proposed project, there may be instances where specific conditions preclude the reduction of health risks from exposure to project generated TACs during construction to below adopted thresholds, resulting in a significant impact.

Similar to the proposed project, receptors could be exposed to NOA during construction. The requirements identified in Mitigation Measure AQ-3, discussed in Section 3.2, would reduce any NOA impacts to a less-than-significant level.

Like the proposed project, the Senior Living Alternative would not result in new or worsened odors that would affect a substantial number of people, and odor impacts would be less than significant. Similarly, CO modeling for the proposed project showed that no new localized violations of the 1-hour or 8-hour ambient air quality standards would occur, and the same conclusion would be expected for the Senior Living Alternative, which would result in fewer vehicle trips and congestion.

#### **4.3.5.3 Biological Resources**

[No changes from 2022 Revised Final EIR.]

#### **4.3.5.4 Cultural Resources**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.5 Geology, Soils, Minerals, and Paleontological Resources**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.6 Greenhouse Gas Emissions**

This section replaces the previous Section 4.3.5.6, *Greenhouse Gas Emissions*, in the 2022 Revised Final EIR in its entirety.

GHG impacts under the Senior Living Alternative would be similar to those under the proposed project, but of a lesser magnitude. Similar to criteria air pollutant emissions, construction and operational GHG emissions associated with the Senior Living Alternative would likely be lower than those estimated for the proposed project because of the reduced level of development. Compliance with CEDHSP Sustainability Element policies would reduce construction and operational GHG emissions consistent with the relative reductions estimated for the proposed project.

Although GHGs resulting from buildout of the Senior Living Alternative may be less than the proposed project, development would generate new vehicle trips and consume fossil fuels, which could conflict with the state's decarbonization and carbon neutrality goal. The requirements listed in Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c, as proposed for the project in Section 3.6,

*Greenhouse Gas Emissions*, or similarly effective measures would still be needed under the Senior Living Alternative. However, even with mitigation, the Senior Living Alternative’s cumulative contribution of GHG emissions would be significant and unavoidable, and the alternative could conflict with the 2017 Scoping Plan and the state’s long-time climate change goals in AB 1279 and the 2022 Scoping Plan.

#### **4.3.5.7 Hazards and Hazardous Materials**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.8 Hydrology, Water Quality, and Water Resources**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.9 Land Use Planning and Agricultural Resources**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.10 Noise and Vibration**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.11 Population and Housing**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.12 Public Services and Utilities**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.13 Recreation**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.14 Traffic and Circulation**

[No changes from Second Partial Recirculated DEIR.]

#### **4.3.5.15 Application of Screening Criteria**

##### **Ability to Meet Project Objectives**

The County’s primary objective for the proposed project is to create development patterns that make the most efficient and feasible use of existing infrastructure and public services while promoting a sense of community as envisioned by the County General Plan. The Senior Living Alternative would make efficient and feasible use of existing infrastructure and promote a sense of community for seniors.

The Senior Living Alternative would, at least to some extent, meet the following eight of the 15 additional project objectives.

- Fulfill regional land use objectives by achieving MTP/SCS Consistency.

- Curtail suburban sprawl.
- Assist in meeting future RHNA needs.
- Broaden the housing stock in El Dorado Hills.
- Provide a strong community identity and quality built environment.
- Utilize existing infrastructure and public services.
- Maintain characteristics of natural landscape.
- Protect important cultural resources.

The Senior Living Alternative would not meet the other objectives listed in Section 4.2.1, *Ability to Meet Project Objectives*. Because pedestrian trails would not be included, the Senior Living Alternative would not meet objectives related to walkability and bicycle and pedestrian access. The Senior Living Alternative would avoid development of the ridgeline in Village D1; therefore, it would meet objectives to maintain the character of the natural landscape but would not minimize impacts on oaks. This alternative does not offer recreational opportunities, with only 1.2 acres of parkland; however, there would be recreational opportunities associated with the CCRC.

### Impact Avoidance

The Senior Living Alternative would result in slightly reduced impacts on wetlands. Impacts related to population, including demand for wastewater and emergency services, would be greater, though demand for water would be reduced due to the higher density of development. Impacts related to traffic, noise, air quality, and GHG emissions are expected to be similar in terms of significance, but reduced in magnitude.

### Feasibility

Implementation of the Senior Living Alternative would likely be economically feasible for the applicant.

## 4.4 Environmentally Superior Alternative

CEQA requires an EIR to examine a range of feasible alternatives to a proposed project. State CEQA Guidelines Section 15126.6(e)(2) requires that an EIR identify which of those alternatives is the environmentally superior alternative. The *environmentally superior alternative* is considered to be the alternative to the proposed project that has the least environmental impact, compared to the proposed project. If, in the course of identifying the environmentally superior alternative, the No-Project Alternative is found to be the environmentally superior alternative, then Section 15126.6(e)(2) of the State CEQA Guidelines further requires that an EIR identify which among the other alternatives is the environmentally superior alternative. Consequently, although the No-Project Alternative is evaluated and presented for comparison purposes, determination of the environmentally superior alternative in this chapter primarily reflects the differences in impacts among the remaining alternatives. Determination of the environmentally superior alternative uses the impact evaluations of the proposed project and of each alternative in a comparative process. The impacts of each alternative are identified and compared to those of the proposed project. The type and relative magnitude of each alternative's impacts are evaluated, and the alternative found to have

the least impact, as compared to the others, is determined to be the environmentally superior alternative.

Table 4-2 provides a comparison of the level of impacts under the alternatives considered in this Draft EIR as compared to the proposed project. In many instances, the potential effects would be similar, meaning that the overall outcome of implementing the proposed project compared to any one of the alternatives would generally result in the same type and magnitude of effects on a specific resource even though the approach of the alternatives differ in some ways from the proposed project.

**Table 4-2. Comparison of Environmental Impacts of Alternatives to the Proposed Project**

Resource Topic	Proposed Project	Alternative 1 No Project	Alternative 2 Reduced Density	Alternative 3 Reduced Wetland Impact	Alternative 4 Zoning-Consistent	Alternative 5 Senior Living
<b>Aesthetics</b>						
Light/Glare	LTS	LTS (=)	LTS (<)	LTS (>)	LTS (>)	LTS (>)
Construction	LTS	LTS (<)	LTS (<)	LTS (=)	LTS (=)	LTS (=)
Operation	LTS w/mit	LTS w/mit (>)	LTS w/mit (>)	LTS w/mit (>)	LTS w/mit (>)	LTS w/mit (>)
<b>Air Quality</b>						
Conflict with Plan	SU	SU (=)	SU (=)	SU (=)	SU (=)	SU (=)
Construction Emissions	LTS w/mit	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)
Operation Emissions	LTS	LTS (<)	LTS (<)	LTS (<)	LTS (<)	LTS (<)
Combined Emissions	LTS w/mit	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)
Construction Health	SU	SU (<)	SU (<)	SU (<)	SU (<)	SU (<)
Operation Health	LTS	LTS (<)	LTS (<)	LTS (<)	LTS (<)	LTS (<)
Odors	LTS	LTS (=)	LTS (=)	LTS (=)	LTS (=)	LTS (=)
<b>Biological Resources</b>						
Oak Canopy/Oak Woodlands	LTS w/mit	LTS w/mit (>)	LTS w/mit (>)	LTS w/mit (>)	LTS w/mit (>)	LTS w/mit (=)
Sensitive Vegetation Communities	LTS w/mit	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (<)	LTS w/mit (=)	LTS w/mit (=)
Wetlands	LTS w/mit	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)
Special Status Species	LTS w/mit	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (=)
<b>Cultural Resources</b>						
Known Archaeological Resources	LTS w/mit	LTS w/mit (=)	LTS w/mit (=)	LTS w/mit (=)	LTS w/mit (>)	LTS w/mit (=)
Potential Disturbance of Unknown Archaeological Resources	LTS w/mit	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (=)	LTS w/mit (=)	LTS w/mit (=)
<b>Geology, Soils, Minerals, and Paleontological Resources</b>						
Geology	LTS w/mit	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (<)	LTS w/mit (=)	LTS w/mit (=)
Minerals	LTS	LTS (=)	LTS (=)	LTS (=)	LTS (=)	LTS (=)
Paleontological Resources	LTS w/mit	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (<)	LTS w/mit (=)	LTS w/mit (=)
<b>Greenhouse Gas Emissions</b>						
Generate GHG	SU	SU (<)	SU (<)	SU (<)	SU (<)	SU (<)
Conflict with Plan	SU	SU (=)	SU (=)	SU (=)	SU (=)	SU (=)

Resource Topic	Proposed Project	Alternative 1 No Project	Alternative 2 Reduced Density	Alternative 3 Reduced Wetland Impact	Alternative 4 Zoning-Consistent	Alternative 5 Senior Living
<b>Hazards and Hazardous Materials</b>						
Construction	LTS	LTS (<)	LTS (<)	LTS (<)	LTS (=)	LTS (=)
Operation	LTS	LTS (<)	LTS (<)	LTS (<)	LTS (=)	LTS (=)
<b>Hydrology, Water Quality, and Water Resources</b>						
Construction Site Stormwater Runoff	LTS	LTS (<)	LTS (>)	LTS (<)	LTS (=)	LTS (=)
Urban Stormwater Runoff	LTS	LTS (<)	LTS (>)	LTS (<)	LTS (=)	LTS (=)
Drainage and Flood Hazard	LTS	LTS (<)	LTS (>)	LTS (>)	LTS (=)	LTS (=)
Water Quality (Wetlands and Other Waters)	LTS w/mit	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (=)	LTS w/mit (=)
<b>Land Use Planning and Agricultural Resources</b>						
Divide Community	LTS	LTS (=)	LTS (=)	LTS (=)	LTS (=)	LTS (=)
<b>Noise and Vibration</b>						
Construction	SU	SU (=)	SU (>)	SU (=)	SU (>)	SU (=)
Traffic	LTS w/mit	LTS w/mit (<)	SU (>)	SU (>)	LTS w/mit (=)	LTS w/mit (=)
Operation	LTS w/mit	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (=)
Mather Airport noise	SU	SU (=)	SU (=)	SU (=)	SU (=)	SU (=)
<b>Population and Housing</b>						
Growth	LTS	LTS (<)	LTS (<)	LTS (=)	LTS (<)	LTS (>)
Displacement	NI	NI (=)	NI (=)	NI (=)	NI (=)	NI (=)
<b>Public Services and Utilities</b>						
Public Services Facilities	LTS	LTS (<)	LTS (<)	LTS (=)	LTS (<)	LTS (>)
Wastewater Treatment	LTS	LTS (<)	LTS (<)	LTS (=)	LTS (<)	LTS (>)
Water Supply	LTS	LTS (<)	LTS (<)	LTS (>)	LTS (>)	LTS (<)
Other Utilities Demand	LTS	LTS (<)	LTS (<)	LTS (=)	LTS (=)	LTS (>)
Offsite Infrastructure Construction	LTS w/mit	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (=)	LTS w/mit (=)
<b>Recreation</b>						
Impacts on Existing Parks	LTS	LTS (>)	LTS (>)	LTS (>)	LTS (>)	LTS (>)
Impacts from New Offsite Parks	NI	LTS (>)	LTS (>)	LTS (>)	LTS (>)	LTS (>)



Resource Topic	Proposed Project	Alternative 1 No Project	Alternative 2 Reduced Density	Alternative 3 Reduced Wetland Impact	Alternative 4 Zoning-Consistent	Alternative 5 Senior Living
<b>Traffic and Circulation</b>						
Construction	LTS w/mit	LTS w/mit (<)	LTS w/mit (>)	LTS w/mit (=)	LTS w/mit (=)	LTS w/mit (=)
Operation	LTS w/mit	LTS w/mit (<)	LTS w/mit (<)	LTS w/mit (=)	LTS w/mit (=)	-
VMT	LTS	LTS (<)	LTS (=)	LTS (=)	LTS (>)	LTS (<)
Pedestrian/Bicycle/Public Transit	LTS w/mit	LTS w/mit (>)	LTS w/mit (>)	LTS w/mit (>)	LTS w/mit (=)	LTS w/mit (=)

Note: shading indicates change in significance level from proposed project.  
 (=) equal to proposed project; (<) less than proposed project; (>) greater than proposed project; GHG = greenhouse gas; NI = no impact; LTS = less-than-significant impact; LTS w/mit = less-than-significant impact with mitigation incorporated; SU = significant and unavoidable impact; VMT = vehicle miles traveled.

As shown in Table 4-2, the No-Project Alternative was determined to be environmentally superior. Although it still entails development and is, therefore, not a “no-build,” the reduced footprint and reduced overall dwelling units result in lesser environmental impacts overall. The State CEQA Guidelines require that, if the No-Project Alternative is identified as environmentally superior, the EIR must identify an environmentally superior alternative among the other alternatives (Section 15126.6[e][2]). Of the four remaining alternatives, the Reduced-Density Alternative appears to be the environmentally superior alternative. The Reduced-Density Alternative would result in the construction of 672 dwelling units and develop 211 of the 341 acres on the project site. It would also provide more pedestrian facilities than the Reduced-Wetland-Impact Alternative and a recycled water line extension.

The Reduced-Density Alternative would facilitate a walkable community, more than would the Reduced-Wetland-Impact Alternative. Though the larger overall footprint (approximately 50 acres more than the proposed project) would result in more potential to affect “on the ground” resources, such as biological, paleontological and archaeological resources and hydrology and water resources, the development of far fewer residential units (328 less than the proposed project) would result in less traffic and fewer traffic-associated air quality and noise impacts. Additionally, impacts on public services, utilities, and recreational facilities would be reduced.

The Reduced-Wetland-Impact Alternative would develop 5 acres less than the proposed project and 43 acres less than the Reduced-Density Alternative, which would avoid potential impacts on the ground resources, including many biological resources, but it would result in more acres of woodland impacts than other alternatives. With the development of 915 dwelling units (only 85 fewer than the proposed project), the reduction in traffic and population-associated impacts would be minimal compared to those of the proposed project and would be greater than those of the Reduced-Density Alternative.

The Zoning-Consistent Alternative would develop approximately the same acreage, including residential and the recreation facilities, but would result in 346 fewer residential units. ~~While~~ Although not avoiding any impact completely, it would reduce impacts related to population, including demand for public services, water, wastewater, parks, and schools. This alternative would slightly reduce impacts on wetlands but would result in more acres of woodland impact than any other alternative.

The Senior Living Alternative would result in the largest increase in population, while maintaining the same project footprint. Water demand would be lower due to density and traffic impacts may be less due to a reduced number of drivers in the senior living facility, but other impacts related to population would be increased including demand on public services, wastewater, and emergency services. There would be less demand on schools because there would be less school-age individuals under this alternative.

## 4.5 Alternatives Considered but Dismissed from Further Evaluation in this Draft EIR

[No changes from November 2015 DEIR.]

## Chapter 5

# Other CEQA Considerations

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This chapter includes revisions necessary because of the updated discussion of air quality and GHG provided in Sections 3.2 and 3.6, respectively. Discussions of other resource categories are not revised. Proposed additions are shown in underline; any deletions are shown in ~~strikeout~~.

## 5.1 Overview

This chapter includes the following discussions and analyses required by CEQA.

- Cumulative impacts.
- Growth-inducing impacts.
- Significant and unavoidable environmental impacts.
- Significant irreversible environmental impacts.
- Mitigation measures with the potential for environmental effects.

## 5.2 Cumulative Impacts

The State CEQA Guidelines define a *cumulative impact* as two or more individual impacts that, when considered together, are significant or that compound or increase other significant environmental impacts. The incremental impact of a project may be considerable when viewed in the context of other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor, but collectively significant, projects taking place over a period of time (State CEQA Guidelines Section 15355).

State CEQA Guidelines Section 15130(b) indicates that an adequate discussion of significant cumulative impacts requires consideration of either of the following:

- (A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency; or
- (B) A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect. Such plans may include: a general plan, regional transportation plan, or plans for the reduction of greenhouse gas emissions. A summary of projections may also be contained in an adopted or certified prior environmental document for such a plan.

This EIR uses a combination of both approaches. That is, the cumulative analysis is initially based on the adopted general plan (the projections approach based on projected population at the planning horizon under the ~~El Dorado County General Plan~~ [County's General Plan] supplemented by a list of additional projects that are not currently included in the ~~County~~ General Plan. Inclusion in this analysis does not imply that these proposed projects would be approved by the County. This cumulative impact analysis takes the impacts of these projects into consideration to meet the intent

of State CEQA Guidelines Section 15130. This combined approach is used to determine whether significant cumulative impacts would occur.

In reaching a conclusion for each resource area (i.e., the topics analyzed in Sections 3.1 through 3.14 of Chapter 3, *Impact Analysis*), five factors were considered: (i1) the geographic scope of the cumulative impact area for that resource;; (ii2) the timeframe within which project-specific impacts could interact with the impacts of other projects;; (iii3) whether a significant adverse cumulative condition presently exists to which project impacts could contribute;; (iv4) the significance of the incremental project-specific contribution to cumulative conditions;; and (v5) whether any cumulative impact is significant.

For the purpose of this EIR, significant cumulative impacts would occur if impacts related to the implementation of the project, combined with the environmental impacts of the planning horizon under the County's General Plan and the additional projects indicated below, would result in an adverse significant effect. For an impact to be considered cumulative, these incremental impacts and potential incremental impacts must be related to the types of impacts caused by the project and evaluated in Chapter 3, *Impact Analysis*.

## 5.2.1 Cumulative Scenario

The cumulative analysis considers impacts of the proposed CEDHSP together with the planning horizon under the County General Plan and other reasonably foreseeable projects producing related impacts, as described below.

### 5.2.1.1 General Plan Updated Planning Horizon

The County's General Plan, adopted in 2004, presents the County's comprehensive, long-term vision for physical development and resource conservation. The County General Plan analyzed two scenarios, a 20-year planning horizon (estimated to be 2025 at the time of preparation of the 2004 County's General Plan) and a maximum theoretical density buildout. The maximum theoretical density permitted under buildout of the County's General Plan would result in the development of up to 78,692 new housing units beyond the 44,708 units existing in 1999, for a total of 123,400 dwelling units housing an estimated 317,692 people within the unincorporated west slope area (El Dorado County 2003). The maximum commercial and industrial development permitted at County General Plan maximum theoretical density buildout is estimated to be 6,684 acres, at a floor area ratio (FAR) of 0.25, accommodating a total of 117,122 jobs (El Dorado County 2003, 2004a). In 2007, the County Board of Supervisors approved increasing the FAR to 0.85, accommodating a total of 245,543 jobs (El Dorado County 2007a). Practical constraints, such as slope, waterways, biological resources, and availability of roadways and infrastructure, make it unlikely that maximum theoretical density buildout could be achieved and certainly not within the planning horizon of the County's General Plan. In addition, the proposed project is anticipated to be built out within the 20-year planning horizon and therefore, the planning horizon is used as a basis for this cumulative scenario.

The County's forecasts for the ~~2004~~ County's General Plan 2025 planning horizon calculated that growth to the planning horizon would be an additional 32,491 new housing units beyond the 44,708 units that existed in 1999, for a total of 77,199 units. Approximately 15,000 new housing units have been built since 1999, leaving approximately 17,500 remaining housing units to be built in the planning horizon.

In 2013, the County updated the housing and employment growth projections to assist in the preparation of the updated County Travel Demand Model, which was used for the CEDHSP traffic analysis. These projections developed by BAE Urban Economics (2013) cover the western slope of ~~El Dorado~~ the County (excluding Placerville) and examine growth from 2010 to a planning horizon (now labeled 2035). Growth allocations based on the distribution of new development in the County between 2000 and 2011 and development applications from 2006 through present were used to extrapolate future growth. In 2010, there were 59,668 existing housing units. For 2035, it was projected that there would be 77,077 housing units. The BAE 2013 study projects that by 2015, 62,803 housing units exist, leaving approximately 14,300 housing units to be built in the 2035 planning horizon. The 2035 planning horizon forecasts differ only slightly from the 2025 planning horizon forecasts done in 2002. This is largely a result of the economic recession in the late 2000s, and the resulting drastic reduction in the rate of growth in ~~El Dorado~~ the County. Detail on the methodology for the forecasts is presented in the BAE memo, available on the County's website at [https://www.edcgov.us/Government/Planning/BAE\\_Report.aspx](https://www.edcgov.us/Government/Planning/BAE_Report.aspx).

Among the specific projects included in planning horizon for the County's General Plan are those considered to be existing commitments—projects for which a tentative map or development agreement existed before approval of the ~~2004~~ County's General Plan but that are not built out at the time the ~~2004~~ County's General Plan was adopted in 2004. These projects have the potential to contribute 14,565 dwelling units to the County's General Plan total (El Dorado County 2003). Since adoption of the County's General Plan, several of the approved projects have decreased in size or were partially built out and are now expected to supply an additional 7,216 of the possible 14,300 new dwelling units. These projects include the Bass Lake Hills Specific Plan, Carson Creek Specific Plan, El Dorado Hills Specific Plan, Marble Valley development, Promontory Specific Plan, and Valley View Specific Plan (Table 5-1).

**Table 5-1. El Dorado County Approved Projects — 2004 County General Plan**

Project	Residential Uses (dwelling units)			Commercial and Industrial/ Research and Development Uses (acres)	Parkland and Open Space Uses (acres)
	Entitled	Built	Remaining		
Bass Lake Hills Specific Plan	1,458	159 <del>162</del>	<del>1,299</del> 1,296	0	31 – Park 151 – OS
Carson Creek Specific Plan	1,700 1,925	1,160 1,544	540 381	99 2	37 – Park <del>199</del> 200 – OS
El Dorado Hills Specific Plan	6,162	4,614 4,929 <sup>a</sup>	1,548 1,233	301	60 – Park 808 – OS
Marble Valley Master Plan <sup>b</sup>	398 <sup>b</sup>	0	398	0	54 – Park 1,271 – OS
Promontory Specific Plan	1,100	709 753 <sup>c</sup>	391 348	7	35 – Park 101 – OS
Valley View Specific Plan	2,840	2,139	701	40	86 – Park 617 – OS
Total	13,658 13,883	8,781 9,526	4,877 4,357	447 350	303 – Park <del>3,147</del> 3,148 – OS

Source: El Dorado County 2023.

<sup>a</sup> As of ~~2021~~ 2023.

- b Tentative Map for Marble Valley Master Plan expired
  - c Includes ~~59-109~~ 16-66 lots that are recorded, but not yet built.
- OS = Open Space.

### Bass Lake Hills Specific Plan

The 1,196-acre Bass Lake Hills Specific Plan is approximately 3 miles east of the Sacramento–El Dorado County line, north of US 50 between El Dorado Hills and Cameron Park, and abuts the ~~El Dorado Hills Specific Plan (EDHSP)~~ on the east. The Bass Lake Hills Specific Plan was adopted in 1995 and allows development of 1,458 dwelling units with 31 acres of parks and 151 acres of open space (El Dorado County 1995a). As of March 2021, only 159 dwelling units had been constructed. On July 17, 2023, a Notice of Preparation for Town and Country Village, which is part of the Bass Lake Hills Specific Plan, was sent out with the following Project Description:

The project site would consist of two areas: the Project Development Area and the Program Study Area (see Figure 2). The Project Development Area consists of the northernmost and southernmost 30.3 acres of the project site, and would be developed with two hotels, retail services, two restaurants, a museum, an event center, associated parking, 56 residential cottages for employee housing, and an additional 56 residential cottages that may be rented on a daily or extended stay basis, which may require a conditional use permit. The Program Study Area consists of the central and easternmost 30.2 acres of the project site, and may include further development in the future such as additional hotels, medical facilities, senior housing, townhomes and cottages, and other uses allowed by the proposed zoning districts.

For environmental analysis purposes, the buildout of the Project Development Area of the project site will be evaluated at a project level. Buildout of the Program Study Area will be evaluated at a program level based on the potential allowable uses, building areas, and required parking described in the BLHSP Amendment document. The proposed project would require approval of a General Plan Amendment, BLHSP Amendment (Specific Plan Revision), Rezone, Planned Development Permit, Tentative Subdivision Map, and Conditional Use Permit, as well as other responsible agency approvals. In addition, depending upon the type and extent of signage proposed, the project may require entitlement(s) related to signage.

### Carson Creek Specific Plan

The Carson Creek Specific Plan, adopted in 1996 and amended in 1999, allows development of an approximately 710-acre area along the Sacramento County line, south of US 50 and adjacent to the El Dorado Hills Business Park. Buildout of the Carson Creek Specific Plan would allow ~~1,700~~ 1,925 dwelling units, with approximately ~~1,160~~ 1,544 constructed as of ~~March 2021~~ October 2023, up to 40,000 square feet (~~sf~~) of commercial uses, ~~up to 449,605 sf of research and development uses, and 780,279 sf of industrial uses,~~ 37 acres of public parkland, and ~~199~~ 200 acres of open space (El Dorado County 1999).

### El Dorado Hills Specific Plan

The El Dorado Hills Specific Plan allows development of up to 6,162 dwelling units, 301 acres of commercial uses, 60 acres of parks and public facilities, and 808 acres of open space uses on a 3,646-acre site north of US 50 and south of Green Valley Road, as well as approximately 158 acres of commercial land uses south of US 50 (El Dorado County Community Development Department 1988). Approximately ~~4,614~~ 4,929 dwelling units have been constructed as of ~~March 2021~~ October 2023.

### Marble Valley Master Plan

The Marble Valley Master Plan development, a 2,418-acre area south of US 50 between the Bass Lake Road and Cambridge Road interchanges, was approved by the County Board of Supervisors in 1997 for 398 dwelling units, 54 acres of parks and public facilities, and 1,271 acres of open space (El Dorado County 2003). However, the tentative map has expired and this project was not constructed, and there is a new proposed plan, which is described under *Other Projects*, below.

### Promontory Specific Plan

The Promontory Specific Plan allows development of an approximately 1,000-acre area, south of Folsom Reservoir and north of US 50, with up to 1,100 dwelling units, 7 acres of commercial and office uses, 35 acres of parks and public facilities, and 101 acres of public open space (El Dorado County 2003). As of ~~March 2021~~ October 2023, approximately ~~709~~ 752 dwelling units have been constructed or lots have been recorded.

### Valley View Specific Plan

The Valley View Specific Plan area covers 2,837 acres south of US 50 in the El Dorado Hills area and allows development of up to 2,840 dwelling units, 40 acres of commercial uses, including mixed-use development, 86 acres of multi-use open space (parks and public facilities), two schools, and 617 acres of passive open space and buffer areas (El Dorado County 2003). As of March 2021, approximately 2,139 dwelling units have been constructed.

## 5.2.1.2 Other Projects

Other more recent projects not specifically addressed in the County General Plan planning horizon assumptions are the Lime Rock Valley Specific Plan (LRVSP), Saratoga Estates (formerly Rancho Dorado) residential development, Tilden Park Project and Village of Marble Valley Specific Plan (VMVSP). In addition, the El Dorado Town Center Apartments, a four-story 214-unit apartment complex approved by the County in 2018, and now under construction, was originally planned as a hotel project in Village T of the EDHSP and was included as such in the planning horizon assumptions described above in the County General Plan. However, the change in use from hotel to residential results in higher density and requires a general plan amendment. The locations of these projects are shown in Figure 5-1. Residential and commercial development, and parks and open space lands associated with these projects, are described below and in Table 5-2. In addition, a targeted general plan amendment (TGPA) and zoning ordinance update (TGPA/ZOU) was approved in 2015, though there are no development projects associated with it.

**Table 5-2. Other Projects**

Project	Residential Uses		Commercial and Industrial/Research and Development Uses (acres)	Parkland and Open Space Uses (acres)
	Dwelling Units	Acres		
El Dorado Hills Town Center Apartments	214	4.6	0	0
Lime Rock Valley Specific Plan	800	358	0	8 – Park 333 – OS

Project	Residential Uses		Commercial and Industrial/Research and Development Uses (acres)	Parkland and Open Space Uses (acres)
	Dwelling Units	Acres		
Saratoga Estates (Rancho Dorado)	317	70.98	0	5.42 – Park 37.04 – OS
Tilden Park	14	2.97	8.22	0 – Park 1.64 – OS
Village of Marble Valley Specific Plan (as proposed)	3,236 <sup>a</sup>	797	57	87 – Park 1,284 – OS
Montano de El Dorado	–	–	3.3	–
Subtotal	4,581	1,233.55	68.52	100.42 – Park 1,655.68 – OS
Combined Park/OS Total	–	–	–	1,756.1

Sources: El Dorado County 2012a, 2012b, 2013a, 2015, 2020, 2021; G3 Enterprises 2015; Marble Valley Company 2015.

<sup>a</sup> Includes 398 dwelling units already approved. Net new units would be 3,236 – 398 = 2,838.  
OS = Open Space.

### El Dorado Hills Town Center Apartments Project

The Town Center Apartments project is a 214-unit apartment complex located at the northwest corner of Town Center Boulevard and Vine Street within the Town Center East Planned Development in El Dorado Hills. The site is within Village T of the EDHSP and was originally planned as a hotel, and as such is included in the County General Plan planning horizon. The project required an amendment to the County General Plan to increase residential density from 24 dwelling units/acre (du/ac) to 55 du/ac, amendments to the EDHSP, rezone, and revisions to the approved Town Center East Development Plan. The County approved the project in 2018 and is currently under construction. It is now fully built out and occupied.

### Lime Rock Valley Specific Plan

The proposed Lime Rock Valley Specific Plan would allow development of up to 800 residential units on approximately 360 acres, as well as an 8-acre neighborhood park with recreational amenities, and about 333 acres of public and private open space (El Dorado County 2013c). The project site is south of US 50, southwest of the Cambridge Road interchange, along Flying C Road. A portion of the site adjoins the proposed Village of Marble Valley Specific Plan. It is adjacent to the existing Cameron Estates subdivision on the north and the Royal Equestrian subdivision on the south.

### Saratoga Estates (Rancho Dorado) Residential Development

The approved Saratoga Estates (formerly Rancho Dorado) residential project, currently under construction, would include development of 317 residential units, 5.42 acres of public parkland, 37.04 acres of open space, and 8.4 acres of public roads in the El Dorado Hills area (El Dorado County 2015). The site is north of US 50 and 0.5 mile west of the intersection of US 50 and El Dorado Hills Boulevard. The initial first phase of the development has been built out and the second phase is underway.



### **Tilden Park Subdivision**

The Tilden Park subdivision consists of a proposed residential and commercial development on a 12.01-acre site north of Wild Chaparral Drive and 500 feet west of Crosswood Drive in Shingle Springs just north of US 50. The Tilden Park subdivision proposes development of three residential parcels, and a total of 38,550 square feet of commercial development within three commercial lots that would include retail, grocery, restaurant and office uses, as well as an 80-unit hotel (El Dorado County 2012b).

### **Village of Marble Valley Specific Plan**

The proposed Village of Marble Valley Specific Plan would replace the existing development agreement for the Marble Valley site, and would allow development of up to 3,236 residential units, 475,000 square feet of nonresidential uses, 55 acres of agricultural use, 87 acres of public facilities/recreational use (including 47 acres of public parkland), 1,284 acres of open space, and 61 acres of road impact areas and future right-of-way (El Dorado County 2013b). As such, buildout of the proposed Village of Marble Valley Specific Plan would increase the total number of dwelling units proposed within the Marble Valley site—and the County—by 3,236 dwelling units (note that the original Marble Valley Tentative Map has expired).

### **Montano De El Dorado Phase I and II Master Plan**

The proposed *Montano De El Dorado Phase I and II Master Plan* (project), approximately 16.8 acres, would expand the existing Montano de El Dorado retail center (Phase I) to include additional retail space, an office building, hotel, and a small amphitheater. Phase II would consist of a total of 10 buildings for a total floor area of approximately 75,400 square feet and 143,900 square feet of commercial and office uses. The project would also include the provision of outdoor special events within existing Phase I and within the proposed amphitheater and parking lots within Phase II.

### **Targeted General Plan Amendments/Zoning Ordinance Update**

The County approved targeted amendments to certain County General Plan policies and land use designations (i.e., TGPA) and a comprehensive update to the zoning ordinance (i.e., ZOU) in December 2015. The TGPA/ZOU project does not include any site-specific development proposals, although it does include adoption of guidelines for mixed-use development. Rather, it is limited to amendments to County General Plan policies and a comprehensive revision of the zoning ordinance. Policies pertinent to the project include policies to increase the maximum density for the residential portion of mixed use projects in Community Regions from 16 du/ac to 20 du/ac, to amend the multifamily residential (MFR) designation to encourage a full range of housing types, to encourage infill projects.

#### **5.2.1.3 Folsom South of US Highway 50**

One other project considered in the cumulative analysis assumes buildout of the grazing land south of US 50 and north of White Rock Road that was annexed to the city of Folsom in 2012 and is currently being developed.

## 5.2.2 Analysis of Potential Cumulative Impacts

### 5.2.2.1 Aesthetics

[No changes from November 2015 DEIR.]

### 5.2.2.2 Air Quality

This section replaces the previous Section 5.2.2.2, *Air Quality*, in the DEIR in its entirety.

The County does not currently attain the NAAQS or CAAQS for ozone, the NAAQS for PM<sub>2.5</sub>, or the CAAQS for PM<sub>10</sub>. Certain individuals residing in areas that do not meet the ozone or particulate matter ambient air quality standards, including El Dorado County, could be exposed to pollutant concentrations that cause or aggravate acute and/or chronic health conditions (e.g., asthmas, lost workdays, premature mortality). EDCAQMD has developed project-level thresholds that are derived from region-specific modeling that demonstrates the air basin can cumulatively accommodate project emissions below the threshold levels without affecting attainment of the health-protective NAAQS or CAAQS, as required by the local air quality plans.

As discussed in Section 3.2, *Air Quality*, the CEDHSP Sustainability Element includes several policies that would contribute to criteria pollutant reductions during construction and operation. However, construction and combined construction and partial operation of new buildings would result in emissions in excess of EDCAQMD's significance thresholds (see Section 3.2, Impacts AQ-2a and 2c). Accordingly, build-out of the CEDHSP would contribute to the existing regional cumulative air quality impacts before mitigation. Mitigation Measures AQ-2a through AQ-2d and GHG-1 would reduce emissions to below EDCAQMD's thresholds. Thus, construction and combined construction and operations emissions would not be cumulatively considerable after implementation of mitigation.

New residents and adjacent sensitive receptors could be exposed to significant health risks from TACs during buildout of the CEDSP. CEDHSP Policy 8.59 and Mitigation Measures AQ-2b, AQ-2c, and GHG-1 would reduce health risks to new receptors and help control TAC emission during construction. However, there may be instances where project-specific conditions preclude the reduction of health risks below EDCAQMD thresholds, indicating that the proposed project's contribution to existing ambient TAC health risks would be cumulatively considerable during construction. Operational sources of TAC would be minor and limited to new commercial uses developed under the project. CEDHSP Policy 8.59 would also reduce cumulative exposure of new residents to ambient source of DPM. Accordingly, the project's contribution to operational TAC impacts would be less than cumulatively considerable, and this cumulative impact would be less than significant.

New and existing residents may also be exposed to NOA during construction, which might occur during the same period as other projects in the county. Possible cumulative NOA impacts as a result of these combined activities would be addressed by the standard EDCAQMD measures that apply to construction projects (e.g., Rule 223-2), in addition to project-level mitigation strategies identified for each project, including Mitigation Measure AQ-3. Accordingly, the project's contribution to NOA impacts would be less than cumulatively considerable, and this cumulative impact would be less than significant.

Vehicle trips from build-out of the CEDHSP, in combination with existing and future traffic volumes, would not result in local cumulative impacts with respect to CO hot spots. CO hot spots are typically observed at heavily congested roadway intersections where a substantial number of gasoline-powered vehicles idle for prolonged periods throughout the day; however, modeling conducted at intersections with the highest traffic volumes and worst congestion shows that CO concentrations at these intersections would not be in excess of the CAAQS and NAAQS (see Section 3.2, *Air Quality*, Impact AQ-3c). Therefore, the cumulative impact would be less than significant.

Buildout of the CEDHSP would not result in new or worsened odors that would affect a substantial number of people. Odors from diesel exhaust, architectural coatings, and cooking would be similar to those generated by the surrounding environment, which includes adjacent residential and commercial land uses, as well as traffic on US 50. Implementation of the project would not exacerbate existing odors associated with wastewater treatment at the El Dorado Hills WWTP. Accordingly, the project's contribution to odor impacts would be less than cumulatively considerable, and this cumulative impact would be less than significant.

### **5.2.2.3 Biological Resources**

[No changes from November 2015 DEIR.]

### **5.2.2.4 Cultural Resources**

[No changes from November 2015 DEIR.]

### **5.2.2.5 Geology, Soils, Minerals, and Paleontological Resources**

[No changes from November 2015 DEIR.]

### **5.2.2.6 Greenhouse Gas Emissions**

This section replaces the previous Section 5.2.2.6, *Greenhouse Gas Emissions*, in the Partial Recirculated DEIR in its entirety.

Climate change is a global problem, and GHGs are global pollutants, unlike criteria air pollutants (such as ozone precursors, which are primarily pollutants of regional and local concern). Given their long atmospheric lifetimes, GHGs emitted by numerous sources worldwide accumulate in the atmosphere. No single emitter of GHGs is large enough to trigger global climate change on its own. Rather, climate change is the result of the individual contributions of past, present, and future sources. Therefore, GHG impacts presented in Section 3.6, *Greenhouse Gas Emissions*, are inherently cumulative.

As discussed in Section 3.6 although the CEDHSP has a diverse suite of strategies that target area and energy source emissions, many of the measures are voluntary, and there is no guarantee that the action would be incorporated into the project design of all future development. Development under the CEDHSP would also generate new vehicle trips, which could conflict with the state's goal to reduce regional per-capita VMT. Construction would result in annual GHG emissions from equipment and vehicles.

Mitigation Measures GHG-1, GHG-2, AQ-2b, and AQ-2c are required to reduce GHG emissions generated during construction and operation of the CEDHSP. The purpose of these measures is to require specific project GHG emission reductions consistent with California GHG-reduction targets

required in SB 32 for 2030, and to support long-term reductions consistent with the need to eventually reach carbon neutrality statewide pursuant to AB 1279. However, because of the long-term buildout of the project, the availability, affordability, and enforceability of specific GHG reduction strategies (including GHG credits) in the future is unknown. Thus, this EIR conservatively finds that the contribution of GHG emissions associated with the project to cumulative GHG emissions would not be reduced to a less-than-significant impact and could substantially contribute to a significant cumulative impact. This impact would be significant and unavoidable.

#### **5.2.2.7 Hazards and Hazardous Materials**

[No changes from November 2015 DEIR.]

#### **5.2.2.8 Hydrology, Water Quality, and Water Resources**

[No changes from November 2015 DEIR.]

#### **5.2.2.9 Land Use Planning and Agricultural Resources**

[No changes from November 2015 DEIR.]

#### **5.2.2.10 Noise and Vibration**

[No changes from November 2015 DEIR.]

#### **5.2.2.11 Population and Housing**

[No changes from November 2015 DEIR.]

#### **5.2.2.12 Public Services and Utilities**

[No changes from November 2015 DEIR.]

#### **5.2.2.13 Recreation**

[No changes from November 2015 DEIR.]

#### **5.2.2.14 Traffic and Circulation**

[No changes from Second Partial Recirculated DEIR.]

### **5.3 Significant and Unavoidable Impacts**

~~State CEQA Guidelines~~ Section 21100(b) of CEQA and Section 15126(b) of the ~~State CEQA Guidelines~~ require that an EIR describe any significant impacts, including those that can be mitigated but not reduced to a less-than-significant level. Where there are impacts that cannot be alleviated without imposing an alternative design, their implications and the reasons why the project is being proposed, notwithstanding their effect, should also be described.

A significant and unavoidable impact is one that would cause a substantial adverse effect on the environment and for which no mitigation is available to reduce the impact to a less-than-significant

level. Most of the impacts of the proposed project would be less than significant or would be mitigated to a less-than-significant level. The impacts below are those that would remain significant and unavoidable after mitigation.

### 5.3.1 Air Quality

- **Impact AQ-1 and AQ-1 CUM:** Conflict with or obstruct implementation of the applicable air quality plan
- **Impact AQ-3a and AQ-3a CUM:** Expose sensitive receptors to substantial toxic air contaminant concentrations and health risks during construction

### 5.3.2 Cultural Resources

- **Impact CUL-1 CUM:** Cause a substantial adverse change in the significance of an archaeological resource that is a historical resource as defined in State CEQA Guidelines Section 15064.5

### 5.3.3 Greenhouse Gas Emissions

- **Impact GHG-1 and GHG-1 CUM:** Generate ~~greenhouse gas~~ GHG emissions, either directly or indirectly, that may have a significant impact on the environment
- **Impact GHG-2 and GHG-2 CUM:** Conflict with applicable plan, policy or regulation adopted for the purpose of reducing emissions of ~~greenhouse gases~~ GHGs

### 5.3.4 Noise

- **Impact NOI-1a:** Expose persons to or generate noise levels in excess of standards established in the General Plan as a result of construction activities
- **Impact NOI-4:** Result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project during construction
- **Impact NOI-5:** Be located within an airport land use plan area, or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport and expose people residing or working in the project area to excessive noise levels

## 5.4 Significant Irreversible Environmental Changes

[No changes from the April 2016 Recirculated DEIR.]

## Chapter 1, *Introduction*

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## Chapter 2, *Project Description*

[No changes from November 2015 DEIR.]

## Chapter 3, *Impact Analysis*

### Section 3.2, *Air Quality*

This section replaces the previous Section 3.2, Air Quality, in the DEIR in its entirety.

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## Section 3.6, *Greenhouse Gas Emissions*

This section replaces the previous Section 3.6, *Greenhouse Gas Emissions*, in the Partial Recirculated DEIR in its entirety.

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## Chapter 4, Alternatives Analysis

[No changes from Second Partial Recirculated DEIR.]

## Chapter 5, Other CEQA Considerations

[No changes from Second Partial Recirculated DEIR.]

Appendix A

# **Air Quality and GHG Technical Report**

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Draft Air Quality and Greenhouse Gas  
Modeling Technical Report  
for the  
Central El Dorado Hills Specific Plan

Prepared for:  
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August 2023

Draft Air Quality and Greenhouse Gas Modeling Technical Report  
for the  
Central El Dorado Hills Specific Plan

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August 2023

# TABLE OF CONTENTS

Section	Page
1 INTRODUCTION.....	1
2 PROJECT DESCRIPTION.....	1
3 AIR QUALITY.....	1
3.1 Methods.....	1
3.2 Results.....	3
4 GREENHOUSE GASES.....	9
4.1 Methods.....	9
4.2 Results.....	10
5 REFERENCES.....	15

## Appendices

A Air Quality and Greenhouse Gas Modeling Results

## Tables

Table 3-1	Construction Scheduling and Phasing.....	2
Table 3-2	Maximum Daily Unmitigated Construction Emissions (pounds per day) <sup>a</sup> (Table 3.2-6 of the EIR).....	4
Table 3-3	Maximum Daily Mitigated Construction Emissions (pounds per day) with Implementation of EIR Mitigation Measures <sup>a, b</sup> (Table 3.2-7 of the EIR).....	5
Table 3-4	Daily Operational Criteria Air Pollutant and Precursor Emissions for the Unmitigated, Partially Mitigated, and Fully Mitigated (with natural gas and without natural gas) Scenarios at Full Buildout at Buildout (pounds per day) <sup>a</sup> .....	7
Table 3-5	Maximum Daily Mitigated Combined Construction and Operational Emissions (pounds per day) with Implementation of EIR Mitigation Measures <sup>a</sup> (Table 3.2-9 in the EIR).....	8
Table 4-1	Construction-Related Greenhouse Gas Emissions.....	11
Table 4-2	2030, 2040, and 2045 Operational Greenhouse Gas Emissions Associated with Unmitigated, Partially Mitigated With CEDHSP Policies, and Fully Mitigated With EIR Measures (with natural gas and without natural gas) Scenarios (metric tons per year).....	14

## LIST OF ABBREVIATIONS

CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEDHSP	Central El Dorado Hills Specific Plan
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
EDCAQMD	El Dorado County Air Quality Management District
EIR	Environmental Impact Report
GHG	Greenhouse Gas
kBTU	thousand British thermal units
kWh	kilowatt hour
RCEM	Roadway Construction Emissions Model
RPS	Renewable Portfolio Standards
SMAQMD	Sacramento Metropolitan Air Quality Management District
VMT	vehicle miles traveled
VOC	volatile organic compounds



# 1 INTRODUCTION

This Air Quality and Greenhouse Gas (GHG) Technical Report (referred to as Technical Report hereafter) presents an update to the emissions modeling conducted for the Central El Dorado Hills Specific Plan (CEDHSP) Environmental Impact Report (EIR), using the latest emissions modeling software and accounting for recent legislative requirements that address air pollutant and GHG emissions reductions. These updated emissions estimates shall be the basis for updating significance determinations for impacts AQ-2a and AQ-2b of Section 3.2 Air Quality of the EIR, and Impacts GHG-1a and GHG-1b of Section 3.6, Greenhouse Gas Emissions of the EIR, in accordance with El Dorado County Air Quality Management District (EDCAQMD) thresholds (EDCAQMD 2002a).

## 2 PROJECT DESCRIPTION

The project would allow the development of up to 1,000 residential dwelling units, 11 acres of civic-limited commercial use (50,000 square feet of commercial use), a 15-acre Village Park, and 1 acre of neighborhood park within 169 acres of natural open space in the center of the El Dorado Hills community. The project consists of two planning areas: the Serrano Westside planning area, which would complement the existing Serrano development with gated residential neighborhoods, civic or commercial development, and community parks; and the Pedregal planning area, which would consist of residential neighborhoods.

Several infrastructure improvements outside the CEDHSP area would be required to support the project. These off-site improvements would include connections to existing water and wastewater facilities, road extensions, pedestrian access to retail uses, and a backbone recycled water system within the Serrano planning area.

## 3 AIR QUALITY

This section presents the air quality assessment which includes emissions estimates for short-term (construction) and long-term (operational) increases in criteria air pollutants (i.e., particulate matter) and precursors (i.e., reactive organic gases [ROG] and nitrogen oxides [NO<sub>x</sub>]). This assessment includes carbon monoxide (CO) mass emissions modeling but does not include CO dispersion modeling nor analysis of toxic air contaminants and odors. The following sections present the methods of analysis and associated air pollutant emissions that could result from buildout of the CEDHSP.

### 3.1 METHODS

Air pollutant emissions associated with construction and operation of the project were assessed and quantified using standard and accepted software tools, techniques, and emissions factors. The construction and operational emissions modeling and assessment is consistent with the recommendations of EDCAQMD and the California Air Resources Board (CARB). In addition, recent legislative requirements, CEDHSP policies, and EIR mitigation measures that would result in emission reductions are included as mitigated project scenarios. A summary of modeling methodology and calculations for construction and operational emissions is provided below.

#### 3.1.1 Construction

Criteria air pollutant and precursor emissions associated with project construction were estimated using the California Emissions Estimator Model (CalEEMod), version 2020.4.0, and Sacramento Metropolitan Air Quality Management District's (SMAQMD's) Roadway Construction Emissions Model (RCEM), version 9.0.0, which were the latest tools available at the time of the analysis. Modeling inputs included project-specific land use types and sizes and construction phasing, timing and activities included in Chapter 2, "Project Description," of the EIR, and provided by the project applicant. Model defaults for all other assumptions were used for construction emissions modeling. Buildout of the project was assumed to occur over an extended period beginning in 2023, with full buildout anticipated by 2040. Construction was assumed to progress according to the schedule summarized in Table 3-1. See [Appendix A](#) for model outputs and detailed assumptions.

**Table 3-1 Construction Scheduling and Phasing**

Land Use Type	Units	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
<b>Residential</b>																
Village Residential-Low (du)	37	X	X	X	X	X	X	X	X	X	X	-				
Village Residential Medium-Low (du)	123		X	X	X	X	X	X	X	X	X	-				
Village Residential Medium-High (du)	310			X	X	X	X	X	X	X	X	-				
Village Residential-High (du)	530			X	X	X						-	X	X	X	X
<b>Commercial/Other</b>																
Civic-Limited Commercial (acres)	11											-			X	
Village Park + City Park (acres)	16							X	X			-				
Roads and Landscaped Lots (acres)	12							X	X			-				
Trails	-	X	X		X							-				
Wetlands	-						X				X	-				
<b>Offsite Improvements</b>																
Park Drive Extension (linear feet)	1,200		X									-				
Potential connection to Silva Valley Parkway (linear feet)	3,700											-			X	X
Recycled Water Line (linear feet)	3,000				X							-				
Pedregal water lines (linear feet)	365	X	X									-				
EID sewer line at Serrano Parkway (linear feet)	300				X							-				

Notes: du = dwelling unit; EID = El Dorado Irrigation District.

Source: El Dorado County 2021.

### 3.1.2 Operation

Operational mobile, area, and energy emissions were also estimated using CalEEMod, version 2020.4.0 using a combination of project-specific information and model defaults. Modeling inputs included land use types, sizes, and other project details and assumptions included the EIR, including updated inputs from the project applicant. Project-specific trip rates and vehicle miles traveled (VMT) were obtained from Fehr & Peers, which were used to estimate mobile-source emissions. Electricity consumption is based on model defaults, while electricity emissions factors were adjusted based on the most recent power label available for Pacific Gas & Electric (PG&E) to account for an increase in carbon-free electricity pursuant to the Renewables Portfolio Standard (RPS) anticipated for operational years including in this analysis. Area-source and waste emissions were modeled using CalEEMod default values. Water and wastewater emissions were modeled using project-specific consumption values specified in the water supply assessment.

Operational modeling was conducted for various years. For purposes of analysis, buildout is assumed to occur in 2040. Additionally, operational modeling was conducted for project operations in both 2030 and 2045 to align with statewide milestone years for GHG targets. Lastly, operational modeling was conducted for operational years that could potentially overlap with construction. As discussed below and as shown in Table 3.1, vertical construction of several residential units would begin in year 3 and operation emissions could begin immediately thereafter in year 4. Accordingly, concurrent construction and operational activities would occur from years 4 through 15, resulting in higher maximum daily emissions than either component when analyzed separately. For purposes of analysis, it was assumed that the first operational year would be 2027 (year 4 of construction).

See Appendix A for model outputs and detailed assumptions.

## 3.2 RESULTS

### 3.2.1 Construction Emissions

Construction emissions were modeled for two scenarios: unmitigated and mitigated. The mitigated scenario includes reductions from mitigation measures provided in the EIR. As shown in Table 3-2, several construction activities would likely occur concurrently. To ensure a conservative analysis, maximum daily emissions during these periods of overlap were estimated assuming all equipment would operate at the same time. This approach identifies the maximum daily project-related air quality impact during construction. Estimated unmitigated construction emissions, which do not include emissions reductions from mitigation measures, are summarized in Table 3-2 (which is Table 3.2-5 of the EIR).

**Table 3-2 Maximum Daily Unmitigated Construction Emissions (pounds per day)<sup>a</sup> (Table 3.2-5 of the EIR)**

Year	ROG	NO <sub>x</sub>	CO	PM <sub>10</sub>			PM <sub>2.5</sub>		
				Dust	Exhaust	Total	Dust	Exhaust	Total
Year 1	17	45	40	7	2	9	4	2	5
Year 2	64	66	58	35	3	38	13	3	16
Year 3	<u>272</u>	28	27	20	1	21	10	1	11
Year 4	<u>277</u>	78	78	28	3	31	12	3	15
Year 5	<u>271</u>	28	27	20	1	21	10	1	11
Year 6	<u>132</u>	30	28	20	1	21	10	1	11
Year 7	<u>142</u>	28	27	22	1	23	10	1	11
Year 8	<u>136</u>	14	23	22	<1	22	10	<1	11
Year 9	<u>123</u>	14	23	20	<1	20	10	<1	11
Year 10	<u>123</u>	16	25	20	1	21	10	1	11
Year 11 <sup>c</sup>	=	=	-	-	-	-	-	-	-
Year 12	<u>140</u>	14	17	19	<1	20	10	<1	11
Year 13	<u>140</u>	10	17	19	<1	19	10	<1	10
Year 14	<u>210</u>	17	39	42	1	43	15	1	15
Year 15	<u>142</u>	17	33	42	1	42	15	<1	15
Threshold	82	82	N/A			BMPs			BMPs

Notes: BMPs = best management practices; CO = carbon monoxide; EIR = environmental impact report; N/A = not applicable; NO<sub>x</sub> = nitrogen oxides; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; ROG = reactive organic gases; TR = technical report.

**Bold** values indicate exceedance of applicable threshold.

<sup>a</sup> Values may not sum exactly due to rounding.

<sup>b</sup> EDCAQMD CEQA Guidelines consider dust impacts to be less than significant for projects that implement BMPs. EIR Mitigation Measure AQ-2c outlines these BMPs and is required to reduce the impact of construction-related fugitive dust to a less-than-significant level (EDCAQMD 2002b).

<sup>c</sup> Construction phasing and timing presented in Table 3-1, indicate no construction during year 11, thus no construction emissions.

Source: CalEEMod 2020.4.0 and RCEM 9.0 (based on modeling conducted by Ascent Environmental in 2021).

Table 3-3 below presents the criteria air pollutant and precursor construction-related emissions from buildout of the project with EIR mitigation measures applied. Mitigated construction emissions were quantified using CalEEMod and off-model calculations in Microsoft Excel. See Appendix A for model outputs and detailed assumptions.

- ▶ **Mitigation Measure AQ-2a. Low-Volatile Organic Compounds (VOC) Coatings During Construction.** Mitigated construction modeling assumed the use of low-VOC coatings during construction activity with a VOC content of 10 grams per liter.
- ▶ **Mitigation Measure AQ-2b. 10 Percent Reduction in NO<sub>x</sub> During Construction Years 1-5.** Mitigated construction modeling assumed a 10 percent reduction in NO<sub>x</sub> emissions from off-road equipment during construction years 1-5.
- ▶ **Mitigation Measure AQ-2c. Tier 4 Final Construction Equipment.** Mitigated construction modeling assumed Tier 4 Final off-road equipment would be used during construction between construction years 6-15.
- ▶ **Mitigation Measure AQ-2d. 61 Percent Reduction in Fugitive Dust During Construction.** Mitigated construction modeling applied a 61 percent reduction in PM<sub>10</sub> and PM<sub>2.5</sub> dust construction emissions off-model. The anticipated reduction in fugitive dust is consistent with EDCAQMD’s and South Coast Air Quality Management District’s fugitive dust reduction methodology (EDCAQMD 2002b, SCAQMD 2007).

**Table 3-3 Maximum Daily Mitigated Construction Emissions (pounds per day) with Implementation of EIR Mitigation Measures (Table 3.2-6 of the EIR)**

Source	ROG <sup>ab</sup>	NO <sub>x</sub> <sup>bc</sup>	CO <sup>b</sup>	PM <sub>10</sub>			PM <sub>2.5</sub>		
				Dust <sup>d</sup>	Exhaust <sup>b</sup>	Total <sup>e</sup>	Dust <sup>d</sup>	Exhaust <sup>b</sup>	Total <sup>e</sup>
Year 1	5	40	40	3	2	5	1	2	3
Year 2	7	60	58	14	3	16	5	3	8
Year 3	11	25	27	8	1	9	4	1	5
Year 4	17	70	78	11	3	14	5	3	8
Year 5	11	25	27	8	1	9	4	1	5
Year 6	6	5	35	8	<1	8	4	<1	4
Year 7	6	8	33	8	<1	9	4	<1	4
Year 8	6	8	33	8	<1	9	4	<1	4
Year 9	5	3	33	8	<1	8	4	<1	4
Year 10	5	5	35	8	<1	8	4	<1	4
Year 11 <sup>f</sup>	=	=	-	-	-	-	-	-	-
Year 12	6	3	21	7	<1	8	4	<1	4
Year 13	6	3	21	7	<1	8	4	<1	4
Year 14	12	10	50	17	<1	17	6	<1	6
Year 15	9	17	33	16	1	17	6	<1	6
Threshold	82	82	N/A		-		BMPs <sup>g</sup>	-	

Notes: BMPs = best management practices; CO = carbon monoxide; EDCAQMD = El Dorado County Air Quality Management District; EIR = environmental impact report; N/A = not applicable; NO<sub>x</sub> = nitrogen oxides; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; ROG = reactive organic gases; TR = technical report.

**Bold** values indicate exceedance of applicable threshold.

- <sup>a</sup> Assumes use of low-volatile organic compound (VOC) coatings that have a VOC content of 10 grams per liter per Mitigation Measure AQ-2a.
- <sup>b</sup> Assumes use of Tier 4 Final construction equipment used during construction years 6-15 per Mitigation Measure AQ-2c.
- <sup>c</sup> Assumes a 10 percent reduction in NO<sub>x</sub> during construction years 1-5 per Mitigation Measure AQ-2b.
- <sup>d</sup> Assumes a 61 percent reduction in fugitive dust per Mitigation Measure AQ-2d.
- <sup>e</sup> Values may not sum exactly due to rounding.
- <sup>f</sup> Construction phasing and timing and presented in Table 3-1 indicate no construction during year 11, thus no construction emissions.
- <sup>g</sup> EDCAQMD CEQA Guidelines consider dust impacts to be less than significant for projects that implement BMPs. EIR Mitigation Measure AQ-2c outlines these BMPs and is required to reduce the impact of construction-related fugitive dust to a less-than-significant level (EDCAQMD 2002b).

Source: CalEEMod 2020.4.0 and RCEM 9.0 (based on modeling conducted by Ascent Environmental in 2021)

## 3.2.2 Operational Emissions

Operational emissions were modeled for four scenarios: an unmitigated scenario, a partially mitigated scenario that accounts for reductions from recent legislative requirements and quantified CEDHSP policies, and a fully mitigated scenario that accounts for reductions from the partially mitigated scenario in addition to mitigation measures proposed in the EIR (no natural gas), as well as a fully mitigated scenario that accounts for reductions from the partially mitigated scenario in addition to mitigation measures proposed in the EIR (with natural gas). Based on the project construction schedule, it was assumed that the first operational year at full buildout would be 2040. The scenarios are described below. Emissions were quantified using CalEEMod and off-model calculations in Microsoft Excel. See Appendix A for model outputs and detailed assumptions.

The unmitigated scenario presents criteria air pollutant and precursor emissions from project buildout with legislative requirements that are default in CalEEMod at the time of analysis. The analysis does not take into account CEDHSP policies or EIR mitigation measures.

The partially mitigated scenario presents criteria air pollutant and precursor emissions from project buildout with legislative requirements and CEDHSP policies applied. The EIR mitigation measures are not accounted for in this scenario. Daily operational emissions were quantified using CalEEMod and off-model calculations in Microsoft Excel. The CEDHSP policies applied to this scenario are as follows:

- ▶ **Policy 8.50. Natural Gas Hearths Only.** Mitigated operational modeling removed all natural gas hearths. It was assumed that if electric fireplaces were installed, the electricity demand associated with electric fireplaces would be generated by the onsite renewable energy generation systems.
- ▶ **Policy 8.51. Ban on Wood-burning Fireplaces.** Mitigated operational modeling removed all conventional and non-conventional wood-burning fireplaces.

The fully mitigated scenario presents the mitigated criteria air pollutant and precursor emissions with legislative requirements, CEDHSP policies, and mitigation measures from the EIR. The CEDHSP policies applied to this scenario are as follows:

- ▶ **Policy 8.50. Natural Gas Hearths.** The same assumptions described in the scenario above were applied.
- ▶ **Policy 8.51. Wood-Burning Fireplaces.** The same assumptions described in the scenario above were applied.

In addition, Mitigation Measure GHG-4 requires that all buildings be constructed to be all-electric and requires no natural gas infrastructure to be installed. However, as described in the Draft EIR, Mitigation Measure GHG-4 permits some natural gas use in the future if certain conditions are met. For purposes of providing a conservative analysis, two modeling scenarios were performed for the mitigated scenarios: one to estimate emissions assuming no natural gas consumption, and one assuming there would be natural gas consumption.

Table 3-4 below presents the daily operational criteria air pollutant and precursor emissions for each of these four scenarios at full buildout.

**Table 3-4 Daily Operational Criteria Air Pollutant and Precursor Emissions for the Unmitigated, Partially Mitigated, and Fully Mitigated (with natural gas and without natural gas) Scenarios at Full Buildout at Buildout (pounds per day)<sup>a</sup>**

Scenario	Source	ROG	NO <sub>x</sub>	CO	PM <sub>10</sub>			PM <sub>2.5</sub>		
					Dust	Exhaust	Total	Dust	Exhaust	Total
Unmitigated	Area	1,568	31	1,971	-	265	265	-	265	265
	Energy	<1	4	2	-	<1	<1	-	<1	<1
	Mobile	21	13	135	33	<1	34	9	<1	9
	<b>Total</b>	<b>1,589</b>	<b>48</b>	<b>2,108</b>	<b>33</b>	<b>266</b>	<b>299</b>	<b>9</b>	<b>266</b>	<b>275</b>
Partially Mitigated <sup>b</sup>	Area	39	16	89	-	2	2	-	2	2
	Energy	<1	4	2	-	<1	<1	-	<1	<1
	Mobile	21	13	135	33	<1	34	9	<1	9
	<b>Total</b>	<b>61</b>	<b>34</b>	<b>225</b>	<b>33</b>	<b>2</b>	<b>36</b>	<b>9</b>	<b>2</b>	<b>11</b>
Fully Mitigated with Natural Gas <sup>c</sup>	Area	39	16	89	-	2	2	-	2	2
	Energy	<1	4	2	-	<1	<1	-	<1	<1
	Mobile	21	13	135	33	<1	34	9	<1	9
	<b>Total</b>	<b>61</b>	<b>34</b>	<b>225</b>	<b>33</b>	<b>2</b>	<b>36</b>	<b>9</b>	<b>2</b>	<b>11</b>
Fully Mitigated without Natural Gas <sup>d</sup>	Area	39	16	89	-	2	2	-	2	2
	Energy	-	-	-	-	-	-	-	-	-
	Mobile	21	13	135	33	<1	34	9	<1	9
	<b>Total</b>	<b>60</b>	<b>29</b>	<b>224</b>	<b>33</b>	<b>2</b>	<b>35</b>	<b>9</b>	<b>2</b>	<b>11</b>
Threshold		82	82		CAAQS <sup>e</sup>			CAAQS <sup>e</sup>		
Exceeds threshold?	Yes (Unmitigated Only)	No	N/A	CAAQS <sup>e</sup>			CAAQS <sup>e</sup>			

Notes: CAAQS = California Ambient Air Quality Standards; CO = carbon monoxide; EDCAQMD = El Dorado County Air Quality Management District; N/A = not applicable; NO<sub>x</sub> = nitrogen oxides; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; ROG = reactive organic gases.

<sup>a</sup> Values may not add due to rounding.

<sup>b</sup> Emissions account for reductions achieved by CEDHSP policies 8.50 and 8.51.

<sup>c</sup> Emissions account for reductions achieved by CEDHSP policies 8.50, 8.51, and EIR Mitigation Measure GHG-4 assuming natural gas could still be combusted on-site.

<sup>d</sup> Emissions account for reductions achieved by CEDHSP policies 8.50, 8.51, and EIR Mitigation Measure GHG-4 assuming natural gas would not be combusted on-site.

<sup>e</sup> EDCAQMD considers CO and PM<sub>10</sub> emissions significant if they would cause or contribute to violations of the CAAQS or NAAQS (EDCAQMD 2002). Use of the PM<sub>10</sub> standard as a surrogate for the assessment of PM<sub>2.5</sub> impacts is considered appropriate because PM<sub>2.5</sub> is a substituent of PM<sub>10</sub>.

Source: CalEEMod 2020.4.0 (based on modeling conducted by Ascent Environmental in 2023)

Construction of several residential units would start in year 1 and be completed by the end of year 3, with operation emissions beginning immediately thereafter in year 4. Accordingly, concurrent construction and operational activities would occur from years 4 through 15, resulting in higher maximum daily emissions than either component when analyzed separately.

Combined construction and operational emissions are presented in Table 3-5 and compared with the EDCAQMD’s thresholds. The estimated construction emissions assume implementation of Mitigation Measures AQ-2a through AQ-2d; operational emissions include emissions benefits from applicable and quantifiable CEDHSP policies (Policies 8.50, and 8.51). Mitigation Measures GHG-1 and GHG-4 are not included in the assessment. The analysis also conservatively assumes all structures would be fully occupied immediately following construction.

As shown, combined construction and operational emissions would not exceed EDCAQMD’s thresholds for any criteria pollutant.

**Table 3-5 Maximum Daily Mitigated Combined Construction and Operational Emissions (pounds per day) with Implementation of EIR Mitigation Measures <sup>a</sup> (Table 3.2-8 in the EIR)**

Year <sup>b</sup>	ROG	NO <sub>x</sub>	CO	PM <sub>10</sub>			PM <sub>2.5</sub>		
				Dust	Exhaust	Total	Dust	Exhaust	Total
Year 4	27	77	117	15	4	19	6	3	9
Year 5	30	37	97	16	2	18	6	2	8
Year 6	32	21	135	20	1	21	7	1	8
Year 7	36	26	143	22	1	23	8	1	9
Year 8	39	26	153	23	1	24	8	1	9
Year 9	42	24	163	24	1	25	8	1	10
Year 10	45	26	173	25	2	27	9	1	10
Year 11 <sup>c</sup>	42	23	148	19	2	20	5	2	6
Year 12	48	26	169	26	2	28	9	2	10
Year 13	52	28	184	29	2	30	10	2	11
Year 14	62	38	229	40	2	42	12	2	14
Year 15	69	50	253	47	3	50	14	3	17
Threshold	82	82	CAAQS <sup>c</sup>	BMPs	-	CAAQS <sup>c</sup>	BMPs	-	CAAQS <sup>c</sup>

Notes: CO = carbon monoxide; EDCAQMD = El Dorado County Air Quality Management District; EIR = environmental impact report; N/A = not applicable; NO<sub>x</sub> = nitrogen oxides; PM<sub>2.5</sub> = particulate matter less than or equal to 2.5 microns; PM<sub>10</sub> = particulate matter less than or equal to 10 microns; ROG = reactive organic gases; TR = technical report.

<sup>a</sup> Values may not sum exactly due to rounding.

<sup>b</sup> Buildout of the project is anticipated to occur over an extended period beginning in 2023 and ending in 2037. Emissions were quantified assuming construction would begin in 2023 and the first buildings could become operational in 2027.

<sup>c</sup> EDCAQMD considers CO and PM<sub>10</sub> emissions significant if they would cause or contribute to violations of the CAAQS or NAAQS (EDCAQMD 2002). Use of the PM<sub>10</sub> standard as a surrogate for the assessment of PM<sub>2.5</sub> impacts is considered appropriate because PM<sub>2.5</sub> is a substituent of PM<sub>10</sub>.

Source: CalEEMod 2020.4.0 and RCEM 9.0 (based on modeling conducted by Ascent Environmental in 2021 and 2023)



## 4 GREENHOUSE GASES

This section presents the GHG assessment which includes emissions estimates for short-term (construction) and long-term (operational) increases in GHG emissions. The following sections present the methods of analysis and associated GHG emissions that could result from buildout of the CEDHSP.

### 4.1 METHODS

GHG emissions modeling associated with construction and operation of the project were assessed and quantified using standard and accepted software tools, techniques, and emission factors. The construction and operational emissions modeling and assessment is consistent with the recommendations of EDCAQMD and CARB. In addition, recent legislative requirements, CEDHSP policies, and mitigation measures that result in emissions reductions are included as mitigated project scenarios. A summary of modeling methodology and calculations for construction and operational emissions is provided below.

#### 4.1.1 Construction

GHG emissions from construction of the project were estimated using CalEEMod, version 2020.4.0, and SMAQMD RCEM, version 9.0.0, which were the latest tools available at the time of the analysis. Modeling inputs included project-specific land use types and sizes and construction phasing, timing and activities included in EIR Chapter 2, "Project Description," including updated inputs and project timing from the project applicant. Model defaults for all other assumptions were used for construction emission modeling. Buildout of the project was assumed to occur over a fifteen-year period beginning in 2023. Construction was assumed to progress according to the general schedule summarized in Table 3-1. See Appendix A for model outputs and detailed assumptions.

Construction of the project would result in the conversion of oak woodlands, riparian woodlands, grasslands, and wetlands. Removal of this vegetation would result in a one-time change in carbon stock. The resulting carbon dioxide (CO<sub>2</sub>) loss was quantified using CalEEMod for the acreages shown in Table 3.3-5 in Section 3.3., "Biological Resources," of the EIR, which accounts for permanent acreage losses of riparian woodlands, grasslands, and wetlands. The U.S. Department of Agriculture Forest Service's i-Tree Planting Calculator (i-Tree), version 2.1.2, was used to estimate the carbon storage lost by each tree removed.

#### 4.1.2 Operation

Operational mobile, area, energy, water, solid waste, and wastewater emissions were also estimated using CalEEMod, version 2020.4.0. Modeling inputs included land use types, sizes, and other project details and assumptions included the EIR, including updated input from the project applicant. Project-specific trip rates and VMT were obtained from Fehr & Peers, which were used to estimate mobile-source emissions. Water and wastewater emissions were modeled using project-specific water use factors by land use type in the Water Supply Assessment (WSA) included in Appendix K of the EIR. Electricity emissions factors were adjusted to account for an increase in carbon-free electricity pursuant to RPS anticipated for future modeled years (2030, 2040, and 2045; see discussion below). Model defaults for all other assumptions were used for operation emission modeling. See Appendix A for model outputs and detailed assumptions.

Oak woodlands are protected by policies in the El Dorado County General Plan and County Code of Ordinance which include various replanting requirements if a project results in the permanent removal of oak trees. The resulting CO<sub>2</sub> sequestered as a result of tree replanting was quantified using i-Tree for the required replacement amounts discussed in the Oak Resources Technical Report, included in Appendix F of the EIR. The oak technical report addresses impacts on oak woodlands and individual oak trees and provides mitigation for those impacts. Accordingly, the project is required to mitigate all native oak tree impacts at a 1:1 inch ratio and all heritage oak trees at a 3:1 inch ratio. Each replacement tree is defined as a 1-gallon sapling or three locally collected acorns and is

assumed to sequester over a 30-year life period. The total amount of CO<sub>2</sub> sequestered as a result of the tree planting was divided over a 30-year life span and the annual CO<sub>2</sub> emissions sequestered was subtracted from the project's annual GHG emissions.

## 4.2 RESULTS

### 4.2.1 Construction Emissions

Construction emissions were modeled for two scenarios: unmitigated and mitigated. The mitigated scenario includes reductions from mitigation measures. The mitigated scenario includes the following assumption:

- ▶ **Mitigation Measure AQ-2c. Tier 4 Final Construction Equipment.** Mitigated construction modeling assumed the use of advanced off-road engines (Tier 4 Final) and newer onsite on-road trucks during construction. Application of this measure assumed a 1.8 percent reduction in GHGs emitted during construction years 6–15 to account for cleaner diesel engines.

Estimated unmitigated and mitigated construction emissions are summarized in Table 4-1.

**Table 4-1 Construction-Related Greenhouse Gas Emissions**

Construction Year	Unmitigated MTCO <sub>2</sub> e	Mitigated MTCO <sub>2</sub> e <sup>a</sup>
Year 1	280	280
Year 2	1,014	1014
Year 3	402	402
Year 4	679	679
Year 5	397	397
Year 6	355	348
Year 7	691	678
Year 8	728	715
Year 9	391	383
Year 10	396	389
Year 11 <sup>b</sup>	-	-
Year 12	371	364
Year 13	370	363
Year 14	834	818
Year 15	778	763
Total construction emissions	7,685	7,594
One-time sequestration loss	(+) 1,898	(+) 1,898
Total construction emissions with one-time sequestration loss	9,583	9,493

Notes: MTCO<sub>2</sub>e = metric tons of carbon dioxide equivalent.

<sup>a</sup> Assumes use of Tier 4 Final construction equipment used during construction years 6-15 per Mitigation Measure AQ-2c.

<sup>b</sup> No construction activities are assumed in year 11 (see Table 3-1).

Source: CalEEMod version 2020.4.0, RCEM version 9.0, and USDA i-Tree version 2.1.2 (based on modeling conducted by Ascent Environmental in 2021).

## 4.2.2 Operational Emissions

Operational emissions were modeled for four scenarios: an unmitigated scenario, a partially mitigated scenario that accounts for reductions from recent legislative requirements and quantified CEDHSP policies, and two fully mitigated scenarios; one that accounts for reductions from the partially mitigated scenario in addition to mitigation measures proposed in the EIR assuming no natural gas consumption, and another that accounts for reductions from the partially mitigated scenario in addition to mitigation measures proposed in the EIR assuming there would be natural gas consumption. GHG emissions were modeled for three analysis years. 2030 and 2045 were modeled to align with CARB milestone years for GHG reduction planning efforts at the state level. 2040 was modeled because that is the assumed the first operational year at full buildout. The scenarios are described below. Emissions were quantified using CalEEMod and off-model calculations in Microsoft Excel. See Appendix A for model outputs and detailed assumptions.

The unmitigated scenario presents GHG emissions estimates from project buildout with legislative requirements that are default in CalEEMod at the time of analysis. The analysis does not take into account any CEDHSP policies or mitigation measures.

The partially mitigated scenarios present GHG emissions from project buildout with legislative requirements and CEDHSP policies applied. The EIR mitigation measures were not accounted for in this scenario. The legislative adjustments and CEDHSP policies applied to this scenario are as follows:

- ▶ **RPS.** Mitigated operational modeling adjusted the electric utility provider emissions factors to account for the increase in carbon-free electricity pursuant to RPS. For the three modeling years, the electrical grid emission factor was adjusted to assume 60 percent carbon-free in 2030, 86.7 percent carbon-free in 2040, and 100 percent carbon-free in 2045. See Appendix A for calculations.
- ▶ **Policy 8.16. Energy Efficient Appliances.** Mitigated operational modeling assumed energy-efficient appliances (i.e., fans, dishwashers, refrigerators, and washing machines) would be installed in all residential land use types.
- ▶ **Policy 8.36. Residential Indoor 20 Percent Reduction in Water Use.** Mitigated operational modeling assumed a 20 percent reduction in indoor residential water use. Water consumption based on modeling outputs was adjusted using project-specific WSA factors for individual land use types.
- ▶ **Policy 8.40. Serrano Westside Planning Area Outdoor Recycled Water.** Mitigated operational modeling assumed outdoor water consumption in Serrano Westside Planning Area associated with residential and nonresidential land uses (i.e., commercial and city and neighborhood parks) would come from recycled water sources, accounting for 83 percent of total outdoor water consumption.
- ▶ **Policy 8.50. Natural Gas Hearths Only.** Mitigated operational modeling removed all natural gas hearths. It was assumed that if electric fireplaces were installed, the electricity demand associated with the fireplaces would be generated by the onsite renewable energy generation systems.
- ▶ **Policy 8.51. Ban on Wood-Burning Fireplaces.** Mitigated operational modeling removed all conventional and non-conventional wood-burning fireplaces.

The fully mitigated scenario presents emissions with legislative requirements, CEDHSP policies, and EIR mitigation measures. The legislative adjustments and CEDHSP policies applied to this scenario are as follows:

- ▶ **RPS.** The same assumptions described in the scenario above were applied.
- ▶ **Policy 8.16. Energy Efficient Appliances.** The same assumptions described in the scenario above were applied.
- ▶ **Policy 8.36. Residential Indoor 10 Percent Reduction in Water Use.** The same assumptions described in the scenario above were applied.
- ▶ **Policy 8.40. Serrano Westside Planning Area Outdoor Recycled Water.** The same assumptions described in the scenario above were applied.
- ▶ **Policy 8.50. Natural Gas Hearths.** The same assumptions described in the scenario above were applied.
- ▶ **Policy 8.51. Ban on Wood-Burning Fireplaces.** Mitigated operational modeling removed all conventional and non-conventional wood-burning fireplaces.

In addition, the mitigation measures applied to this scenario are as follows:

- ▶ **Mitigation Measure GHG-2.** Revises Policy 8.22, 8.37, and Policy 8.4, in addition to other policies.
  - **Policy 8.22. Residential Rooftop Solar.** Mitigated operational modeling assumed all residential units would install 4 kilowatts [kW] of rooftop solar. Kilowatt-hour (kWh) of generation was estimated based on a 4-kW system in El Dorado County using the National Renewable Energy Laboratory's PVWatts Model,
  - **Policy 8.37. Residential Outdoor 30 Percent Reduction in Water Use.** Mitigated operational modeling assumed a 30 percent reduction in indoor residential water use. Water consumption was based on project-specific WSA factors for individual land use types.
  - **Policy 8.4. Level 2 Plug in Electric Vehicle (PEV) Charging Stations.** Mitigated operational modeling assumed amount of Level 2 PEV chargers required for Civic-Limited Commercial, Village Park, and High Density Residential designations was consistent with guidance in the draft 2022 California Green Building Standards Code (CALGreen) (BSC 2021). GHG emissions reductions associated with installing PEV chargers was calculated using Sacramento Air Quality Management District's Draft Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity (GHG Handbook) (SMAQMD 2021). Modeling assumed an increase in electricity emissions as a result of additional energy demand from operating electric vehicle chargers, which was also calculated based on guidance in the GHG Handbook.

**Mitigation Measure GHG-4. Electric Heating and All-Electric Buildings.** This measure forbids the project from including natural gas appliances and natural gas infrastructure unless certain conditions are met. If implemented as-is, the all project buildings would be constructed to be all-electric and require no natural gas infrastructure or use. However, emissions were modeled in the event that all-electric buildings are deemed infeasible and natural gas infrastructure would be installed and natural gas is consumed in project buildings. For the all-electric and no natural gas scenario, anticipated natural gas consumption modeled in the unmitigated scenario (using CalEEMod defaults assumptions and reported in thousand British thermal units [kBtu]), this amount of kBtu was converted to the equivalent electricity consumption reported in kWh. It was assumed that natural gas demand would be replaced with an increase in electricity demand. Electric building appliances (i.e., cooktops, space and water heating, clothes dryer) that would replace natural gas ones would be more energy efficient and would result in less overall energy demand, and therefore reduced emissions. For the scenario with natural gas consumption, CalEEMod default electricity and natural gas consumption was used. See detailed modeling calculations in Appendix A.

Table 4-2 below presents the annual GHG emission estimates for each of these four scenarios for 2030, 2040, and 245.

**Table 4-2 2030, 2040, and 2045 Operational Greenhouse Gas Emissions Associated with Unmitigated, Partially Mitigated With CEDHSP Policies, and Fully Mitigated With EIR Measures (with natural gas and without natural gas) Scenarios (metric tons per year)**

Scenario	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Sequestration CO <sub>2</sub>	Rooftop Solar	MTCO <sub>2e</sub>
<b>2030</b>						
Unmitigated	3,005	4.53	0.17	-	-	3,169
Partially Mitigated <sup>a</sup>	2,637	3.88	0.13	-277	-	2,496
Fully mitigated with Natural Gas <sup>b</sup>	2,637	3.88	0.13	-277	-104	2,392
Fully mitigated without Natural Gas <sup>b</sup>	2,298	3.87	0.12	-277	-104	2,050
<b>2040</b>						
Unmitigated	6,173	12.77	0.34	-	-	6,594
Partially Mitigated <sup>a</sup>	5,423	11.44	0.26	-277	-	5,511
Fully mitigated with Natural Gas <sup>b</sup>	5,422	11.40	0.26	-277	-73	5,436
Fully mitigated without Natural Gas <sup>b</sup>	4,590	11.38	0.25	-277	-73	4,599
<b>2045</b>						
Unmitigated	5,995	12.75	0.33	-	-	6,413
Partially Mitigated <sup>a</sup>	5,248	11.42	0.26	-277	-	5,333
Fully mitigated with Natural Gas <sup>b</sup>	5,248	11.38	0.26	-277	0	5,331
Fully mitigated without Natural Gas <sup>b</sup>	4,360	11.36	0.24	-277	0	4,439

Notes: CEDEHSP = Central El Dorado Hills Specific Plan; CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; MTCO<sub>2e</sub> = metric tons of carbon dioxide equivalent.

<sup>a</sup> Emissions account for reductions achieved by RPS, CEDHSP policies 8.16, 8.36, 8.40, 8.50, and 8.51

<sup>b</sup> Emissions account for reductions achieved by RPS, CEDHSP policies 8.16, 8.22, 8.36, 8.40, 8.50, and 8.51, along with EIR Mitigation Measures GHG-2 and GHG-4.

Source: CalEEMod version 2020.4.0 and USDA i-Tree version 2.1.2 (based on modeling conducted by Ascent Environmental in 2023).

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# Appendix A

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Air Quality and Greenhouse Gas  
Modeling Results



# Construction Modeling

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CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 1 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	1.13	7,200.00	11

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

Woodstoves - Construction run only

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	4860	0
tblAreaCoating	Area_Residential_Interior	14580	0
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	4.00	17.00
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	2.00	9.00
tblConstructionPhase	PhaseEndDate	12/11/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	1/1/2023
tblConstructionPhase	PhaseEndDate	11/27/2023	12/6/2023
tblConstructionPhase	PhaseEndDate	1/31/2023	1/12/2023
tblConstructionPhase	PhaseStartDate	11/28/2023	12/7/2023
tblConstructionPhase	PhaseStartDate	2/1/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/2/2023
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	191.61	0.00

## CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	2.20	0.00
tblFireplaces	NumberWood	1.40	0.00
tblGrading	AcresOfGrading	17.00	4.00
tblGrading	AcresOfGrading	8.44	1.88
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	1.30	1.13
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.75	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	260,616.10	0.00
tblWater	OutdoorWaterUseRate	164,301.46	0.00
tblWoodstoves	NumberCatalytic	0.20	0.00
tblWoodstoves	NumberNoncatalytic	0.20	0.00

**2.0 Emissions Summary**





CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/1/2023	5	0	
2	Site Preparation	Site Preparation	1/2/2023	1/12/2023	5	9	
3	Grading	Grading	1/13/2023	2/6/2023	5	17	

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/7/2023	11/13/2023	5	200
5	Paving	Paving	11/14/2023	12/6/2023	5	17
6	Architectural Coating	Architectural Coating	12/7/2023	12/29/2023	5	17

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 14,580; Residential Outdoor: 4,860; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37







CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0247	0.0000	0.0247	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-003	0.0559	0.0299	8.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	6.8014	6.8014	2.2000e-003	0.0000	6.8564
<b>Total</b>	<b>5.1000e-003</b>	<b>0.0559</b>	<b>0.0299</b>	<b>8.0000e-005</b>	<b>0.0247</b>	<b>2.2800e-003</b>	<b>0.0270</b>	<b>0.0131</b>	<b>2.1000e-003</b>	<b>0.0152</b>	<b>0.0000</b>	<b>6.8014</b>	<b>6.8014</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>6.8564</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	1.0000e-003	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2295	0.2295	1.0000e-005	1.0000e-005	0.2319
<b>Total</b>	<b>1.3000e-004</b>	<b>9.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2295</b>	<b>0.2295</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2319</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0247	0.0000	0.0247	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-003	0.0559	0.0299	8.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	6.8014	6.8014	2.2000e-003	0.0000	6.8564
<b>Total</b>	<b>5.1000e-003</b>	<b>0.0559</b>	<b>0.0299</b>	<b>8.0000e-005</b>	<b>0.0247</b>	<b>2.2800e-003</b>	<b>0.0270</b>	<b>0.0131</b>	<b>2.1000e-003</b>	<b>0.0152</b>	<b>0.0000</b>	<b>6.8014</b>	<b>6.8014</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>6.8564</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	1.0000e-003	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2295	0.2295	1.0000e-005	1.0000e-005	0.2319
<b>Total</b>	<b>1.3000e-004</b>	<b>9.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2295</b>	<b>0.2295</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2319</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0533	0.0000	0.0533	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1230	0.0740	1.8000e-004		5.1400e-003	5.1400e-003		4.7300e-003	4.7300e-003	0.0000	15.3883	15.3883	4.9800e-003	0.0000	15.5128
<b>Total</b>	<b>0.0113</b>	<b>0.1230</b>	<b>0.0740</b>	<b>1.8000e-004</b>	<b>0.0533</b>	<b>5.1400e-003</b>	<b>0.0585</b>	<b>0.0284</b>	<b>4.7300e-003</b>	<b>0.0331</b>	<b>0.0000</b>	<b>15.3883</b>	<b>15.3883</b>	<b>4.9800e-003</b>	<b>0.0000</b>	<b>15.5128</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.0000e-004	2.3700e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5419	0.5419	2.0000e-005	2.0000e-005	0.5476
<b>Total</b>	<b>3.0000e-004</b>	<b>2.0000e-004</b>	<b>2.3700e-003</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5419</b>	<b>0.5419</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5476</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0533	0.0000	0.0533	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1230	0.0740	1.8000e-004		5.1400e-003	5.1400e-003		4.7300e-003	4.7300e-003	0.0000	15.3883	15.3883	4.9800e-003	0.0000	15.5127
<b>Total</b>	<b>0.0113</b>	<b>0.1230</b>	<b>0.0740</b>	<b>1.8000e-004</b>	<b>0.0533</b>	<b>5.1400e-003</b>	<b>0.0585</b>	<b>0.0284</b>	<b>4.7300e-003</b>	<b>0.0331</b>	<b>0.0000</b>	<b>15.3883</b>	<b>15.3883</b>	<b>4.9800e-003</b>	<b>0.0000</b>	<b>15.5127</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.0000e-004	2.3700e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5419	0.5419	2.0000e-005	2.0000e-005	0.5476
<b>Total</b>	<b>3.0000e-004</b>	<b>2.0000e-004</b>	<b>2.3700e-003</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5419</b>	<b>0.5419</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5476</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1523	1.1710	1.2611	2.2100e-003		0.0515	0.0515		0.0497	0.0497	0.0000	181.5991	181.5991	0.0308	0.0000	182.3701
<b>Total</b>	<b>0.1523</b>	<b>1.1710</b>	<b>1.2611</b>	<b>2.2100e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0497</b>	<b>0.0497</b>	<b>0.0000</b>	<b>181.5991</b>	<b>181.5991</b>	<b>0.0308</b>	<b>0.0000</b>	<b>182.3701</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.7800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6376	0.6376	2.0000e-005	2.0000e-005	0.6442
<b>Total</b>	<b>3.6000e-004</b>	<b>2.4000e-004</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6376</b>	<b>0.6376</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6442</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1523	1.1710	1.2611	2.2100e-003		0.0515	0.0515		0.0497	0.0497	0.0000	181.5989	181.5989	0.0308	0.0000	182.3698
<b>Total</b>	<b>0.1523</b>	<b>1.1710</b>	<b>1.2611</b>	<b>2.2100e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0497</b>	<b>0.0497</b>	<b>0.0000</b>	<b>181.5989</b>	<b>181.5989</b>	<b>0.0308</b>	<b>0.0000</b>	<b>182.3698</b>



CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.7800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6376	0.6376	2.0000e-005	2.0000e-005	0.6442
<b>Total</b>	<b>3.6000e-004</b>	<b>2.4000e-004</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6376</b>	<b>0.6376</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6442</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4800e-003	0.0530	0.0748	1.2000e-004		2.6200e-003	2.6200e-003		2.4200e-003	2.4200e-003	0.0000	10.0066	10.0066	3.1700e-003	0.0000	10.0859
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.4800e-003</b>	<b>0.0530</b>	<b>0.0748</b>	<b>1.2000e-004</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>10.0066</b>	<b>10.0066</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>10.0859</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	3.0800e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.7045	0.7045	3.0000e-005	2.0000e-005	0.7118
<b>Total</b>	<b>3.9000e-004</b>	<b>2.6000e-004</b>	<b>3.0800e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7045</b>	<b>0.7045</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7118</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4800e-003	0.0530	0.0748	1.2000e-004		2.6200e-003	2.6200e-003		2.4200e-003	2.4200e-003	0.0000	10.0066	10.0066	3.1700e-003	0.0000	10.0859
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.4800e-003</b>	<b>0.0530</b>	<b>0.0748</b>	<b>1.2000e-004</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>10.0066</b>	<b>10.0066</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>10.0859</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	3.0800e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.7045	0.7045	3.0000e-005	2.0000e-005	0.7118
<b>Total</b>	<b>3.9000e-004</b>	<b>2.6000e-004</b>	<b>3.0800e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7045</b>	<b>0.7045</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7118</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0111	0.0154	3.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	2.1703	2.1703	1.3000e-004	0.0000	2.1735
<b>Total</b>	<b>0.1143</b>	<b>0.0111</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.1735</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0111	0.0154	3.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	2.1703	2.1703	1.3000e-004	0.0000	2.1735
<b>Total</b>	<b>0.1143</b>	<b>0.0111</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.1735</b>



CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987







CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

**Unmitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
0	0.0000	0.0000	0.0000	0.0000
Land Use				
tons				
MT/yr				
Single Family Housing	0	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

CEdHSF Construction Year 1 Unmitigated - El Dorado-Mountain County, Annual

**Mitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
0	0.0000	0.0000	0.0000	0.0000
Land Use				
tons				
MT/yr				
Single Family Housing	0	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 1 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	1.13	7,200.00	11

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

Woodstoves - Construction run only



CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	4860	0
tblAreaCoating	Area_Residential_Interior	14580	0
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	4.00	17.00
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	2.00	9.00
tblConstructionPhase	PhaseEndDate	12/11/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	1/1/2023
tblConstructionPhase	PhaseEndDate	11/27/2023	12/6/2023
tblConstructionPhase	PhaseEndDate	1/31/2023	1/12/2023
tblConstructionPhase	PhaseStartDate	11/28/2023	12/7/2023
tblConstructionPhase	PhaseStartDate	2/1/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/2/2023
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	191.61	0.00

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	2.20	0.00
tblFireplaces	NumberWood	1.40	0.00
tblGrading	AcresOfGrading	17.00	4.00
tblGrading	AcresOfGrading	8.44	1.88
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	1.30	1.13
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.75	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	260,616.10	0.00
tblWater	OutdoorWaterUseRate	164,301.46	0.00
tblWoodstoves	NumberCatalytic	0.20	0.00
tblWoodstoves	NumberNoncatalytic	0.20	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5942	0.5942	5.7000e-004	0.0000	0.6084
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.8300e-003</b>	<b>3.7900e-003</b>	<b>0.3289</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.6084</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5942	0.5942	5.7000e-004	0.0000	0.6084
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.8300e-003</b>	<b>3.7900e-003</b>	<b>0.3289</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.6084</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/1/2023	5	0	
2	Site Preparation	Site Preparation	1/2/2023	1/12/2023	5	9	
3	Grading	Grading	1/13/2023	2/6/2023	5	17	
4	Building Construction	Building Construction	2/7/2023	11/13/2023	5	200	
5	Paving	Paving	11/14/2023	12/6/2023	5	17	
6	Architectural Coating	Architectural Coating	12/7/2023	12/29/2023	5	17	

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 14,580; Residential Outdoor: 4,860; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4909	0.0000	5.4909	2.9204	0.0000	2.9204			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
<b>Total</b>	<b>1.1339</b>	<b>12.4250</b>	<b>6.6420</b>	<b>0.0172</b>	<b>5.4909</b>	<b>0.5074</b>	<b>5.9982</b>	<b>2.9204</b>	<b>0.4668</b>	<b>3.3872</b>		<b>1,666.0573</b>	<b>1,666.0573</b>	<b>0.5388</b>		<b>1,679.5282</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0319	0.0166	0.2428	6.0000e-004	0.0657	3.7000e-004	0.0661	0.0174	3.4000e-004	0.0178		60.4378	60.4378	1.8800e-003	1.6400e-003	60.9735
<b>Total</b>	<b>0.0319</b>	<b>0.0166</b>	<b>0.2428</b>	<b>6.0000e-004</b>	<b>0.0657</b>	<b>3.7000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.4000e-004</b>	<b>0.0178</b>		<b>60.4378</b>	<b>60.4378</b>	<b>1.8800e-003</b>	<b>1.6400e-003</b>	<b>60.9735</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4909	0.0000	5.4909	2.9204	0.0000	2.9204			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282
<b>Total</b>	<b>1.1339</b>	<b>12.4250</b>	<b>6.6420</b>	<b>0.0172</b>	<b>5.4909</b>	<b>0.5074</b>	<b>5.9982</b>	<b>2.9204</b>	<b>0.4668</b>	<b>3.3872</b>	<b>0.0000</b>	<b>1,666.0573</b>	<b>1,666.0573</b>	<b>0.5388</b>		<b>1,679.5282</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0319	0.0166	0.2428	6.0000e-004	0.0657	3.7000e-004	0.0661	0.0174	3.4000e-004	0.0178		60.4378	60.4378	1.8800e-003	1.6400e-003	60.9735
<b>Total</b>	<b>0.0319</b>	<b>0.0166</b>	<b>0.2428</b>	<b>6.0000e-004</b>	<b>0.0657</b>	<b>3.7000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.4000e-004</b>	<b>0.0178</b>		<b>60.4378</b>	<b>60.4378</b>	<b>1.8800e-003</b>	<b>1.6400e-003</b>	<b>60.9735</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2716	0.0000	6.2716	3.3372	0.0000	3.3372			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>6.2716</b>	<b>0.6044</b>	<b>6.8760</b>	<b>3.3372</b>	<b>0.5560</b>	<b>3.8932</b>		<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0208	0.3035	7.5000e-004	0.0822	4.6000e-004	0.0826	0.0218	4.2000e-004	0.0222		75.5472	75.5472	2.3400e-003	2.0500e-003	76.2169
<b>Total</b>	<b>0.0399</b>	<b>0.0208</b>	<b>0.3035</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>4.6000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.2000e-004</b>	<b>0.0222</b>		<b>75.5472</b>	<b>75.5472</b>	<b>2.3400e-003</b>	<b>2.0500e-003</b>	<b>76.2169</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2716	0.0000	6.2716	3.3372	0.0000	3.3372			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>6.2716</b>	<b>0.6044</b>	<b>6.8760</b>	<b>3.3372</b>	<b>0.5560</b>	<b>3.8932</b>	<b>0.0000</b>	<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0208	0.3035	7.5000e-004	0.0822	4.6000e-004	0.0826	0.0218	4.2000e-004	0.0222		75.5472	75.5472	2.3400e-003	2.0500e-003	76.2169
<b>Total</b>	<b>0.0399</b>	<b>0.0208</b>	<b>0.3035</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>4.6000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.2000e-004</b>	<b>0.0222</b>		<b>75.5472</b>	<b>75.5472</b>	<b>2.3400e-003</b>	<b>2.0500e-003</b>	<b>76.2169</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>		<b>2,001.7877</b>	<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9900e-003	2.0800e-003	0.0304	7.0000e-005	8.2100e-003	5.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.5547	7.5547	2.3000e-004	2.1000e-004	7.6217
<b>Total</b>	<b>3.9900e-003</b>	<b>2.0800e-003</b>	<b>0.0304</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>5.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.5547</b>	<b>7.5547</b>	<b>2.3000e-004</b>	<b>2.1000e-004</b>	<b>7.6217</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>	<b>0.0000</b>	<b>2,001.7877</b>	<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9900e-003	2.0800e-003	0.0304	7.0000e-005	8.2100e-003	5.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.5547	7.5547	2.3000e-004	2.1000e-004	7.6217
<b>Total</b>	<b>3.9900e-003</b>	<b>2.0800e-003</b>	<b>0.0304</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>5.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.5547</b>	<b>7.5547</b>	<b>2.3000e-004</b>	<b>2.1000e-004</b>	<b>7.6217</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6446</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>		<b>1,297.6880</b>	<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0270	0.3945	9.7000e-004	0.1068	6.0000e-004	0.1074	0.0283	5.5000e-004	0.0289		98.2114	98.2114	3.0500e-003	2.6700e-003	99.0820
<b>Total</b>	<b>0.0518</b>	<b>0.0270</b>	<b>0.3945</b>	<b>9.7000e-004</b>	<b>0.1068</b>	<b>6.0000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.5000e-004</b>	<b>0.0289</b>		<b>98.2114</b>	<b>98.2114</b>	<b>3.0500e-003</b>	<b>2.6700e-003</b>	<b>99.0820</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6446</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>	<b>0.0000</b>	<b>1,297.6880</b>	<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0270	0.3945	9.7000e-004	0.1068	6.0000e-004	0.1074	0.0283	5.5000e-004	0.0289		98.2114	98.2114	3.0500e-003	2.6700e-003	99.0820
<b>Total</b>	<b>0.0518</b>	<b>0.0270</b>	<b>0.3945</b>	<b>9.7000e-004</b>	<b>0.1068</b>	<b>6.0000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.5000e-004</b>	<b>0.0289</b>		<b>98.2114</b>	<b>98.2114</b>	<b>3.0500e-003</b>	<b>2.6700e-003</b>	<b>99.0820</b>



CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.2507					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>13.4423</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.2507					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>13.4423</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5942	0.5942	5.7000e-004	0.0000	0.6084
Unmitigated	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5942	0.5942	5.7000e-004	0.0000	0.6084

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		0.5942	0.5942	5.7000e-004		0.6084
<b>Total</b>	<b>9.8300e-003</b>	<b>3.7900e-003</b>	<b>0.3289</b>	<b>2.0000e-005</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.6084</b>

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		0.5942	0.5942	5.7000e-004		0.6084
<b>Total</b>	<b>9.8300e-003</b>	<b>3.7900e-003</b>	<b>0.3289</b>	<b>2.0000e-005</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.6084</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 1 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 2 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - . Construction run only

Woodstoves - . Construction run only

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only

Area Coating - . Construction run only

Landscape Equipment - . Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	21870	0
tblAreaCoating	Area_Residential_Interior	65610	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	3/21/2025	12/27/2024
tblConstructionPhase	PhaseEndDate	1/24/2025	11/11/2024
tblConstructionPhase	PhaseEndDate	1/26/2024	12/31/2023
tblConstructionPhase	PhaseEndDate	3/8/2024	2/5/2024
tblConstructionPhase	PhaseEndDate	2/21/2025	12/4/2024
tblConstructionPhase	PhaseEndDate	2/9/2024	1/11/2024
tblConstructionPhase	PhaseStartDate	2/22/2025	12/5/2024
tblConstructionPhase	PhaseStartDate	3/9/2024	2/6/2024
tblConstructionPhase	PhaseStartDate	2/10/2024	1/12/2024
tblConstructionPhase	PhaseStartDate	1/25/2025	11/12/2024
tblConstructionPhase	PhaseStartDate	1/27/2024	1/1/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	17.00	20.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	12/31/2023	5	0	
2	Site Preparation	Site Preparation	1/1/2024	1/11/2024	5	9	
3	Grading	Grading	1/12/2024	2/5/2024	5	17	

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2024	11/11/2024	5	200
5	Paving	Paving	11/12/2024	12/4/2024	5	17
6	Architectural Coating	Architectural Coating	12/5/2024	12/27/2024	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

**Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Welders	1	8.00	46	0.45
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.1223	0.0825	1.7000e-004		5.5300e-003	5.5300e-003		5.0900e-003	5.0900e-003	0.0000	15.0557	15.0557	4.8700e-003	0.0000	15.1774
<b>Total</b>	<b>0.0120</b>	<b>0.1223</b>	<b>0.0825</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>5.5300e-003</b>	<b>0.0948</b>	<b>0.0456</b>	<b>5.0900e-003</b>	<b>0.0506</b>	<b>0.0000</b>	<b>15.0557</b>	<b>15.0557</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1774</b>



CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.7000e-004	2.0900e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5003	0.5003	2.0000e-005	2.0000e-005	0.5053
<b>Total</b>	<b>2.7000e-004</b>	<b>1.7000e-004</b>	<b>2.0900e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5003</b>	<b>0.5003</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5053</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.1223	0.0825	1.7000e-004		5.5300e-003	5.5300e-003		5.0900e-003	5.0900e-003	0.0000	15.0557	15.0557	4.8700e-003	0.0000	15.1774
<b>Total</b>	<b>0.0120</b>	<b>0.1223</b>	<b>0.0825</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>5.5300e-003</b>	<b>0.0948</b>	<b>0.0456</b>	<b>5.0900e-003</b>	<b>0.0506</b>	<b>0.0000</b>	<b>15.0557</b>	<b>15.0557</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1774</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.7000e-004	2.0900e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5003	0.5003	2.0000e-005	2.0000e-005	0.5053
<b>Total</b>	<b>2.7000e-004</b>	<b>1.7000e-004</b>	<b>2.0900e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5003</b>	<b>0.5003</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5053</b>

**3.4 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0618	0.0000	0.0618	0.0293	0.0000	0.0293	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0141	0.1448	0.1255	2.5000e-004		6.1600e-003	6.1600e-003		5.6600e-003	5.6600e-003	0.0000	22.1543	22.1543	7.1700e-003	0.0000	22.3335
<b>Total</b>	<b>0.0141</b>	<b>0.1448</b>	<b>0.1255</b>	<b>2.5000e-004</b>	<b>0.0618</b>	<b>6.1600e-003</b>	<b>0.0680</b>	<b>0.0293</b>	<b>5.6600e-003</b>	<b>0.0349</b>	<b>0.0000</b>	<b>22.1543</b>	<b>22.1543</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>22.3335</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.2900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7875	0.7875	3.0000e-005	2.0000e-005	0.7954
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7875</b>	<b>0.7875</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7954</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0618	0.0000	0.0618	0.0293	0.0000	0.0293	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0141	0.1448	0.1255	2.5000e-004		6.1600e-003	6.1600e-003		5.6600e-003	5.6600e-003	0.0000	22.1543	22.1543	7.1700e-003	0.0000	22.3334
<b>Total</b>	<b>0.0141</b>	<b>0.1448</b>	<b>0.1255</b>	<b>2.5000e-004</b>	<b>0.0618</b>	<b>6.1600e-003</b>	<b>0.0680</b>	<b>0.0293</b>	<b>5.6600e-003</b>	<b>0.0349</b>	<b>0.0000</b>	<b>22.1543</b>	<b>22.1543</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>22.3334</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.2900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7875	0.7875	3.0000e-005	2.0000e-005	0.7954
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7875</b>	<b>0.7875</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7954</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8491	231.8491	0.0548	0.0000	233.2198
<b>Total</b>	<b>0.1472</b>	<b>1.3444</b>	<b>1.6167</b>	<b>2.7000e-003</b>		<b>0.0613</b>	<b>0.0613</b>		<b>0.0577</b>	<b>0.0577</b>	<b>0.0000</b>	<b>231.8491</b>	<b>231.8491</b>	<b>0.0548</b>	<b>0.0000</b>	<b>233.2198</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	0.0125	2.8100e-003	4.0000e-005	1.3000e-003	7.0000e-005	1.3700e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	4.2426	4.2426	1.0000e-005	6.3000e-004	4.4316
Worker	2.0100e-003	1.2700e-003	0.0155	4.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7061	3.7061	1.3000e-004	1.1000e-004	3.7429
<b>Total</b>	<b>2.2900e-003</b>	<b>0.0138</b>	<b>0.0183</b>	<b>8.0000e-005</b>	<b>6.0200e-003</b>	<b>1.0000e-004</b>	<b>6.1200e-003</b>	<b>1.6400e-003</b>	<b>8.0000e-005</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>7.9487</b>	<b>7.9487</b>	<b>1.4000e-004</b>	<b>7.4000e-004</b>	<b>8.1745</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8488	231.8488	0.0548	0.0000	233.2195
<b>Total</b>	<b>0.1472</b>	<b>1.3444</b>	<b>1.6167</b>	<b>2.7000e-003</b>		<b>0.0613</b>	<b>0.0613</b>		<b>0.0577</b>	<b>0.0577</b>	<b>0.0000</b>	<b>231.8488</b>	<b>231.8488</b>	<b>0.0548</b>	<b>0.0000</b>	<b>233.2195</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	0.0125	2.8100e-003	4.0000e-005	1.3000e-003	7.0000e-005	1.3700e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	4.2426	4.2426	1.0000e-005	6.3000e-004	4.4316
Worker	2.0100e-003	1.2700e-003	0.0155	4.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7061	3.7061	1.3000e-004	1.1000e-004	3.7429
<b>Total</b>	<b>2.2900e-003</b>	<b>0.0138</b>	<b>0.0183</b>	<b>8.0000e-005</b>	<b>6.0200e-003</b>	<b>1.0000e-004</b>	<b>6.1200e-003</b>	<b>1.6400e-003</b>	<b>8.0000e-005</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>7.9487</b>	<b>7.9487</b>	<b>1.4000e-004</b>	<b>7.4000e-004</b>	<b>8.1745</b>

**3.6 Paving - 2024**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4000e-003	0.0810	0.1243	1.9000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	17.0226	17.0226	5.5100e-003	0.0000	17.1602
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4000e-003</b>	<b>0.0810</b>	<b>0.1243</b>	<b>1.9000e-004</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>17.0226</b>	<b>17.0226</b>	<b>5.5100e-003</b>	<b>0.0000</b>	<b>17.1602</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.2900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7875	0.7875	3.0000e-005	2.0000e-005	0.7954
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7875</b>	<b>0.7875</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7954</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4000e-003	0.0810	0.1243	1.9000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	17.0225	17.0225	5.5100e-003	0.0000	17.1602
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4000e-003</b>	<b>0.0810</b>	<b>0.1243</b>	<b>1.9000e-004</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>17.0225</b>	<b>17.0225</b>	<b>5.5100e-003</b>	<b>0.0000</b>	<b>17.1602</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.2900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7875	0.7875	3.0000e-005	2.0000e-005	0.7954
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7875</b>	<b>0.7875</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7954</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5068					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0104	0.0154	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1733
<b>Total</b>	<b>0.5084</b>	<b>0.0104</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1733</b>



CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0525	0.0525	0.0000	0.0000	0.0530
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0525</b>	<b>0.0525</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0530</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5068					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0104	0.0154	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1733
<b>Total</b>	<b>0.5084</b>	<b>0.0104</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1733</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0525	0.0525	0.0000	0.0000	0.0530
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0525</b>	<b>0.0525</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0530</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



CEDHSF Construction Year 2 Unmitigated - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**8.2 Waste by Land Use**

**Unmitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000

**Mitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 2 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - . Construction run only

Woodstoves - . Construction run only

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only

Area Coating - . Construction run only

Landscape Equipment - . Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	21870	0
tblAreaCoating	Area_Residential_Interior	65610	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	3/21/2025	12/27/2024
tblConstructionPhase	PhaseEndDate	1/24/2025	11/11/2024
tblConstructionPhase	PhaseEndDate	1/26/2024	12/31/2023
tblConstructionPhase	PhaseEndDate	3/8/2024	2/5/2024
tblConstructionPhase	PhaseEndDate	2/21/2025	12/4/2024
tblConstructionPhase	PhaseEndDate	2/9/2024	1/11/2024
tblConstructionPhase	PhaseStartDate	2/22/2025	12/5/2024
tblConstructionPhase	PhaseStartDate	3/9/2024	2/6/2024
tblConstructionPhase	PhaseStartDate	2/10/2024	1/12/2024
tblConstructionPhase	PhaseStartDate	1/25/2025	11/12/2024
tblConstructionPhase	PhaseStartDate	1/27/2024	1/1/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	17.00	20.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	2.6739	2.6739	2.5500e-003	0.0000	2.7376
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0443</b>	<b>0.0171</b>	<b>1.4798</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>2.6739</b>	<b>2.6739</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>2.7376</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	2.6739	2.6739	2.5500e-003	0.0000	2.7376
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0443</b>	<b>0.0171</b>	<b>1.4798</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>2.6739</b>	<b>2.6739</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>2.7376</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	12/31/2023	5	0	
2	Site Preparation	Site Preparation	1/1/2024	1/11/2024	5	9	
3	Grading	Grading	1/12/2024	2/5/2024	5	17	
4	Building Construction	Building Construction	2/6/2024	11/11/2024	5	200	
5	Paving	Paving	11/12/2024	12/4/2024	5	17	
6	Architectural Coating	Architectural Coating	12/5/2024	12/27/2024	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

**Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.2294</b>	<b>21.0631</b>	<b>10.1215</b>	<b>1.1310</b>	<b>11.2525</b>		<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0673	0.0334	0.5050	1.3000e-003	0.1479	7.8000e-004	0.1487	0.0392	7.2000e-004	0.0399		131.7153	131.7153	3.8200e-003	3.4300e-003	132.8331
<b>Total</b>	<b>0.0673</b>	<b>0.0334</b>	<b>0.5050</b>	<b>1.3000e-003</b>	<b>0.1479</b>	<b>7.8000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.2000e-004</b>	<b>0.0399</b>		<b>131.7153</b>	<b>131.7153</b>	<b>3.8200e-003</b>	<b>3.4300e-003</b>	<b>132.8331</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.2294</b>	<b>21.0631</b>	<b>10.1215</b>	<b>1.1310</b>	<b>11.2525</b>	<b>0.0000</b>	<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0673	0.0334	0.5050	1.3000e-003	0.1479	7.8000e-004	0.1487	0.0392	7.2000e-004	0.0399		131.7153	131.7153	3.8200e-003	3.4300e-003	132.8331
<b>Total</b>	<b>0.0673</b>	<b>0.0334</b>	<b>0.5050</b>	<b>1.3000e-003</b>	<b>0.1479</b>	<b>7.8000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.2000e-004</b>	<b>0.0399</b>		<b>131.7153</b>	<b>131.7153</b>	<b>3.8200e-003</b>	<b>3.4300e-003</b>	<b>132.8331</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2697	0.0000	7.2697	3.4449	0.0000	3.4449			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>1.6617</b>	<b>17.0310</b>	<b>14.7594</b>	<b>0.0297</b>	<b>7.2697</b>	<b>0.7244</b>	<b>7.9942</b>	<b>3.4449</b>	<b>0.6665</b>	<b>4.1114</b>		<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2697	0.0000	7.2697	3.4449	0.0000	3.4449			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>1.6617</b>	<b>17.0310</b>	<b>14.7594</b>	<b>0.0297</b>	<b>7.2697</b>	<b>0.7244</b>	<b>7.9942</b>	<b>3.4449</b>	<b>0.6665</b>	<b>4.1114</b>	<b>0.0000</b>	<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-003	0.1203	0.0276	4.4000e-004	0.0135	6.6000e-004	0.0142	3.8800e-003	6.3000e-004	4.5200e-003		46.7532	46.7532	1.5000e-004	6.9700e-003	48.8342
Worker	0.0224	0.0111	0.1683	4.3000e-004	0.0493	2.6000e-004	0.0496	0.0131	2.4000e-004	0.0133		43.9051	43.9051	1.2700e-003	1.1400e-003	44.2777
<b>Total</b>	<b>0.0252</b>	<b>0.1315</b>	<b>0.1960</b>	<b>8.7000e-004</b>	<b>0.0628</b>	<b>9.2000e-004</b>	<b>0.0637</b>	<b>0.0170</b>	<b>8.7000e-004</b>	<b>0.0178</b>		<b>90.6583</b>	<b>90.6583</b>	<b>1.4200e-003</b>	<b>8.1100e-003</b>	<b>93.1119</b>



CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-003	0.1203	0.0276	4.4000e-004	0.0135	6.6000e-004	0.0142	3.8800e-003	6.3000e-004	4.5200e-003		46.7532	46.7532	1.5000e-004	6.9700e-003	48.8342
Worker	0.0224	0.0111	0.1683	4.3000e-004	0.0493	2.6000e-004	0.0496	0.0131	2.4000e-004	0.0133		43.9051	43.9051	1.2700e-003	1.1400e-003	44.2777
<b>Total</b>	<b>0.0252</b>	<b>0.1315</b>	<b>0.1960</b>	<b>8.7000e-004</b>	<b>0.0628</b>	<b>9.2000e-004</b>	<b>0.0637</b>	<b>0.0170</b>	<b>8.7000e-004</b>	<b>0.0178</b>		<b>90.6583</b>	<b>90.6583</b>	<b>1.4200e-003</b>	<b>8.1100e-003</b>	<b>93.1119</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9882</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9882</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.6279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>59.8087</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7400e-003	1.8600e-003	0.0281	7.0000e-005	8.2100e-003	4.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.3175	7.3175	2.1000e-004	1.9000e-004	7.3796
<b>Total</b>	<b>3.7400e-003</b>	<b>1.8600e-003</b>	<b>0.0281</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>4.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.3175</b>	<b>7.3175</b>	<b>2.1000e-004</b>	<b>1.9000e-004</b>	<b>7.3796</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.6279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>59.8087</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7400e-003	1.8600e-003	0.0281	7.0000e-005	8.2100e-003	4.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.3175	7.3175	2.1000e-004	1.9000e-004	7.3796
<b>Total</b>	<b>3.7400e-003</b>	<b>1.8600e-003</b>	<b>0.0281</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>4.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.3175</b>	<b>7.3175</b>	<b>2.1000e-004</b>	<b>1.9000e-004</b>	<b>7.3796</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	2.6739	2.6739	2.5500e-003	0.0000	2.7376
Unmitigated	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	2.6739	2.6739	2.5500e-003	0.0000	2.7376



CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003		2.6739	2.6739	2.5500e-003		2.7376
<b>Total</b>	<b>0.0443</b>	<b>0.0171</b>	<b>1.4798</b>	<b>8.0000e-005</b>		<b>8.2400e-003</b>	<b>8.2400e-003</b>		<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>2.6739</b>	<b>2.6739</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>2.7376</b>

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003		2.6739	2.6739	2.5500e-003		2.7376
<b>Total</b>	<b>0.0443</b>	<b>0.0171</b>	<b>1.4798</b>	<b>8.0000e-005</b>		<b>8.2400e-003</b>	<b>8.2400e-003</b>		<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>2.6739</b>	<b>2.6739</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>2.7376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 2 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 3 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>	2035		
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Solid Waste - Construction run only

Water And Wastewater - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/14/2026	12/30/2025
tblConstructionPhase	PhaseEndDate	5/19/2026	11/12/2025
tblConstructionPhase	PhaseEndDate	1/28/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	3/25/2025	2/5/2025
tblConstructionPhase	PhaseEndDate	6/16/2026	12/5/2025
tblConstructionPhase	PhaseEndDate	2/11/2025	1/13/2025
tblConstructionPhase	PhaseStartDate	6/17/2026	12/8/2025
tblConstructionPhase	PhaseStartDate	3/26/2025	2/6/2025
tblConstructionPhase	PhaseStartDate	2/12/2025	1/14/2025
tblConstructionPhase	PhaseStartDate	5/20/2026	11/13/2025
tblConstructionPhase	PhaseStartDate	1/29/2025	1/1/2025

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblLandUse	LotAcreage	5.84	5.06

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00







CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2025	12/31/2024	5	0	
2	Site Preparation	Site Preparation	1/1/2025	1/13/2025	5	9	
3	Grading	Grading	1/14/2025	2/5/2025	5	17	

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2025	11/12/2025	5	200
5	Paving	Paving	11/13/2025	12/5/2025	5	17
6	Architectural Coating	Architectural Coating	12/8/2025	12/30/2025	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.5000e-004	1.9400e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4841	0.4841	2.0000e-005	1.0000e-005	0.4888
<b>Total</b>	<b>2.5000e-004</b>	<b>1.5000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4841</b>	<b>0.4841</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4888</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.5000e-004	1.9400e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4841	0.4841	2.0000e-005	1.0000e-005	0.4888
<b>Total</b>	<b>2.5000e-004</b>	<b>1.5000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4841</b>	<b>0.4841</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4888</b>

**3.4 Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.2000e-004	4.0800e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	1.0161	1.0161	3.0000e-005	3.0000e-005	1.0258
<b>Total</b>	<b>5.4000e-004</b>	<b>3.2000e-004</b>	<b>4.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3500e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0161</b>	<b>1.0161</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0258</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.2000e-004	4.0800e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	1.0161	1.0161	3.0000e-005	3.0000e-005	1.0258
<b>Total</b>	<b>5.4000e-004</b>	<b>3.2000e-004</b>	<b>4.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3500e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0161</b>	<b>1.0161</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0258</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>



CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0847	0.0194	3.1000e-004	9.1200e-003	4.5000e-004	9.5700e-003	2.6400e-003	4.3000e-004	3.0700e-003	0.0000	29.2198	29.2198	9.0000e-005	4.3400e-003	30.5162
Worker	0.0280	0.0169	0.2134	5.8000e-004	0.0701	3.7000e-004	0.0704	0.0186	3.4000e-004	0.0190	0.0000	53.1952	53.1952	1.6900e-003	1.5600e-003	53.7036
<b>Total</b>	<b>0.0299</b>	<b>0.1016</b>	<b>0.2328</b>	<b>8.9000e-004</b>	<b>0.0792</b>	<b>8.2000e-004</b>	<b>0.0800</b>	<b>0.0213</b>	<b>7.7000e-004</b>	<b>0.0221</b>	<b>0.0000</b>	<b>82.4150</b>	<b>82.4150</b>	<b>1.7800e-003</b>	<b>5.9000e-003</b>	<b>84.2199</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0847	0.0194	3.1000e-004	9.1200e-003	4.5000e-004	9.5700e-003	2.6400e-003	4.3000e-004	3.0700e-003	0.0000	29.2198	29.2198	9.0000e-005	4.3400e-003	30.5162
Worker	0.0280	0.0169	0.2134	5.8000e-004	0.0701	3.7000e-004	0.0704	0.0186	3.4000e-004	0.0190	0.0000	53.1952	53.1952	1.6900e-003	1.5600e-003	53.7036
<b>Total</b>	<b>0.0299</b>	<b>0.1016</b>	<b>0.2328</b>	<b>8.9000e-004</b>	<b>0.0792</b>	<b>8.2000e-004</b>	<b>0.0800</b>	<b>0.0213</b>	<b>7.7000e-004</b>	<b>0.0221</b>	<b>0.0000</b>	<b>82.4150</b>	<b>82.4150</b>	<b>1.7800e-003</b>	<b>5.9000e-003</b>	<b>84.2199</b>

**3.6 Paving - 2025**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.4000e-004	3.0600e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7621	0.7621	2.0000e-005	2.0000e-005	0.7694
<b>Total</b>	<b>4.0000e-004</b>	<b>2.4000e-004</b>	<b>3.0600e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7694</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.4000e-004	3.0600e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7621	0.7621	2.0000e-005	2.0000e-005	0.7694
<b>Total</b>	<b>4.0000e-004</b>	<b>2.4000e-004</b>	<b>3.0600e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7694</b>

**3.7 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3058					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>2.3073</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9145	0.9145	3.0000e-005	3.0000e-005	0.9232
<b>Total</b>	<b>4.8000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9145</b>	<b>0.9145</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9232</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3058					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>2.3073</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9145	0.9145	3.0000e-005	3.0000e-005	0.9232
<b>Total</b>	<b>4.8000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9145</b>	<b>0.9145</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9232</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000







CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**



CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 3 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>	2035		
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Solid Waste - Construction run only

Water And Wastewater - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/14/2026	12/30/2025
tblConstructionPhase	PhaseEndDate	5/19/2026	11/12/2025
tblConstructionPhase	PhaseEndDate	1/28/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	3/25/2025	2/5/2025
tblConstructionPhase	PhaseEndDate	6/16/2026	12/5/2025
tblConstructionPhase	PhaseEndDate	2/11/2025	1/13/2025
tblConstructionPhase	PhaseStartDate	6/17/2026	12/8/2025
tblConstructionPhase	PhaseStartDate	3/26/2025	2/6/2025
tblConstructionPhase	PhaseStartDate	2/12/2025	1/14/2025
tblConstructionPhase	PhaseStartDate	5/20/2026	11/13/2025
tblConstructionPhase	PhaseStartDate	1/29/2025	1/1/2025

## CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblLandUse	LotAcreage	5.84	5.06

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00





CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2025	12/31/2024	5	0	
2	Site Preparation	Site Preparation	1/1/2025	1/13/2025	5	9	
3	Grading	Grading	1/14/2025	2/5/2025	5	17	
4	Building Construction	Building Construction	2/6/2025	11/12/2025	5	200	
5	Paving	Paving	11/13/2025	12/5/2025	5	17	
6	Architectural Coating	Architectural Coating	12/8/2025	12/30/2025	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0300	0.4691	1.2600e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		127.4320	127.4320	3.4700e-003	3.2000e-003	128.4728
<b>Total</b>	<b>0.0632</b>	<b>0.0300</b>	<b>0.4691</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>7.4000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>127.4320</b>	<b>127.4320</b>	<b>3.4700e-003</b>	<b>3.2000e-003</b>	<b>128.4728</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0300	0.4691	1.2600e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		127.4320	127.4320	3.4700e-003	3.2000e-003	128.4728
<b>Total</b>	<b>0.0632</b>	<b>0.0300</b>	<b>0.4691</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>7.4000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>127.4320</b>	<b>127.4320</b>	<b>3.4700e-003</b>	<b>3.2000e-003</b>	<b>128.4728</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0703	0.0334	0.5212	1.4000e-003	0.1643	8.2000e-004	0.1651	0.0436	7.6000e-004	0.0443		141.5912	141.5912	3.8500e-003	3.5600e-003	142.7476
<b>Total</b>	<b>0.0703</b>	<b>0.0334</b>	<b>0.5212</b>	<b>1.4000e-003</b>	<b>0.1643</b>	<b>8.2000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.6000e-004</b>	<b>0.0443</b>		<b>141.5912</b>	<b>141.5912</b>	<b>3.8500e-003</b>	<b>3.5600e-003</b>	<b>142.7476</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0703	0.0334	0.5212	1.4000e-003	0.1643	8.2000e-004	0.1651	0.0436	7.6000e-004	0.0443		141.5912	141.5912	3.8500e-003	3.5600e-003	142.7476
<b>Total</b>	<b>0.0703</b>	<b>0.0334</b>	<b>0.5212</b>	<b>1.4000e-003</b>	<b>0.1643</b>	<b>8.2000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.6000e-004</b>	<b>0.0443</b>		<b>141.5912</b>	<b>141.5912</b>	<b>3.8500e-003</b>	<b>3.5600e-003</b>	<b>142.7476</b>



CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0190	0.8159	0.1903	3.0500e-003	0.0945	4.4600e-003	0.0989	0.0272	4.2700e-003	0.0314		321.9889	321.9889	1.0000e-003	0.0478	336.2650
Worker	0.3127	0.1485	2.3195	6.2300e-003	0.7311	3.6600e-003	0.7348	0.1939	3.3700e-003	0.1973		630.0806	630.0806	0.0171	0.0158	635.2267
<b>Total</b>	<b>0.3317</b>	<b>0.9643</b>	<b>2.5098</b>	<b>9.2800e-003</b>	<b>0.8256</b>	<b>8.1200e-003</b>	<b>0.8337</b>	<b>0.2211</b>	<b>7.6400e-003</b>	<b>0.2287</b>		<b>952.0696</b>	<b>952.0696</b>	<b>0.0181</b>	<b>0.0637</b>	<b>971.4916</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0190	0.8159	0.1903	3.0500e-003	0.0945	4.4600e-003	0.0989	0.0272	4.2700e-003	0.0314		321.9889	321.9889	1.0000e-003	0.0478	336.2650
Worker	0.3127	0.1485	2.3195	6.2300e-003	0.7311	3.6600e-003	0.7348	0.1939	3.3700e-003	0.1973		630.0806	630.0806	0.0171	0.0158	635.2267
<b>Total</b>	<b>0.3317</b>	<b>0.9643</b>	<b>2.5098</b>	<b>9.2800e-003</b>	<b>0.8256</b>	<b>8.1200e-003</b>	<b>0.8337</b>	<b>0.2211</b>	<b>7.6400e-003</b>	<b>0.2287</b>		<b>952.0696</b>	<b>952.0696</b>	<b>0.0181</b>	<b>0.0637</b>	<b>971.4916</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0527	0.0250	0.3909	1.0500e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		106.1934	106.1934	2.8900e-003	2.6700e-003	107.0607
<b>Total</b>	<b>0.0527</b>	<b>0.0250</b>	<b>0.3909</b>	<b>1.0500e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>106.1934</b>	<b>106.1934</b>	<b>2.8900e-003</b>	<b>2.6700e-003</b>	<b>107.0607</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0527	0.0250	0.3909	1.0500e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		106.1934	106.1934	2.8900e-003	2.6700e-003	107.0607
<b>Total</b>	<b>0.0527</b>	<b>0.0250</b>	<b>0.3909</b>	<b>1.0500e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>106.1934</b>	<b>106.1934</b>	<b>2.8900e-003</b>	<b>2.6700e-003</b>	<b>107.0607</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	271.2702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>271.4411</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0300	0.4691	1.2600e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		127.4320	127.4320	3.4700e-003	3.2000e-003	128.4728
<b>Total</b>	<b>0.0632</b>	<b>0.0300</b>	<b>0.4691</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>7.4000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>127.4320</b>	<b>127.4320</b>	<b>3.4700e-003</b>	<b>3.2000e-003</b>	<b>128.4728</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	271.2702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>271.4411</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0300	0.4691	1.2600e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		127.4320	127.4320	3.4700e-003	3.2000e-003	128.4728
<b>Total</b>	<b>0.0632</b>	<b>0.0300</b>	<b>0.4691</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>7.4000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>127.4320</b>	<b>127.4320</b>	<b>3.4700e-003</b>	<b>3.2000e-003</b>	<b>128.4728</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Unmitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

CEDHSP Construction Year 3 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 4 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Energy Use - Construction run only.

Water And Wastewater - Construction run only.

Solid Waste - Construction run only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/14/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	5/19/2027	11/12/2026
tblConstructionPhase	PhaseEndDate	1/28/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	3/25/2026	2/5/2026
tblConstructionPhase	PhaseEndDate	6/16/2027	12/8/2026
tblConstructionPhase	PhaseEndDate	2/11/2026	1/13/2026
tblConstructionPhase	PhaseStartDate	6/17/2027	12/9/2026
tblConstructionPhase	PhaseStartDate	3/26/2026	2/6/2026
tblConstructionPhase	PhaseStartDate	2/12/2026	1/14/2026
tblConstructionPhase	PhaseStartDate	5/20/2027	11/16/2026
tblConstructionPhase	PhaseStartDate	1/29/2026	1/1/2026

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00





CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	12/31/2025	5	0	
2	Site Preparation	Site Preparation	1/1/2026	1/13/2026	5	9	
3	Grading	Grading	1/14/2026	2/5/2026	5	17	

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2026	11/12/2026	5	200
5	Paving	Paving	11/16/2026	12/8/2026	5	17
6	Architectural Coating	Architectural Coating	12/9/2026	12/31/2026	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.8200e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4695	0.4695	1.0000e-005	1.0000e-005	0.4738
<b>Total</b>	<b>2.4000e-004</b>	<b>1.4000e-004</b>	<b>1.8200e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4695</b>	<b>0.4695</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4738</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.8200e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4695	0.4695	1.0000e-005	1.0000e-005	0.4738
<b>Total</b>	<b>2.4000e-004</b>	<b>1.4000e-004</b>	<b>1.8200e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4695</b>	<b>0.4695</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4738</b>

**3.4 Grading - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.9000e-004	3.8200e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9853	0.9853	3.0000e-005	3.0000e-005	0.9944
<b>Total</b>	<b>5.0000e-004</b>	<b>2.9000e-004</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9853</b>	<b>0.9853</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9944</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.9000e-004	3.8200e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9853	0.9853	3.0000e-005	3.0000e-005	0.9944
<b>Total</b>	<b>5.0000e-004</b>	<b>2.9000e-004</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9853</b>	<b>0.9853</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9944</b>

**3.5 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8100e-003	0.0818	0.0191	3.0000e-004	9.1300e-003	4.3000e-004	9.5500e-003	2.6400e-003	4.1000e-004	3.0500e-003	0.0000	28.7198	28.7198	9.0000e-005	4.2500e-003	29.9889
Worker	0.0264	0.0153	0.1999	5.6000e-004	0.0701	3.5000e-004	0.0704	0.0186	3.2000e-004	0.0190	0.0000	51.5816	51.5816	1.5500e-003	1.4700e-003	52.0582
<b>Total</b>	<b>0.0282</b>	<b>0.0971</b>	<b>0.2191</b>	<b>8.6000e-004</b>	<b>0.0792</b>	<b>7.8000e-004</b>	<b>0.0800</b>	<b>0.0213</b>	<b>7.3000e-004</b>	<b>0.0220</b>	<b>0.0000</b>	<b>80.3014</b>	<b>80.3014</b>	<b>1.6400e-003</b>	<b>5.7200e-003</b>	<b>82.0470</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8100e-003	0.0818	0.0191	3.0000e-004	9.1300e-003	4.3000e-004	9.5500e-003	2.6400e-003	4.1000e-004	3.0500e-003	0.0000	28.7198	28.7198	9.0000e-005	4.2500e-003	29.9889
Worker	0.0264	0.0153	0.1999	5.6000e-004	0.0701	3.5000e-004	0.0704	0.0186	3.2000e-004	0.0190	0.0000	51.5816	51.5816	1.5500e-003	1.4700e-003	52.0582
<b>Total</b>	<b>0.0282</b>	<b>0.0971</b>	<b>0.2191</b>	<b>8.6000e-004</b>	<b>0.0792</b>	<b>7.8000e-004</b>	<b>0.0800</b>	<b>0.0213</b>	<b>7.3000e-004</b>	<b>0.0220</b>	<b>0.0000</b>	<b>80.3014</b>	<b>80.3014</b>	<b>1.6400e-003</b>	<b>5.7200e-003</b>	<b>82.0470</b>

**3.6 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.2000e-004	2.8600e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7390	0.7390	2.0000e-005	2.0000e-005	0.7458
<b>Total</b>	<b>3.8000e-004</b>	<b>2.2000e-004</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7390</b>	<b>0.7390</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7458</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.2000e-004	2.8600e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7390	0.7390	2.0000e-005	2.0000e-005	0.7458
<b>Total</b>	<b>3.8000e-004</b>	<b>2.2000e-004</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7390</b>	<b>0.7390</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7458</b>

**3.7 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3058					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>2.3073</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.6000e-004	3.4400e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8867	0.8867	3.0000e-005	3.0000e-005	0.8949
<b>Total</b>	<b>4.5000e-004</b>	<b>2.6000e-004</b>	<b>3.4400e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8867</b>	<b>0.8867</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.8949</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3058					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>2.3073</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.6000e-004	3.4400e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8867	0.8867	3.0000e-005	3.0000e-005	0.8949
<b>Total</b>	<b>4.5000e-004</b>	<b>2.6000e-004</b>	<b>3.4400e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8867</b>	<b>0.8867</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.8949</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000





CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 4 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Energy Use - Construction run only.

Water And Wastewater - Construction run only.

Solid Waste - Construction run only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/14/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	5/19/2027	11/12/2026
tblConstructionPhase	PhaseEndDate	1/28/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	3/25/2026	2/5/2026
tblConstructionPhase	PhaseEndDate	6/16/2027	12/8/2026
tblConstructionPhase	PhaseEndDate	2/11/2026	1/13/2026
tblConstructionPhase	PhaseStartDate	6/17/2027	12/9/2026
tblConstructionPhase	PhaseStartDate	3/26/2026	2/6/2026
tblConstructionPhase	PhaseStartDate	2/12/2026	1/14/2026
tblConstructionPhase	PhaseStartDate	5/20/2027	11/16/2026
tblConstructionPhase	PhaseStartDate	1/29/2026	1/1/2026

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	12/31/2025	5	0	
2	Site Preparation	Site Preparation	1/1/2026	1/13/2026	5	9	
3	Grading	Grading	1/14/2026	2/5/2026	5	17	
4	Building Construction	Building Construction	2/6/2026	11/12/2026	5	200	
5	Paving	Paving	11/16/2026	12/8/2026	5	17	
6	Architectural Coating	Architectural Coating	12/9/2026	12/31/2026	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0596	0.0272	0.4389	1.2200e-003	0.1479	7.0000e-004	0.1486	0.0392	6.4000e-004	0.0399		123.5505	123.5505	3.1600e-003	3.0100e-003	124.5262
<b>Total</b>	<b>0.0596</b>	<b>0.0272</b>	<b>0.4389</b>	<b>1.2200e-003</b>	<b>0.1479</b>	<b>7.0000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.4000e-004</b>	<b>0.0399</b>		<b>123.5505</b>	<b>123.5505</b>	<b>3.1600e-003</b>	<b>3.0100e-003</b>	<b>124.5262</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0596	0.0272	0.4389	1.2200e-003	0.1479	7.0000e-004	0.1486	0.0392	6.4000e-004	0.0399		123.5505	123.5505	3.1600e-003	3.0100e-003	124.5262
<b>Total</b>	<b>0.0596</b>	<b>0.0272</b>	<b>0.4389</b>	<b>1.2200e-003</b>	<b>0.1479</b>	<b>7.0000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.4000e-004</b>	<b>0.0399</b>		<b>123.5505</b>	<b>123.5505</b>	<b>3.1600e-003</b>	<b>3.0100e-003</b>	<b>124.5262</b>



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0663	0.0302	0.4877	1.3600e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		137.2783	137.2783	3.5100e-003	3.3400e-003	138.3624
<b>Total</b>	<b>0.0663</b>	<b>0.0302</b>	<b>0.4877</b>	<b>1.3600e-003</b>	<b>0.1643</b>	<b>7.8000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.2000e-004</b>	<b>0.0443</b>		<b>137.2783</b>	<b>137.2783</b>	<b>3.5100e-003</b>	<b>3.3400e-003</b>	<b>138.3624</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0663	0.0302	0.4877	1.3600e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		137.2783	137.2783	3.5100e-003	3.3400e-003	138.3624
<b>Total</b>	<b>0.0663</b>	<b>0.0302</b>	<b>0.4877</b>	<b>1.3600e-003</b>	<b>0.1643</b>	<b>7.8000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.2000e-004</b>	<b>0.0443</b>		<b>137.2783</b>	<b>137.2783</b>	<b>3.5100e-003</b>	<b>3.3400e-003</b>	<b>138.3624</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0185	0.7880	0.1877	3.0000e-003	0.0945	4.2500e-003	0.0987	0.0272	4.0600e-003	0.0312		316.4661	316.4661	9.7000e-004	0.0468	330.4399
Worker	0.2949	0.1344	2.1702	6.0400e-003	0.7311	3.4600e-003	0.7346	0.1939	3.1900e-003	0.1971		610.8886	610.8886	0.0156	0.0149	615.7126
<b>Total</b>	<b>0.3133</b>	<b>0.9224</b>	<b>2.3578</b>	<b>9.0400e-003</b>	<b>0.8256</b>	<b>7.7100e-003</b>	<b>0.8333</b>	<b>0.2211</b>	<b>7.2500e-003</b>	<b>0.2284</b>		<b>927.3546</b>	<b>927.3546</b>	<b>0.0166</b>	<b>0.0617</b>	<b>946.1525</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0185	0.7880	0.1877	3.0000e-003	0.0945	4.2500e-003	0.0987	0.0272	4.0600e-003	0.0312		316.4661	316.4661	9.7000e-004	0.0468	330.4399
Worker	0.2949	0.1344	2.1702	6.0400e-003	0.7311	3.4600e-003	0.7346	0.1939	3.1900e-003	0.1971		610.8886	610.8886	0.0156	0.0149	615.7126
<b>Total</b>	<b>0.3133</b>	<b>0.9224</b>	<b>2.3578</b>	<b>9.0400e-003</b>	<b>0.8256</b>	<b>7.7100e-003</b>	<b>0.8333</b>	<b>0.2211</b>	<b>7.2500e-003</b>	<b>0.2284</b>		<b>927.3546</b>	<b>927.3546</b>	<b>0.0166</b>	<b>0.0617</b>	<b>946.1525</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0497	0.0227	0.3658	1.0200e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		102.9588	102.9588	2.6300e-003	2.5100e-003	103.7718
<b>Total</b>	<b>0.0497</b>	<b>0.0227</b>	<b>0.3658</b>	<b>1.0200e-003</b>	<b>0.1232</b>	<b>5.8000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.4000e-004</b>	<b>0.0332</b>		<b>102.9588</b>	<b>102.9588</b>	<b>2.6300e-003</b>	<b>2.5100e-003</b>	<b>103.7718</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0497	0.0227	0.3658	1.0200e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		102.9588	102.9588	2.6300e-003	2.5100e-003	103.7718
<b>Total</b>	<b>0.0497</b>	<b>0.0227</b>	<b>0.3658</b>	<b>1.0200e-003</b>	<b>0.1232</b>	<b>5.8000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.4000e-004</b>	<b>0.0332</b>		<b>102.9588</b>	<b>102.9588</b>	<b>2.6300e-003</b>	<b>2.5100e-003</b>	<b>103.7718</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	271.2702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>271.4411</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0596	0.0272	0.4389	1.2200e-003	0.1479	7.0000e-004	0.1486	0.0392	6.4000e-004	0.0399		123.5505	123.5505	3.1600e-003	3.0100e-003	124.5262
<b>Total</b>	<b>0.0596</b>	<b>0.0272</b>	<b>0.4389</b>	<b>1.2200e-003</b>	<b>0.1479</b>	<b>7.0000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.4000e-004</b>	<b>0.0399</b>		<b>123.5505</b>	<b>123.5505</b>	<b>3.1600e-003</b>	<b>3.0100e-003</b>	<b>124.5262</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	271.2702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>271.4411</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0596	0.0272	0.4389	1.2200e-003	0.1479	7.0000e-004	0.1486	0.0392	6.4000e-004	0.0399		123.5505	123.5505	3.1600e-003	3.0100e-003	124.5262
<b>Total</b>	<b>0.0596</b>	<b>0.0272</b>	<b>0.4389</b>	<b>1.2200e-003</b>	<b>0.1479</b>	<b>7.0000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.4000e-004</b>	<b>0.0399</b>		<b>123.5505</b>	<b>123.5505</b>	<b>3.1600e-003</b>	<b>3.0100e-003</b>	<b>124.5262</b>



CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Unmitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 4 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 5 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default



CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Energy Use - Construction run only.

Water And Wastewater - Construction run only.

Solid Waste - Construction run only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2028	12/30/2027
tblConstructionPhase	PhaseEndDate	5/18/2028	11/12/2027
tblConstructionPhase	PhaseEndDate	1/28/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	3/25/2027	2/5/2027
tblConstructionPhase	PhaseEndDate	6/15/2028	12/7/2027
tblConstructionPhase	PhaseEndDate	2/11/2027	1/13/2027
tblConstructionPhase	PhaseStartDate	6/16/2028	12/8/2027
tblConstructionPhase	PhaseStartDate	3/26/2027	2/8/2027
tblConstructionPhase	PhaseStartDate	2/12/2027	1/14/2027
tblConstructionPhase	PhaseStartDate	5/19/2028	11/15/2027
tblConstructionPhase	PhaseStartDate	1/29/2027	1/1/2027

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00





CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2027	12/31/2026	5	0	
2	Site Preparation	Site Preparation	1/1/2027	1/13/2027	5	9	
3	Grading	Grading	1/14/2027	2/5/2027	5	17	

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/8/2027	11/12/2027	5	200
5	Paving	Paving	11/15/2027	12/7/2027	5	17
6	Architectural Coating	Architectural Coating	12/8/2027	12/30/2027	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>



CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.3000e-004	1.7100e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4559	0.4559	1.0000e-005	1.0000e-005	0.4600
<b>Total</b>	<b>2.3000e-004</b>	<b>1.3000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4559</b>	<b>0.4559</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4600</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.3000e-004	1.7100e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4559	0.4559	1.0000e-005	1.0000e-005	0.4600
<b>Total</b>	<b>2.3000e-004</b>	<b>1.3000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4559</b>	<b>0.4559</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4600</b>

**3.4 Grading - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.7000e-004	3.5900e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9569	0.9569	3.0000e-005	3.0000e-005	0.9655
<b>Total</b>	<b>4.8000e-004</b>	<b>2.7000e-004</b>	<b>3.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9569</b>	<b>0.9569</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9655</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.7000e-004	3.5900e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9569	0.9569	3.0000e-005	3.0000e-005	0.9655
<b>Total</b>	<b>4.8000e-004</b>	<b>2.7000e-004</b>	<b>3.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9569</b>	<b>0.9569</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9655</b>

**3.5 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7600e-003	0.0791	0.0189	2.9000e-004	9.1300e-003	4.1000e-004	9.5300e-003	2.6400e-003	3.9000e-004	3.0300e-003	0.0000	28.1794	28.1794	8.0000e-005	4.1500e-003	29.4197
Worker	0.0249	0.0139	0.1880	5.5000e-004	0.0701	3.3000e-004	0.0704	0.0186	3.0000e-004	0.0189	0.0000	50.0976	50.0976	1.4200e-003	1.3900e-003	50.5467
<b>Total</b>	<b>0.0266</b>	<b>0.0930</b>	<b>0.2069</b>	<b>8.4000e-004</b>	<b>0.0792</b>	<b>7.4000e-004</b>	<b>0.0799</b>	<b>0.0213</b>	<b>6.9000e-004</b>	<b>0.0220</b>	<b>0.0000</b>	<b>78.2770</b>	<b>78.2770</b>	<b>1.5000e-003</b>	<b>5.5400e-003</b>	<b>79.9664</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2027**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7600e-003	0.0791	0.0189	2.9000e-004	9.1300e-003	4.1000e-004	9.5300e-003	2.6400e-003	3.9000e-004	3.0300e-003	0.0000	28.1794	28.1794	8.0000e-005	4.1500e-003	29.4197
Worker	0.0249	0.0139	0.1880	5.5000e-004	0.0701	3.3000e-004	0.0704	0.0186	3.0000e-004	0.0189	0.0000	50.0976	50.0976	1.4200e-003	1.3900e-003	50.5467
<b>Total</b>	<b>0.0266</b>	<b>0.0930</b>	<b>0.2069</b>	<b>8.4000e-004</b>	<b>0.0792</b>	<b>7.4000e-004</b>	<b>0.0799</b>	<b>0.0213</b>	<b>6.9000e-004</b>	<b>0.0220</b>	<b>0.0000</b>	<b>78.2770</b>	<b>78.2770</b>	<b>1.5000e-003</b>	<b>5.5400e-003</b>	<b>79.9664</b>

**3.6 Paving - 2027**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.0000e-004	2.6900e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7177	0.7177	2.0000e-005	2.0000e-005	0.7241
<b>Total</b>	<b>3.6000e-004</b>	<b>2.0000e-004</b>	<b>2.6900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7177</b>	<b>0.7177</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7241</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.0000e-004	2.6900e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7177	0.7177	2.0000e-005	2.0000e-005	0.7241
<b>Total</b>	<b>3.6000e-004</b>	<b>2.0000e-004</b>	<b>2.6900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7177</b>	<b>0.7177</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7241</b>

**3.7 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3058					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>2.3073</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>



CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.4000e-004	3.2300e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8612	0.8612	2.0000e-005	2.0000e-005	0.8690
<b>Total</b>	<b>4.3000e-004</b>	<b>2.4000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8612</b>	<b>0.8612</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8690</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3058					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>2.3073</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.4000e-004	3.2300e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8612	0.8612	2.0000e-005	2.0000e-005	0.8690
<b>Total</b>	<b>4.3000e-004</b>	<b>2.4000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8612</b>	<b>0.8612</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8690</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000





CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**





CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 5 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default



CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Energy Use - Construction run only.

Water And Wastewater - Construction run only.

Solid Waste - Construction run only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2028	12/30/2027
tblConstructionPhase	PhaseEndDate	5/18/2028	11/12/2027
tblConstructionPhase	PhaseEndDate	1/28/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	3/25/2027	2/5/2027
tblConstructionPhase	PhaseEndDate	6/15/2028	12/7/2027
tblConstructionPhase	PhaseEndDate	2/11/2027	1/13/2027
tblConstructionPhase	PhaseStartDate	6/16/2028	12/8/2027
tblConstructionPhase	PhaseStartDate	3/26/2027	2/8/2027
tblConstructionPhase	PhaseStartDate	2/12/2027	1/14/2027
tblConstructionPhase	PhaseStartDate	5/19/2028	11/15/2027
tblConstructionPhase	PhaseStartDate	1/29/2027	1/1/2027

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00



CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2027	12/31/2026	5	0	
2	Site Preparation	Site Preparation	1/1/2027	1/13/2027	5	9	
3	Grading	Grading	1/14/2027	2/5/2027	5	17	
4	Building Construction	Building Construction	2/8/2027	11/12/2027	5	200	
5	Paving	Paving	11/15/2027	12/7/2027	5	17	
6	Architectural Coating	Architectural Coating	12/8/2027	12/30/2027	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0247	0.4123	1.1900e-003	0.1479	6.6000e-004	0.1485	0.0392	6.1000e-004	0.0398		119.9873	119.9873	2.8800e-003	2.8400e-003	120.9068
<b>Total</b>	<b>0.0562</b>	<b>0.0247</b>	<b>0.4123</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>6.6000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>6.1000e-004</b>	<b>0.0398</b>		<b>119.9873</b>	<b>119.9873</b>	<b>2.8800e-003</b>	<b>2.8400e-003</b>	<b>120.9068</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0247	0.4123	1.1900e-003	0.1479	6.6000e-004	0.1485	0.0392	6.1000e-004	0.0398		119.9873	119.9873	2.8800e-003	2.8400e-003	120.9068
<b>Total</b>	<b>0.0562</b>	<b>0.0247</b>	<b>0.4123</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>6.6000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>6.1000e-004</b>	<b>0.0398</b>		<b>119.9873</b>	<b>119.9873</b>	<b>2.8800e-003</b>	<b>2.8400e-003</b>	<b>120.9068</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0624	0.0275	0.4581	1.3200e-003	0.1643	7.3000e-004	0.1650	0.0436	6.7000e-004	0.0443		133.3192	133.3192	3.2000e-003	3.1600e-003	134.3409
<b>Total</b>	<b>0.0624</b>	<b>0.0275</b>	<b>0.4581</b>	<b>1.3200e-003</b>	<b>0.1643</b>	<b>7.3000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.7000e-004</b>	<b>0.0443</b>		<b>133.3192</b>	<b>133.3192</b>	<b>3.2000e-003</b>	<b>3.1600e-003</b>	<b>134.3409</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0624	0.0275	0.4581	1.3200e-003	0.1643	7.3000e-004	0.1650	0.0436	6.7000e-004	0.0443		133.3192	133.3192	3.2000e-003	3.1600e-003	134.3409
<b>Total</b>	<b>0.0624</b>	<b>0.0275</b>	<b>0.4581</b>	<b>1.3200e-003</b>	<b>0.1643</b>	<b>7.3000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.7000e-004</b>	<b>0.0443</b>		<b>133.3192</b>	<b>133.3192</b>	<b>3.2000e-003</b>	<b>3.1600e-003</b>	<b>134.3409</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.7621	0.1855	2.9400e-003	0.0945	4.0600e-003	0.0986	0.0272	3.8900e-003	0.0311		310.4992	310.4992	9.4000e-004	0.0458	324.1556
Worker	0.2777	0.1223	2.0387	5.8700e-003	0.7311	3.2500e-003	0.7344	0.1939	2.9900e-003	0.1969		593.2706	593.2706	0.0143	0.0141	597.8170
<b>Total</b>	<b>0.2956</b>	<b>0.8844</b>	<b>2.2242</b>	<b>8.8100e-003</b>	<b>0.8256</b>	<b>7.3100e-003</b>	<b>0.8329</b>	<b>0.2211</b>	<b>6.8800e-003</b>	<b>0.2280</b>		<b>903.7698</b>	<b>903.7698</b>	<b>0.0152</b>	<b>0.0598</b>	<b>921.9726</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.7621	0.1855	2.9400e-003	0.0945	4.0600e-003	0.0986	0.0272	3.8900e-003	0.0311		310.4992	310.4992	9.4000e-004	0.0458	324.1556
Worker	0.2777	0.1223	2.0387	5.8700e-003	0.7311	3.2500e-003	0.7344	0.1939	2.9900e-003	0.1969		593.2706	593.2706	0.0143	0.0141	597.8170
<b>Total</b>	<b>0.2956</b>	<b>0.8844</b>	<b>2.2242</b>	<b>8.8100e-003</b>	<b>0.8256</b>	<b>7.3100e-003</b>	<b>0.8329</b>	<b>0.2211</b>	<b>6.8800e-003</b>	<b>0.2280</b>		<b>903.7698</b>	<b>903.7698</b>	<b>0.0152</b>	<b>0.0598</b>	<b>921.9726</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0468	0.0206	0.3436	9.9000e-004	0.1232	5.5000e-004	0.1238	0.0327	5.0000e-004	0.0332		99.9894	99.9894	2.4000e-003	2.3700e-003	100.7557
<b>Total</b>	<b>0.0468</b>	<b>0.0206</b>	<b>0.3436</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>5.5000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.0000e-004</b>	<b>0.0332</b>		<b>99.9894</b>	<b>99.9894</b>	<b>2.4000e-003</b>	<b>2.3700e-003</b>	<b>100.7557</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0468	0.0206	0.3436	9.9000e-004	0.1232	5.5000e-004	0.1238	0.0327	5.0000e-004	0.0332		99.9894	99.9894	2.4000e-003	2.3700e-003	100.7557
<b>Total</b>	<b>0.0468</b>	<b>0.0206</b>	<b>0.3436</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>5.5000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.0000e-004</b>	<b>0.0332</b>		<b>99.9894</b>	<b>99.9894</b>	<b>2.4000e-003</b>	<b>2.3700e-003</b>	<b>100.7557</b>



CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	271.2702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>271.4411</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0247	0.4123	1.1900e-003	0.1479	6.6000e-004	0.1485	0.0392	6.1000e-004	0.0398		119.9873	119.9873	2.8800e-003	2.8400e-003	120.9068
<b>Total</b>	<b>0.0562</b>	<b>0.0247</b>	<b>0.4123</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>6.6000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>6.1000e-004</b>	<b>0.0398</b>		<b>119.9873</b>	<b>119.9873</b>	<b>2.8800e-003</b>	<b>2.8400e-003</b>	<b>120.9068</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	271.2702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>271.4411</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0247	0.4123	1.1900e-003	0.1479	6.6000e-004	0.1485	0.0392	6.1000e-004	0.0398		119.9873	119.9873	2.8800e-003	2.8400e-003	120.9068
<b>Total</b>	<b>0.0562</b>	<b>0.0247</b>	<b>0.4123</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>6.6000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>6.1000e-004</b>	<b>0.0398</b>		<b>119.9873</b>	<b>119.9873</b>	<b>2.8800e-003</b>	<b>2.8400e-003</b>	<b>120.9068</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Unmitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 5 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 6 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	48195	0
tblAreaCoating	Area_Residential_Interior	144585	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2029	12/29/2028
tblConstructionPhase	PhaseEndDate	5/18/2029	11/13/2028
tblConstructionPhase	PhaseEndDate	1/28/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	3/24/2028	2/7/2028
tblConstructionPhase	PhaseEndDate	6/15/2029	12/6/2028
tblConstructionPhase	PhaseEndDate	2/11/2028	1/13/2028
tblConstructionPhase	PhaseStartDate	6/16/2029	12/7/2028
tblConstructionPhase	PhaseStartDate	3/25/2028	2/8/2028
tblConstructionPhase	PhaseStartDate	2/12/2028	1/14/2028
tblConstructionPhase	PhaseStartDate	5/19/2029	11/14/2028
tblConstructionPhase	PhaseStartDate	1/29/2028	1/3/2028
tblConsumerProducts	ROG_EF	2.14E-05	0

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/13/2028	5	9	
3	Grading	Grading	1/14/2028	2/7/2028	5	17	



CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/8/2028	11/13/2028	5	200
5	Paving	Paving	11/14/2028	12/6/2028	5	17
6	Architectural Coating	Architectural Coating	12/7/2028	12/29/2028	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37





CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.3 Site Preparation - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.6200e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4437	0.4437	1.0000e-005	1.0000e-005	0.4476
<b>Total</b>	<b>2.1000e-004</b>	<b>1.2000e-004</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4437</b>	<b>0.4437</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4476</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.6200e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4437	0.4437	1.0000e-005	1.0000e-005	0.4476
<b>Total</b>	<b>2.1000e-004</b>	<b>1.2000e-004</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4437</b>	<b>0.4437</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4476</b>

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.4000e-004	3.4000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9312	0.9312	2.0000e-005	3.0000e-005	0.9393
<b>Total</b>	<b>4.5000e-004</b>	<b>2.4000e-004</b>	<b>3.4000e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9312</b>	<b>0.9312</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9393</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.4000e-004	3.4000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9312	0.9312	2.0000e-005	3.0000e-005	0.9393
<b>Total</b>	<b>4.5000e-004</b>	<b>2.4000e-004</b>	<b>3.4000e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9312</b>	<b>0.9312</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9393</b>

**3.5 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>



CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0329	8.0400e-003	1.2000e-004	3.9100e-003	1.7000e-004	4.0800e-003	1.1300e-003	1.6000e-004	1.2900e-003	0.0000	11.8606	11.8606	4.0000e-005	1.7400e-003	12.3805
Worker	9.1900e-003	4.9900e-003	0.0699	2.1000e-004	0.0276	1.2000e-004	0.0277	7.3300e-003	1.1000e-004	7.4400e-003	0.0000	19.1714	19.1714	5.1000e-004	5.2000e-004	19.3388
<b>Total</b>	<b>9.9300e-003</b>	<b>0.0379</b>	<b>0.0780</b>	<b>3.3000e-004</b>	<b>0.0315</b>	<b>2.9000e-004</b>	<b>0.0318</b>	<b>8.4600e-003</b>	<b>2.7000e-004</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>31.0320</b>	<b>31.0320</b>	<b>5.5000e-004</b>	<b>2.2600e-003</b>	<b>31.7193</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0329	8.0400e-003	1.2000e-004	3.9100e-003	1.7000e-004	4.0800e-003	1.1300e-003	1.6000e-004	1.2900e-003	0.0000	11.8606	11.8606	4.0000e-005	1.7400e-003	12.3805
Worker	9.1900e-003	4.9900e-003	0.0699	2.1000e-004	0.0276	1.2000e-004	0.0277	7.3300e-003	1.1000e-004	7.4400e-003	0.0000	19.1714	19.1714	5.1000e-004	5.2000e-004	19.3388
<b>Total</b>	<b>9.9300e-003</b>	<b>0.0379</b>	<b>0.0780</b>	<b>3.3000e-004</b>	<b>0.0315</b>	<b>2.9000e-004</b>	<b>0.0318</b>	<b>8.4600e-003</b>	<b>2.7000e-004</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>31.0320</b>	<b>31.0320</b>	<b>5.5000e-004</b>	<b>2.2600e-003</b>	<b>31.7193</b>

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.5500e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6984	0.6984	2.0000e-005	2.0000e-005	0.7045
<b>Total</b>	<b>3.3000e-004</b>	<b>1.8000e-004</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6984</b>	<b>0.6984</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7045</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.5500e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6984	0.6984	2.0000e-005	2.0000e-005	0.7045
<b>Total</b>	<b>3.3000e-004</b>	<b>1.8000e-004</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6984</b>	<b>0.6984</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7045</b>

**3.7 Architectural Coating - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>1.1184</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.1900e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3259	0.3259	1.0000e-005	1.0000e-005	0.3288
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3259</b>	<b>0.3259</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3288</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>1.1184</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.1900e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3259	0.3259	1.0000e-005	1.0000e-005	0.3288
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3259</b>	<b>0.3259</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3288</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**







CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 6 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	48195	0
tblAreaCoating	Area_Residential_Interior	144585	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2029	12/29/2028
tblConstructionPhase	PhaseEndDate	5/18/2029	11/13/2028
tblConstructionPhase	PhaseEndDate	1/28/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	3/24/2028	2/7/2028
tblConstructionPhase	PhaseEndDate	6/15/2029	12/6/2028
tblConstructionPhase	PhaseEndDate	2/11/2028	1/13/2028
tblConstructionPhase	PhaseStartDate	6/16/2029	12/7/2028
tblConstructionPhase	PhaseStartDate	3/25/2028	2/8/2028
tblConstructionPhase	PhaseStartDate	2/12/2028	1/14/2028
tblConstructionPhase	PhaseStartDate	5/19/2029	11/14/2028
tblConstructionPhase	PhaseStartDate	1/29/2028	1/3/2028
tblConsumerProducts	ROG_EF	2.14E-05	0

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/13/2028	5	9	
3	Grading	Grading	1/14/2028	2/7/2028	5	17	
4	Building Construction	Building Construction	2/8/2028	11/13/2028	5	200	
5	Paving	Paving	11/14/2028	12/6/2028	5	17	
6	Architectural Coating	Architectural Coating	12/7/2028	12/29/2028	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38



CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0528	0.0226	0.3898	1.1600e-003	0.1479	6.1000e-004	0.1485	0.0392	5.7000e-004	0.0398		116.7566	116.7566	2.6400e-003	2.7000e-003	117.6280
<b>Total</b>	<b>0.0528</b>	<b>0.0226</b>	<b>0.3898</b>	<b>1.1600e-003</b>	<b>0.1479</b>	<b>6.1000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>5.7000e-004</b>	<b>0.0398</b>		<b>116.7566</b>	<b>116.7566</b>	<b>2.6400e-003</b>	<b>2.7000e-003</b>	<b>117.6280</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0528	0.0226	0.3898	1.1600e-003	0.1479	6.1000e-004	0.1485	0.0392	5.7000e-004	0.0398		116.7566	116.7566	2.6400e-003	2.7000e-003	117.6280
<b>Total</b>	<b>0.0528</b>	<b>0.0226</b>	<b>0.3898</b>	<b>1.1600e-003</b>	<b>0.1479</b>	<b>6.1000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>5.7000e-004</b>	<b>0.0398</b>		<b>116.7566</b>	<b>116.7566</b>	<b>2.6400e-003</b>	<b>2.7000e-003</b>	<b>117.6280</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0251	0.4331	1.2800e-003	0.1643	6.8000e-004	0.1650	0.0436	6.3000e-004	0.0442		129.7296	129.7296	2.9400e-003	3.0000e-003	130.6978
<b>Total</b>	<b>0.0586</b>	<b>0.0251</b>	<b>0.4331</b>	<b>1.2800e-003</b>	<b>0.1643</b>	<b>6.8000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.3000e-004</b>	<b>0.0442</b>		<b>129.7296</b>	<b>129.7296</b>	<b>2.9400e-003</b>	<b>3.0000e-003</b>	<b>130.6978</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0251	0.4331	1.2800e-003	0.1643	6.8000e-004	0.1650	0.0436	6.3000e-004	0.0442		129.7296	129.7296	2.9400e-003	3.0000e-003	130.6978
<b>Total</b>	<b>0.0586</b>	<b>0.0251</b>	<b>0.4331</b>	<b>1.2800e-003</b>	<b>0.1643</b>	<b>6.8000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.3000e-004</b>	<b>0.0442</b>		<b>129.7296</b>	<b>129.7296</b>	<b>2.9400e-003</b>	<b>3.0000e-003</b>	<b>130.6978</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5200e-003	0.3168	0.0788	1.2400e-003	0.0405	1.6700e-003	0.0422	0.0117	1.6000e-003	0.0133		130.6832	130.6832	3.9000e-004	0.0192	136.4081
Worker	0.1026	0.0440	0.7579	2.2500e-003	0.2875	1.1900e-003	0.2887	0.0763	1.1000e-003	0.0774		227.0267	227.0267	5.1400e-003	5.2500e-003	228.7211
<b>Total</b>	<b>0.1101</b>	<b>0.3608</b>	<b>0.8367</b>	<b>3.4900e-003</b>	<b>0.3280</b>	<b>2.8600e-003</b>	<b>0.3309</b>	<b>0.0879</b>	<b>2.7000e-003</b>	<b>0.0906</b>		<b>357.7099</b>	<b>357.7099</b>	<b>5.5300e-003</b>	<b>0.0244</b>	<b>365.1291</b>



CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5200e-003	0.3168	0.0788	1.2400e-003	0.0405	1.6700e-003	0.0422	0.0117	1.6000e-003	0.0133		130.6832	130.6832	3.9000e-004	0.0192	136.4081
Worker	0.1026	0.0440	0.7579	2.2500e-003	0.2875	1.1900e-003	0.2887	0.0763	1.1000e-003	0.0774		227.0267	227.0267	5.1400e-003	5.2500e-003	228.7211
<b>Total</b>	<b>0.1101</b>	<b>0.3608</b>	<b>0.8367</b>	<b>3.4900e-003</b>	<b>0.3280</b>	<b>2.8600e-003</b>	<b>0.3309</b>	<b>0.0879</b>	<b>2.7000e-003</b>	<b>0.0906</b>		<b>357.7099</b>	<b>357.7099</b>	<b>5.5300e-003</b>	<b>0.0244</b>	<b>365.1291</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0440	0.0188	0.3248	9.6000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		97.2972	97.2972	2.2000e-003	2.2500e-003	98.0233
<b>Total</b>	<b>0.0440</b>	<b>0.0188</b>	<b>0.3248</b>	<b>9.6000e-004</b>	<b>0.1232</b>	<b>5.1000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.7000e-004</b>	<b>0.0332</b>		<b>97.2972</b>	<b>97.2972</b>	<b>2.2000e-003</b>	<b>2.2500e-003</b>	<b>98.0233</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0440	0.0188	0.3248	9.6000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		97.2972	97.2972	2.2000e-003	2.2500e-003	98.0233
<b>Total</b>	<b>0.0440</b>	<b>0.0188</b>	<b>0.3248</b>	<b>9.6000e-004</b>	<b>0.1232</b>	<b>5.1000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.7000e-004</b>	<b>0.0332</b>		<b>97.2972</b>	<b>97.2972</b>	<b>2.2000e-003</b>	<b>2.2500e-003</b>	<b>98.0233</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	131.4023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>131.5731</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0205	8.7900e-003	0.1516	4.5000e-004	0.0575	2.4000e-004	0.0577	0.0153	2.2000e-004	0.0155		45.4053	45.4053	1.0300e-003	1.0500e-003	45.7442
<b>Total</b>	<b>0.0205</b>	<b>8.7900e-003</b>	<b>0.1516</b>	<b>4.5000e-004</b>	<b>0.0575</b>	<b>2.4000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>2.2000e-004</b>	<b>0.0155</b>		<b>45.4053</b>	<b>45.4053</b>	<b>1.0300e-003</b>	<b>1.0500e-003</b>	<b>45.7442</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	131.4023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>131.5731</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0205	8.7900e-003	0.1516	4.5000e-004	0.0575	2.4000e-004	0.0577	0.0153	2.2000e-004	0.0155		45.4053	45.4053	1.0300e-003	1.0500e-003	45.7442
<b>Total</b>	<b>0.0205</b>	<b>8.7900e-003</b>	<b>0.1516</b>	<b>4.5000e-004</b>	<b>0.0575</b>	<b>2.4000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>2.2000e-004</b>	<b>0.0155</b>		<b>45.4053</b>	<b>45.4053</b>	<b>1.0300e-003</b>	<b>1.0500e-003</b>	<b>45.7442</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**



CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Unmitigated	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.0600e-003		8.6690
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.0600e-003		8.6690
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 6 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 7 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
City Park	8.00	Acre	8.00	348,480.00	0
Other Asphalt Surfaces	6.00	Acre	6.00	261,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Other Asphalt surfaces accounts for a portion of the 12 acres of Right Of Way and paved areas throughout project area. City Park land use includes 7 acres of "Village Park" and 1 acre of "Neighborhood Park" within the 169 acres of open space. See Excel file CEDH\_Assumptions.

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Water And Wastewater - Construction run only.

Energy Use - Construction run only.

Solid Waste - Construction run only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	15682	0
tblAreaCoating	Area_Residential_Exterior	48195	0
tblAreaCoating	Area_Residential_Interior	144585	0
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	440.00	200.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	45.00	17.00
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	PhaseEndDate	4/25/2031	12/28/2029
tblConstructionPhase	PhaseEndDate	1/17/2031	11/12/2029
tblConstructionPhase	PhaseEndDate	2/9/2029	12/31/2028
tblConstructionPhase	PhaseEndDate	5/11/2029	2/5/2029
tblConstructionPhase	PhaseEndDate	3/7/2031	12/5/2029
tblConstructionPhase	PhaseEndDate	3/9/2029	1/11/2029

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/8/2031	12/6/2029
tblConstructionPhase	PhaseStartDate	5/12/2029	2/6/2029
tblConstructionPhase	PhaseStartDate	3/10/2029	1/12/2029
tblConstructionPhase	PhaseStartDate	1/18/2031	11/13/2029
tblConstructionPhase	PhaseStartDate	2/10/2029	1/1/2029
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	135.00
tblGrading	AcresOfGrading	13.50	30.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2029	12/31/2028	5	0	
2	Site Preparation	Site Preparation	1/1/2029	1/11/2029	5	9	
3	Grading	Grading	1/12/2029	2/5/2029	5	17	

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2029	11/12/2029	5	200
5	Paving	Paving	11/13/2029	12/5/2029	5	17
6	Architectural Coating	Architectural Coating	12/6/2029	12/28/2029	5	17

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,682 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	291.00	106.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0972	0.0000	0.0972	0.0464	0.0000	0.0464	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0972</b>	<b>4.8900e-003</b>	<b>0.1021</b>	<b>0.0464</b>	<b>4.5000e-003</b>	<b>0.0509</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.5400e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4326	0.4326	1.0000e-005	1.0000e-005	0.4363
<b>Total</b>	<b>2.0000e-004</b>	<b>1.1000e-004</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4326</b>	<b>0.4326</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4363</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0972	0.0000	0.0972	0.0464	0.0000	0.0464	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0972</b>	<b>4.8900e-003</b>	<b>0.1021</b>	<b>0.0464</b>	<b>4.5000e-003</b>	<b>0.0509</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.5400e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4326	0.4326	1.0000e-005	1.0000e-005	0.4363
<b>Total</b>	<b>2.0000e-004</b>	<b>1.1000e-004</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4326</b>	<b>0.4326</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4363</b>

**3.4 Grading - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1228	0.0000	0.1228	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.1228</b>	<b>9.6100e-003</b>	<b>0.1324</b>	<b>0.0359</b>	<b>8.8400e-003</b>	<b>0.0447</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.2000e-004	3.2300e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.9079	0.9079	2.0000e-005	2.0000e-005	0.9157
<b>Total</b>	<b>4.2000e-004</b>	<b>2.2000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9079</b>	<b>0.9079</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9157</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1228	0.0000	0.1228	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.1228</b>	<b>9.6100e-003</b>	<b>0.1324</b>	<b>0.0359</b>	<b>8.8400e-003</b>	<b>0.0447</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>



CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.2000e-004	3.2300e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.9079	0.9079	2.0000e-005	2.0000e-005	0.9157
<b>Total</b>	<b>4.2000e-004</b>	<b>2.2000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9079</b>	<b>0.9079</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9157</b>

**3.5 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0128	0.5637	0.1412	2.1500e-003	0.0691	2.8300e-003	0.0720	0.0200	2.7100e-003	0.0227	0.0000	205.9475	205.9475	6.1000e-004	0.0301	214.9404
Worker	0.0716	0.0382	0.5524	1.6900e-003	0.2291	9.3000e-004	0.2300	0.0610	8.5000e-004	0.0618	0.0000	155.4115	155.4115	3.9100e-003	4.1200e-003	156.7371
<b>Total</b>	<b>0.0843</b>	<b>0.6018</b>	<b>0.6935</b>	<b>3.8400e-003</b>	<b>0.2982</b>	<b>3.7600e-003</b>	<b>0.3020</b>	<b>0.0809</b>	<b>3.5600e-003</b>	<b>0.0845</b>	<b>0.0000</b>	<b>361.3590</b>	<b>361.3590</b>	<b>4.5200e-003</b>	<b>0.0343</b>	<b>371.6774</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0128	0.5637	0.1412	2.1500e-003	0.0691	2.8300e-003	0.0720	0.0200	2.7100e-003	0.0227	0.0000	205.9475	205.9475	6.1000e-004	0.0301	214.9404
Worker	0.0716	0.0382	0.5524	1.6900e-003	0.2291	9.3000e-004	0.2300	0.0610	8.5000e-004	0.0618	0.0000	155.4115	155.4115	3.9100e-003	4.1200e-003	156.7371
<b>Total</b>	<b>0.0843</b>	<b>0.6018</b>	<b>0.6935</b>	<b>3.8400e-003</b>	<b>0.2982</b>	<b>3.7600e-003</b>	<b>0.3020</b>	<b>0.0809</b>	<b>3.5600e-003</b>	<b>0.0845</b>	<b>0.0000</b>	<b>361.3590</b>	<b>361.3590</b>	<b>4.5200e-003</b>	<b>0.0343</b>	<b>371.6774</b>

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	7.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0156</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	1.7000e-004	2.4200e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6809	0.6809	2.0000e-005	2.0000e-005	0.6867
<b>Total</b>	<b>3.1000e-004</b>	<b>1.7000e-004</b>	<b>2.4200e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6809</b>	<b>0.6809</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6867</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	7.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0156</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	1.7000e-004	2.4200e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6809	0.6809	2.0000e-005	2.0000e-005	0.6867
<b>Total</b>	<b>3.1000e-004</b>	<b>1.7000e-004</b>	<b>2.4200e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6809</b>	<b>0.6809</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6867</b>

**3.7 Architectural Coating - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2078					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>1.2092</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	6.5000e-004	9.3600e-003	3.0000e-005	3.8800e-003	2.0000e-005	3.9000e-003	1.0300e-003	1.0000e-005	1.0500e-003	0.0000	2.6329	2.6329	7.0000e-005	7.0000e-005	2.6554
<b>Total</b>	<b>1.2100e-003</b>	<b>6.5000e-004</b>	<b>9.3600e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>2.0000e-005</b>	<b>3.9000e-003</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>2.6329</b>	<b>2.6329</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.6554</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2078					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>1.2092</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	6.5000e-004	9.3600e-003	3.0000e-005	3.8800e-003	2.0000e-005	3.9000e-003	1.0300e-003	1.0000e-005	1.0500e-003	0.0000	2.6329	2.6329	7.0000e-005	7.0000e-005	2.6554
<b>Total</b>	<b>1.2100e-003</b>	<b>6.5000e-004</b>	<b>9.3600e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>2.0000e-005</b>	<b>3.9000e-003</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>2.6329</b>	<b>2.6329</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.6554</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**









CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

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CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 7 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
City Park	8.00	Acre	8.00	348,480.00	0
Other Asphalt Surfaces	6.00	Acre	6.00	261,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Other Asphalt surfaces accounts for a portion of the 12 acres of Right Of Way and paved areas throughout project area. City Park land use includes 7 acres of "Village Park" and 1 acre of "Neighborhood Park" within the 169 acres of open space. See Excel file CEDH\_Assumptions.

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Water And Wastewater - Construction run only.

Energy Use - Construction run only.

Solid Waste - Construction run only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	15682	0
tblAreaCoating	Area_Residential_Exterior	48195	0
tblAreaCoating	Area_Residential_Interior	144585	0
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	440.00	200.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	45.00	17.00
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	PhaseEndDate	4/25/2031	12/28/2029
tblConstructionPhase	PhaseEndDate	1/17/2031	11/12/2029
tblConstructionPhase	PhaseEndDate	2/9/2029	12/31/2028
tblConstructionPhase	PhaseEndDate	5/11/2029	2/5/2029
tblConstructionPhase	PhaseEndDate	3/7/2031	12/5/2029
tblConstructionPhase	PhaseEndDate	3/9/2029	1/11/2029

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/8/2031	12/6/2029
tblConstructionPhase	PhaseStartDate	5/12/2029	2/6/2029
tblConstructionPhase	PhaseStartDate	3/10/2029	1/12/2029
tblConstructionPhase	PhaseStartDate	1/18/2031	11/13/2029
tblConstructionPhase	PhaseStartDate	2/10/2029	1/1/2029
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	135.00
tblGrading	AcresOfGrading	13.50	30.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4706	8.4706	8.0700e-003	0.0000	8.6723
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1402</b>	<b>0.0541</b>	<b>4.6875</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4706</b>	<b>8.4706</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>8.6723</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4706	8.4706	8.0700e-003	0.0000	8.6723
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1402</b>	<b>0.0541</b>	<b>4.6875</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4706</b>	<b>8.4706</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>8.6723</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2029	12/31/2028	5	0	
2	Site Preparation	Site Preparation	1/1/2029	1/11/2029	5	9	
3	Grading	Grading	1/12/2029	2/5/2029	5	17	
4	Building Construction	Building Construction	2/6/2029	11/12/2029	5	200	
5	Paving	Paving	11/13/2029	12/5/2029	5	17	
6	Architectural Coating	Architectural Coating	12/6/2029	12/28/2029	5	17	

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,682 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	291.00	106.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.6013	0.0000	21.6013	10.3124	0.0000	10.3124			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>21.6013</b>	<b>1.0868</b>	<b>22.6881</b>	<b>10.3124</b>	<b>0.9999</b>	<b>11.3122</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0494	0.0208	0.3701	1.1300e-003	0.1479	5.7000e-004	0.1484	0.0392	5.3000e-004	0.0398		113.8384	113.8384	2.4300e-003	2.5800e-003	114.6685
<b>Total</b>	<b>0.0494</b>	<b>0.0208</b>	<b>0.3701</b>	<b>1.1300e-003</b>	<b>0.1479</b>	<b>5.7000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>5.3000e-004</b>	<b>0.0398</b>		<b>113.8384</b>	<b>113.8384</b>	<b>2.4300e-003</b>	<b>2.5800e-003</b>	<b>114.6685</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.6013	0.0000	21.6013	10.3124	0.0000	10.3124			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>21.6013</b>	<b>1.0868</b>	<b>22.6881</b>	<b>10.3124</b>	<b>0.9999</b>	<b>11.3122</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0494	0.0208	0.3701	1.1300e-003	0.1479	5.7000e-004	0.1484	0.0392	5.3000e-004	0.0398		113.8384	113.8384	2.4300e-003	2.5800e-003	114.6685
<b>Total</b>	<b>0.0494</b>	<b>0.0208</b>	<b>0.3701</b>	<b>1.1300e-003</b>	<b>0.1479</b>	<b>5.7000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>5.3000e-004</b>	<b>0.0398</b>		<b>113.8384</b>	<b>113.8384</b>	<b>2.4300e-003</b>	<b>2.5800e-003</b>	<b>114.6685</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					14.4437	0.0000	14.4437	4.2196	0.0000	4.2196			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>14.4437</b>	<b>1.1309</b>	<b>15.5746</b>	<b>4.2196</b>	<b>1.0404</b>	<b>5.2600</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0549	0.0231	0.4112	1.2500e-003	0.1643	6.4000e-004	0.1649	0.0436	5.9000e-004	0.0442		126.4872	126.4872	2.7000e-003	2.8700e-003	127.4095
<b>Total</b>	<b>0.0549</b>	<b>0.0231</b>	<b>0.4112</b>	<b>1.2500e-003</b>	<b>0.1643</b>	<b>6.4000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.9000e-004</b>	<b>0.0442</b>		<b>126.4872</b>	<b>126.4872</b>	<b>2.7000e-003</b>	<b>2.8700e-003</b>	<b>127.4095</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					14.4437	0.0000	14.4437	4.2196	0.0000	4.2196			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>14.4437</b>	<b>1.1309</b>	<b>15.5746</b>	<b>4.2196</b>	<b>1.0404</b>	<b>5.2600</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0549	0.0231	0.4112	1.2500e-003	0.1643	6.4000e-004	0.1649	0.0436	5.9000e-004	0.0442		126.4872	126.4872	2.7000e-003	2.8700e-003	127.4095
<b>Total</b>	<b>0.0549</b>	<b>0.0231</b>	<b>0.4112</b>	<b>1.2500e-003</b>	<b>0.1643</b>	<b>6.4000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.9000e-004</b>	<b>0.0442</b>		<b>126.4872</b>	<b>126.4872</b>	<b>2.7000e-003</b>	<b>2.8700e-003</b>	<b>127.4095</b>



CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1301	5.4337	1.3837	0.0215	0.7156	0.0283	0.7439	0.2059	0.0270	0.2329		2,269.106 7	2,269.106 7	6.7900e-003	0.3317	2,368.118 5
Worker	0.7993	0.3361	5.9835	0.0182	2.3905	9.2700e-003	2.3998	0.6341	8.5300e-003	0.6426		1,840.388 2	1,840.388 2	0.0392	0.0417	1,853.807 5
<b>Total</b>	<b>0.9293</b>	<b>5.7697</b>	<b>7.3672</b>	<b>0.0397</b>	<b>3.1061</b>	<b>0.0375</b>	<b>3.1437</b>	<b>0.8399</b>	<b>0.0356</b>	<b>0.8755</b>		<b>4,109.494 9</b>	<b>4,109.494 9</b>	<b>0.0460</b>	<b>0.3734</b>	<b>4,221.926 0</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1301	5.4337	1.3837	0.0215	0.7156	0.0283	0.7439	0.2059	0.0270	0.2329		2,269.106 7	2,269.106 7	6.7900e-003	0.3317	2,368.118 5
Worker	0.7993	0.3361	5.9835	0.0182	2.3905	9.2700e-003	2.3998	0.6341	8.5300e-003	0.6426		1,840.388 2	1,840.388 2	0.0392	0.0417	1,853.807 5
<b>Total</b>	<b>0.9293</b>	<b>5.7697</b>	<b>7.3672</b>	<b>0.0397</b>	<b>3.1061</b>	<b>0.0375</b>	<b>3.1437</b>	<b>0.8399</b>	<b>0.0356</b>	<b>0.8755</b>		<b>4,109.494 9</b>	<b>4,109.494 9</b>	<b>0.0460</b>	<b>0.3734</b>	<b>4,221.926 0</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.9247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8399</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0412	0.0173	0.3084	9.4000e-004	0.1232	4.8000e-004	0.1237	0.0327	4.4000e-004	0.0331		94.8654	94.8654	2.0200e-003	2.1500e-003	95.5571
<b>Total</b>	<b>0.0412</b>	<b>0.0173</b>	<b>0.3084</b>	<b>9.4000e-004</b>	<b>0.1232</b>	<b>4.8000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.4000e-004</b>	<b>0.0331</b>		<b>94.8654</b>	<b>94.8654</b>	<b>2.0200e-003</b>	<b>2.1500e-003</b>	<b>95.5571</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8399</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0412	0.0173	0.3084	9.4000e-004	0.1232	4.8000e-004	0.1237	0.0327	4.4000e-004	0.0331		94.8654	94.8654	2.0200e-003	2.1500e-003	95.5571
<b>Total</b>	<b>0.0412</b>	<b>0.0173</b>	<b>0.3084</b>	<b>9.4000e-004</b>	<b>0.1232</b>	<b>4.8000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.4000e-004</b>	<b>0.0331</b>		<b>94.8654</b>	<b>94.8654</b>	<b>2.0200e-003</b>	<b>2.1500e-003</b>	<b>95.5571</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	142.0914					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>142.2622</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1593	0.0670	1.1926	3.6300e-003	0.4765	1.8500e-003	0.4783	0.1264	1.7000e-003	0.1281		366.8128	366.8128	7.8200e-003	8.3200e-003	369.4874
<b>Total</b>	<b>0.1593</b>	<b>0.0670</b>	<b>1.1926</b>	<b>3.6300e-003</b>	<b>0.4765</b>	<b>1.8500e-003</b>	<b>0.4783</b>	<b>0.1264</b>	<b>1.7000e-003</b>	<b>0.1281</b>		<b>366.8128</b>	<b>366.8128</b>	<b>7.8200e-003</b>	<b>8.3200e-003</b>	<b>369.4874</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	142.0914					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>142.2622</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1593	0.0670	1.1926	3.6300e-003	0.4765	1.8500e-003	0.4783	0.1264	1.7000e-003	0.1281		366.8128	366.8128	7.8200e-003	8.3200e-003	369.4874
<b>Total</b>	<b>0.1593</b>	<b>0.0670</b>	<b>1.1926</b>	<b>3.6300e-003</b>	<b>0.4765</b>	<b>1.8500e-003</b>	<b>0.4783</b>	<b>0.1264</b>	<b>1.7000e-003</b>	<b>0.1281</b>		<b>366.8128</b>	<b>366.8128</b>	<b>7.8200e-003</b>	<b>8.3200e-003</b>	<b>369.4874</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Other Asphalt Surfaces	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4706	8.4706	8.0700e-003	0.0000	8.6723
Unmitigated	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4706	8.4706	8.0700e-003	0.0000	8.6723

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4706	8.4706	8.0700e-003		8.6723
<b>Total</b>	<b>0.1402</b>	<b>0.0541</b>	<b>4.6875</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4706</b>	<b>8.4706</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>8.6723</b>

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4706	8.4706	8.0700e-003		8.6723
<b>Total</b>	<b>0.1402</b>	<b>0.0541</b>	<b>4.6875</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4706</b>	<b>8.4706</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>8.6723</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 7 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 8 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
City Park	8.00	Acre	8.00	348,480.00	0
Other Asphalt Surfaces	6.00	Acre	6.00	261,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Other Asphalt surfaces accounts for a portion of the 12 acres of Right Of Way and paved areas throughout project area. Government civic land use includes 11 acres of "Commercial Use" or 50,000 square feet.

See Excel file CEDH\_Assumptions.

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	15682	0
tblAreaCoating	Area_Residential_Exterior	45765	0
tblAreaCoating	Area_Residential_Interior	137295	0
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	440.00	200.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	45.00	17.00
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	PhaseEndDate	4/26/2032	12/31/2030
tblConstructionPhase	PhaseEndDate	1/19/2032	11/12/2030
tblConstructionPhase	PhaseEndDate	2/11/2030	12/31/2029

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	5/13/2030	2/5/2030
tblConstructionPhase	PhaseEndDate	3/8/2032	12/6/2030
tblConstructionPhase	PhaseEndDate	3/11/2030	1/11/2030
tblConstructionPhase	PhaseStartDate	3/9/2032	12/9/2030
tblConstructionPhase	PhaseStartDate	5/14/2030	2/6/2030
tblConstructionPhase	PhaseStartDate	3/12/2030	1/14/2030
tblConstructionPhase	PhaseStartDate	1/20/2032	11/14/2030
tblConstructionPhase	PhaseStartDate	2/12/2030	1/1/2030
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	135.00
tblGrading	AcresOfGrading	13.50	30.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50



CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2030	12/31/2029	5	0	
2	Site Preparation	Site Preparation	1/1/2030	1/11/2030	5	9	
3	Grading	Grading	1/14/2030	2/5/2030	5	17	

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2030	11/12/2030	5	200
5	Paving	Paving	11/14/2030	12/6/2030	5	17
6	Architectural Coating	Architectural Coating	12/9/2030	12/31/2030	5	17

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6**

**Residential Indoor: 137,295; Residential Outdoor: 45,765; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,682 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	290.00	106.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0972	0.0000	0.0972	0.0464	0.0000	0.0464	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0972</b>	<b>1.9600e-003</b>	<b>0.0992</b>	<b>0.0464</b>	<b>1.9600e-003</b>	<b>0.0484</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.0000e-004	1.4700e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4226	0.4226	1.0000e-005	1.0000e-005	0.4261
<b>Total</b>	<b>1.9000e-004</b>	<b>1.0000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4226</b>	<b>0.4226</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4261</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0972	0.0000	0.0972	0.0464	0.0000	0.0464	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0972</b>	<b>1.9600e-003</b>	<b>0.0992</b>	<b>0.0464</b>	<b>1.9600e-003</b>	<b>0.0484</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.0000e-004	1.4700e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4226	0.4226	1.0000e-005	1.0000e-005	0.4261
<b>Total</b>	<b>1.9000e-004</b>	<b>1.0000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4226</b>	<b>0.4226</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4261</b>

**3.4 Grading - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1228	0.0000	0.1228	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6208	55.6208	2.2500e-003	0.0000	55.6770
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.1228</b>	<b>4.1500e-003</b>	<b>0.1269</b>	<b>0.0359</b>	<b>4.1500e-003</b>	<b>0.0400</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6770</b>



CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.1000e-004	3.0800e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8869	0.8869	2.0000e-005	2.0000e-005	0.8943
<b>Total</b>	<b>3.9000e-004</b>	<b>2.1000e-004</b>	<b>3.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8869</b>	<b>0.8869</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8943</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1228	0.0000	0.1228	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6207	55.6207	2.2500e-003	0.0000	55.6769
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.1228</b>	<b>4.1500e-003</b>	<b>0.1269</b>	<b>0.0359</b>	<b>4.1500e-003</b>	<b>0.0400</b>	<b>0.0000</b>	<b>55.6207</b>	<b>55.6207</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6769</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.1000e-004	3.0800e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8869	0.8869	2.0000e-005	2.0000e-005	0.8943
<b>Total</b>	<b>3.9000e-004</b>	<b>2.1000e-004</b>	<b>3.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8869</b>	<b>0.8869</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8943</b>

**3.5 Building Construction - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8610	262.8610	0.0106	0.0000	263.1247
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1247</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0126	0.5497	0.1406	2.1200e-003	0.0691	2.7400e-003	0.0719	0.0200	2.6200e-003	0.0226	0.0000	202.5785	202.5785	6.0000e-004	0.0295	211.3903
Worker	0.0665	0.0351	0.5255	1.6500e-003	0.2283	8.6000e-004	0.2292	0.0608	7.9000e-004	0.0615	0.0000	151.2991	151.2991	3.6000e-003	3.9400e-003	152.5630
<b>Total</b>	<b>0.0791</b>	<b>0.5848</b>	<b>0.6661</b>	<b>3.7700e-003</b>	<b>0.2974</b>	<b>3.6000e-003</b>	<b>0.3010</b>	<b>0.0807</b>	<b>3.4100e-003</b>	<b>0.0842</b>	<b>0.0000</b>	<b>353.8776</b>	<b>353.8776</b>	<b>4.2000e-003</b>	<b>0.0335</b>	<b>363.9533</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8607	262.8607	0.0106	0.0000	263.1243
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1243</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0126	0.5497	0.1406	2.1200e-003	0.0691	2.7400e-003	0.0719	0.0200	2.6200e-003	0.0226	0.0000	202.5785	202.5785	6.0000e-004	0.0295	211.3903
Worker	0.0665	0.0351	0.5255	1.6500e-003	0.2283	8.6000e-004	0.2292	0.0608	7.9000e-004	0.0615	0.0000	151.2991	151.2991	3.6000e-003	3.9400e-003	152.5630
<b>Total</b>	<b>0.0791</b>	<b>0.5848</b>	<b>0.6661</b>	<b>3.7700e-003</b>	<b>0.2974</b>	<b>3.6000e-003</b>	<b>0.3010</b>	<b>0.0807</b>	<b>3.4100e-003</b>	<b>0.0842</b>	<b>0.0000</b>	<b>353.8776</b>	<b>353.8776</b>	<b>4.2000e-003</b>	<b>0.0335</b>	<b>363.9533</b>

**3.6 Paving - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	7.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0196</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.5000e-004	2.3100e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6652	0.6652	2.0000e-005	2.0000e-005	0.6708
<b>Total</b>	<b>2.9000e-004</b>	<b>1.5000e-004</b>	<b>2.3100e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6652</b>	<b>0.6652</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6708</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	7.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0196</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2030**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.5000e-004	2.3100e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6652	0.6652	2.0000e-005	2.0000e-005	0.6708
<b>Total</b>	<b>2.9000e-004</b>	<b>1.5000e-004</b>	<b>2.3100e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6652</b>	<b>0.6652</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6708</b>

**3.7 Architectural Coating - 2030**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.1526</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	6.0000e-004	8.9300e-003	3.0000e-005	3.8800e-003	1.0000e-005	3.9000e-003	1.0300e-003	1.0000e-005	1.0500e-003	0.0000	2.5721	2.5721	6.0000e-005	7.0000e-005	2.5936
<b>Total</b>	<b>1.1300e-003</b>	<b>6.0000e-004</b>	<b>8.9300e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>1.0000e-005</b>	<b>3.9000e-003</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>2.5721</b>	<b>2.5721</b>	<b>6.0000e-005</b>	<b>7.0000e-005</b>	<b>2.5936</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.1526</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	6.0000e-004	8.9300e-003	3.0000e-005	3.8800e-003	1.0000e-005	3.9000e-003	1.0300e-003	1.0000e-005	1.0500e-003	0.0000	2.5721	2.5721	6.0000e-005	7.0000e-005	2.5936
<b>Total</b>	<b>1.1300e-003</b>	<b>6.0000e-004</b>	<b>8.9300e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>1.0000e-005</b>	<b>3.9000e-003</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>2.5721</b>	<b>2.5721</b>	<b>6.0000e-005</b>	<b>7.0000e-005</b>	<b>2.5936</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**



CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**







CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

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CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 8 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
City Park	8.00	Acre	8.00	348,480.00	0
Other Asphalt Surfaces	6.00	Acre	6.00	261,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Other Asphalt surfaces accounts for a portion of the 12 acres of Right Of Way and paved areas throughout project area. Government civic land use includes 11 acres of "Commercial Use" or 50,000 square feet.

See Excel file CEDH\_Assumptions.

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	15682	0
tblAreaCoating	Area_Residential_Exterior	45765	0
tblAreaCoating	Area_Residential_Interior	137295	0
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	440.00	200.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	45.00	17.00
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	PhaseEndDate	4/26/2032	12/31/2030
tblConstructionPhase	PhaseEndDate	1/19/2032	11/12/2030
tblConstructionPhase	PhaseEndDate	2/11/2030	12/31/2029

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	5/13/2030	2/5/2030
tblConstructionPhase	PhaseEndDate	3/8/2032	12/6/2030
tblConstructionPhase	PhaseEndDate	3/11/2030	1/11/2030
tblConstructionPhase	PhaseStartDate	3/9/2032	12/9/2030
tblConstructionPhase	PhaseStartDate	5/14/2030	2/6/2030
tblConstructionPhase	PhaseStartDate	3/12/2030	1/14/2030
tblConstructionPhase	PhaseStartDate	1/20/2032	11/14/2030
tblConstructionPhase	PhaseStartDate	2/12/2030	1/1/2030
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	135.00
tblGrading	AcresOfGrading	13.50	30.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50



CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252	0.0000	8.1734	8.1734	7.7900e-003	0.0000	8.3681
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1353</b>	<b>0.0522</b>	<b>4.5230</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>8.1734</b>	<b>8.1734</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>8.3681</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252	0.0000	8.1734	8.1734	7.7900e-003	0.0000	8.3681
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1353</b>	<b>0.0522</b>	<b>4.5230</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>8.1734</b>	<b>8.1734</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>8.3681</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2030	12/31/2029	5	0	
2	Site Preparation	Site Preparation	1/1/2030	1/11/2030	5	9	
3	Grading	Grading	1/14/2030	2/5/2030	5	17	
4	Building Construction	Building Construction	2/6/2030	11/12/2030	5	200	
5	Paving	Paving	11/14/2030	12/6/2030	5	17	
6	Architectural Coating	Architectural Coating	12/9/2030	12/31/2030	5	17	

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6**

**Residential Indoor: 137,295; Residential Outdoor: 45,765; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,682 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	290.00	106.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.6013	0.0000	21.6013	10.3124	0.0000	10.3124			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>21.6013</b>	<b>0.4367</b>	<b>22.0379</b>	<b>10.3124</b>	<b>0.4367</b>	<b>10.7490</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0192	0.3531	1.1000e-003	0.1479	5.3000e-004	0.1484	0.0392	4.9000e-004	0.0397		111.2124	111.2124	2.2300e-003	2.4800e-003	112.0066
<b>Total</b>	<b>0.0461</b>	<b>0.0192</b>	<b>0.3531</b>	<b>1.1000e-003</b>	<b>0.1479</b>	<b>5.3000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>4.9000e-004</b>	<b>0.0397</b>		<b>111.2124</b>	<b>111.2124</b>	<b>2.2300e-003</b>	<b>2.4800e-003</b>	<b>112.0066</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.6013	0.0000	21.6013	10.3124	0.0000	10.3124			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>21.6013</b>	<b>0.4367</b>	<b>22.0379</b>	<b>10.3124</b>	<b>0.4367</b>	<b>10.7490</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0192	0.3531	1.1000e-003	0.1479	5.3000e-004	0.1484	0.0392	4.9000e-004	0.0397		111.2124	111.2124	2.2300e-003	2.4800e-003	112.0066
<b>Total</b>	<b>0.0461</b>	<b>0.0192</b>	<b>0.3531</b>	<b>1.1000e-003</b>	<b>0.1479</b>	<b>5.3000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>4.9000e-004</b>	<b>0.0397</b>		<b>111.2124</b>	<b>111.2124</b>	<b>2.2300e-003</b>	<b>2.4800e-003</b>	<b>112.0066</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					14.4437	0.0000	14.4437	4.2196	0.0000	4.2196			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>14.4437</b>	<b>0.4879</b>	<b>14.9316</b>	<b>4.2196</b>	<b>0.4879</b>	<b>4.7075</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0512	0.0213	0.3924	1.2200e-003	0.1643	5.9000e-004	0.1649	0.0436	5.5000e-004	0.0441		123.5693	123.5693	2.4800e-003	2.7500e-003	124.4518
<b>Total</b>	<b>0.0512</b>	<b>0.0213</b>	<b>0.3924</b>	<b>1.2200e-003</b>	<b>0.1643</b>	<b>5.9000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.5000e-004</b>	<b>0.0441</b>		<b>123.5693</b>	<b>123.5693</b>	<b>2.4800e-003</b>	<b>2.7500e-003</b>	<b>124.4518</b>



CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					14.4437	0.0000	14.4437	4.2196	0.0000	4.2196			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>14.4437</b>	<b>0.4879</b>	<b>14.9316</b>	<b>4.2196</b>	<b>0.4879</b>	<b>4.7075</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0512	0.0213	0.3924	1.2200e-003	0.1643	5.9000e-004	0.1649	0.0436	5.5000e-004	0.0441		123.5693	123.5693	2.4800e-003	2.7500e-003	124.4518
<b>Total</b>	<b>0.0512</b>	<b>0.0213</b>	<b>0.3924</b>	<b>1.2200e-003</b>	<b>0.1643</b>	<b>5.9000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.5000e-004</b>	<b>0.0441</b>		<b>123.5693</b>	<b>123.5693</b>	<b>2.4800e-003</b>	<b>2.7500e-003</b>	<b>124.4518</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1282	5.2996	1.3780	0.0212	0.7157	0.0273	0.7430	0.2059	0.0261	0.2320		2,231.9201	2,231.9201	6.6900e-003	0.3250	2,328.9342
Worker	0.7430	0.3091	5.6892	0.0177	2.3823	8.6000e-003	2.3909	0.6319	7.9200e-003	0.6398		1,791.7551	1,791.7551	0.0360	0.0399	1,804.5513
<b>Total</b>	<b>0.8711</b>	<b>5.6087</b>	<b>7.0672</b>	<b>0.0389</b>	<b>3.0980</b>	<b>0.0359</b>	<b>3.1339</b>	<b>0.8378</b>	<b>0.0341</b>	<b>0.8718</b>		<b>4,023.6752</b>	<b>4,023.6752</b>	<b>0.0427</b>	<b>0.3649</b>	<b>4,133.4855</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1282	5.2996	1.3780	0.0212	0.7157	0.0273	0.7430	0.2059	0.0261	0.2320		2,231.9201	2,231.9201	6.6900e-003	0.3250	2,328.9342
Worker	0.7430	0.3091	5.6892	0.0177	2.3823	8.6000e-003	2.3909	0.6319	7.9200e-003	0.6398		1,791.7551	1,791.7551	0.0360	0.0399	1,804.5513
<b>Total</b>	<b>0.8711</b>	<b>5.6087</b>	<b>7.0672</b>	<b>0.0389</b>	<b>3.0980</b>	<b>0.0359</b>	<b>3.1339</b>	<b>0.8378</b>	<b>0.0341</b>	<b>0.8718</b>		<b>4,023.6752</b>	<b>4,023.6752</b>	<b>0.0427</b>	<b>0.3649</b>	<b>4,133.4855</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.9247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.3092</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0384	0.0160	0.2943	9.2000e-004	0.1232	4.5000e-004	0.1237	0.0327	4.1000e-004	0.0331		92.6770	92.6770	1.8600e-003	2.0600e-003	93.3389
<b>Total</b>	<b>0.0384</b>	<b>0.0160</b>	<b>0.2943</b>	<b>9.2000e-004</b>	<b>0.1232</b>	<b>4.5000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.1000e-004</b>	<b>0.0331</b>		<b>92.6770</b>	<b>92.6770</b>	<b>1.8600e-003</b>	<b>2.0600e-003</b>	<b>93.3389</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.9247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.3092</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0384	0.0160	0.2943	9.2000e-004	0.1232	4.5000e-004	0.1237	0.0327	4.1000e-004	0.0331		92.6770	92.6770	1.8600e-003	2.0600e-003	93.3389
<b>Total</b>	<b>0.0384</b>	<b>0.0160</b>	<b>0.2943</b>	<b>9.2000e-004</b>	<b>0.1232</b>	<b>4.5000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.1000e-004</b>	<b>0.0331</b>		<b>92.6770</b>	<b>92.6770</b>	<b>1.8600e-003</b>	<b>2.0600e-003</b>	<b>93.3389</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	135.4661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>135.5968</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1486	0.0618	1.1378	3.5500e-003	0.4765	1.7200e-003	0.4782	0.1264	1.5800e-003	0.1280		358.3510	358.3510	7.2000e-003	7.9800e-003	360.9103
<b>Total</b>	<b>0.1486</b>	<b>0.0618</b>	<b>1.1378</b>	<b>3.5500e-003</b>	<b>0.4765</b>	<b>1.7200e-003</b>	<b>0.4782</b>	<b>0.1264</b>	<b>1.5800e-003</b>	<b>0.1280</b>		<b>358.3510</b>	<b>358.3510</b>	<b>7.2000e-003</b>	<b>7.9800e-003</b>	<b>360.9103</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	135.4661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>135.5968</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1486	0.0618	1.1378	3.5500e-003	0.4765	1.7200e-003	0.4782	0.1264	1.5800e-003	0.1280		358.3510	358.3510	7.2000e-003	7.9800e-003	360.9103
<b>Total</b>	<b>0.1486</b>	<b>0.0618</b>	<b>1.1378</b>	<b>3.5500e-003</b>	<b>0.4765</b>	<b>1.7200e-003</b>	<b>0.4782</b>	<b>0.1264</b>	<b>1.5800e-003</b>	<b>0.1280</b>		<b>358.3510</b>	<b>358.3510</b>	<b>7.2000e-003</b>	<b>7.9800e-003</b>	<b>360.9103</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0



CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Other Asphalt Surfaces	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252	0.0000	8.1734	8.1734	7.7900e-003	0.0000	8.3681
Unmitigated	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252	0.0000	8.1734	8.1734	7.7900e-003	0.0000	8.3681

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252		8.1734	8.1734	7.7900e-003		8.3681
<b>Total</b>	<b>0.1353</b>	<b>0.0522</b>	<b>4.5230</b>	<b>2.4000e-004</b>		<b>0.0252</b>	<b>0.0252</b>		<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>8.1734</b>	<b>8.1734</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>8.3681</b>

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252		8.1734	8.1734	7.7900e-003		8.3681
<b>Total</b>	<b>0.1353</b>	<b>0.0522</b>	<b>4.5230</b>	<b>2.4000e-004</b>		<b>0.0252</b>	<b>0.0252</b>		<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>8.1734</b>	<b>8.1734</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>8.3681</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 8 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 9 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	38.00	Dwelling Unit	7.35	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	45090	0
tblAreaCoating	Area_Residential_Interior	135270	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2032	12/30/2031
tblConstructionPhase	PhaseEndDate	5/18/2032	11/12/2031
tblConstructionPhase	PhaseEndDate	1/28/2031	12/31/2030
tblConstructionPhase	PhaseEndDate	3/25/2031	2/5/2031
tblConstructionPhase	PhaseEndDate	6/15/2032	12/5/2031
tblConstructionPhase	PhaseEndDate	2/11/2031	1/13/2031
tblConstructionPhase	PhaseStartDate	6/16/2032	12/8/2031
tblConstructionPhase	PhaseStartDate	3/26/2031	2/6/2031
tblConstructionPhase	PhaseStartDate	2/12/2031	1/14/2031
tblConstructionPhase	PhaseStartDate	5/19/2032	11/13/2031
tblConstructionPhase	PhaseStartDate	1/29/2031	1/1/2031
tblConsumerProducts	ROG_EF	2.14E-05	0



CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	20.90	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.30	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.38	7.35
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.48	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	1,560,863.83	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2031	12/31/2030	5	0	
2	Site Preparation	Site Preparation	1/1/2031	1/13/2031	5	9	
3	Grading	Grading	1/14/2031	2/5/2031	5	17	

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2031	11/12/2031	5	200
5	Paving	Paving	11/13/2031	12/5/2031	5	17
6	Architectural Coating	Architectural Coating	12/8/2031	12/30/2031	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 135,270; Residential Outdoor: 45,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.9600e-003</b>	<b>0.0912</b>	<b>0.0456</b>	<b>1.9600e-003</b>	<b>0.0475</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	9.0000e-005	1.4100e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4137	0.4137	1.0000e-005	1.0000e-005	0.4170
<b>Total</b>	<b>1.7000e-004</b>	<b>9.0000e-005</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4137</b>	<b>0.4137</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4170</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.9600e-003</b>	<b>0.0912</b>	<b>0.0456</b>	<b>1.9600e-003</b>	<b>0.0475</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>



CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	9.0000e-005	1.4100e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4137	0.4137	1.0000e-005	1.0000e-005	0.4170
<b>Total</b>	<b>1.7000e-004</b>	<b>9.0000e-005</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4137</b>	<b>0.4137</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4170</b>

**3.4 Grading - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6208	55.6208	2.2500e-003	0.0000	55.6770
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>4.1500e-003</b>	<b>0.1031</b>	<b>0.0333</b>	<b>4.1500e-003</b>	<b>0.0374</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6770</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	1.9000e-004	2.9500e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8682	0.8682	2.0000e-005	2.0000e-005	0.8753
<b>Total</b>	<b>3.6000e-004</b>	<b>1.9000e-004</b>	<b>2.9500e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8682</b>	<b>0.8682</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8753</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6207	55.6207	2.2500e-003	0.0000	55.6769
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>4.1500e-003</b>	<b>0.1031</b>	<b>0.0333</b>	<b>4.1500e-003</b>	<b>0.0374</b>	<b>0.0000</b>	<b>55.6207</b>	<b>55.6207</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6769</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	1.9000e-004	2.9500e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8682	0.8682	2.0000e-005	2.0000e-005	0.8753
<b>Total</b>	<b>3.6000e-004</b>	<b>1.9000e-004</b>	<b>2.9500e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8682</b>	<b>0.8682</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8753</b>

**3.5 Building Construction - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8610	262.8610	0.0106	0.0000	263.1247
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1247</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0304	7.9400e-003	1.2000e-004	3.9100e-003	1.5000e-004	4.0600e-003	1.1300e-003	1.4000e-004	1.2700e-003	0.0000	11.2923	11.2923	3.0000e-005	1.6400e-003	11.7820
Worker	7.0400e-003	3.7000e-003	0.0573	1.8000e-004	0.0260	9.0000e-005	0.0261	6.9100e-003	8.0000e-005	7.0000e-003	0.0000	16.8523	16.8523	3.8000e-004	4.3000e-004	16.9905
<b>Total</b>	<b>7.7400e-003</b>	<b>0.0341</b>	<b>0.0652</b>	<b>3.0000e-004</b>	<b>0.0299</b>	<b>2.4000e-004</b>	<b>0.0301</b>	<b>8.0400e-003</b>	<b>2.2000e-004</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>28.1445</b>	<b>28.1445</b>	<b>4.1000e-004</b>	<b>2.0700e-003</b>	<b>28.7725</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8607	262.8607	0.0106	0.0000	263.1243
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1243</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0304	7.9400e-003	1.2000e-004	3.9100e-003	1.5000e-004	4.0600e-003	1.1300e-003	1.4000e-004	1.2700e-003	0.0000	11.2923	11.2923	3.0000e-005	1.6400e-003	11.7820
Worker	7.0400e-003	3.7000e-003	0.0573	1.8000e-004	0.0260	9.0000e-005	0.0261	6.9100e-003	8.0000e-005	7.0000e-003	0.0000	16.8523	16.8523	3.8000e-004	4.3000e-004	16.9905
<b>Total</b>	<b>7.7400e-003</b>	<b>0.0341</b>	<b>0.0652</b>	<b>3.0000e-004</b>	<b>0.0299</b>	<b>2.4000e-004</b>	<b>0.0301</b>	<b>8.0400e-003</b>	<b>2.2000e-004</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>28.1445</b>	<b>28.1445</b>	<b>4.1000e-004</b>	<b>2.0700e-003</b>	<b>28.7725</b>

**3.6 Paving - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0118</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.4000e-004	2.2100e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6511	0.6511	1.0000e-005	2.0000e-005	0.6565
<b>Total</b>	<b>2.7000e-004</b>	<b>1.4000e-004</b>	<b>2.2100e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6511</b>	<b>0.6511</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6565</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0118</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.4000e-004	2.2100e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6511	0.6511	1.0000e-005	2.0000e-005	0.6565
<b>Total</b>	<b>2.7000e-004</b>	<b>1.4000e-004</b>	<b>2.2100e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6511</b>	<b>0.6511</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6565</b>

**3.7 Architectural Coating - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.0461</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.0300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3039	0.3039	1.0000e-005	1.0000e-005	0.3063
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3039</b>	<b>0.3039</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3063</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.0461</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>



CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.0300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3039	0.3039	1.0000e-005	1.0000e-005	0.3063
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3039</b>	<b>0.3039</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3063</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**





CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 9 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	38.00	Dwelling Unit	7.35	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days  
Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	45090	0
tblAreaCoating	Area_Residential_Interior	135270	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2032	12/30/2031
tblConstructionPhase	PhaseEndDate	5/18/2032	11/12/2031
tblConstructionPhase	PhaseEndDate	1/28/2031	12/31/2030
tblConstructionPhase	PhaseEndDate	3/25/2031	2/5/2031
tblConstructionPhase	PhaseEndDate	6/15/2032	12/5/2031
tblConstructionPhase	PhaseEndDate	2/11/2031	1/13/2031
tblConstructionPhase	PhaseStartDate	6/16/2032	12/8/2031
tblConstructionPhase	PhaseStartDate	3/26/2031	2/6/2031
tblConstructionPhase	PhaseStartDate	2/12/2031	1/14/2031
tblConstructionPhase	PhaseStartDate	5/19/2032	11/13/2031
tblConstructionPhase	PhaseStartDate	1/29/2031	1/1/2031
tblConsumerProducts	ROG_EF	2.14E-05	0

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	20.90	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.30	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.38	7.35
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.48	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	1,560,863.83	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2031	12/31/2030	5	0	
2	Site Preparation	Site Preparation	1/1/2031	1/13/2031	5	9	
3	Grading	Grading	1/14/2031	2/5/2031	5	17	
4	Building Construction	Building Construction	2/6/2031	11/12/2031	5	200	
5	Paving	Paving	11/13/2031	12/5/2031	5	17	
6	Architectural Coating	Architectural Coating	12/8/2031	12/30/2031	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 135,270; Residential Outdoor: 45,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.4367</b>	<b>20.2704</b>	<b>10.1215</b>	<b>0.4367</b>	<b>10.5582</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0429	0.0178	0.3382	1.0800e-003	0.1479	5.0000e-004	0.1484	0.0392	4.6000e-004	0.0397		108.8639	108.8639	2.0600e-003	2.3900e-003	109.6272
<b>Total</b>	<b>0.0429</b>	<b>0.0178</b>	<b>0.3382</b>	<b>1.0800e-003</b>	<b>0.1479</b>	<b>5.0000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>4.6000e-004</b>	<b>0.0397</b>		<b>108.8639</b>	<b>108.8639</b>	<b>2.0600e-003</b>	<b>2.3900e-003</b>	<b>109.6272</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.4367</b>	<b>20.2704</b>	<b>10.1215</b>	<b>0.4367</b>	<b>10.5582</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0429	0.0178	0.3382	1.0800e-003	0.1479	5.0000e-004	0.1484	0.0392	4.6000e-004	0.0397		108.8639	108.8639	2.0600e-003	2.3900e-003	109.6272
<b>Total</b>	<b>0.0429</b>	<b>0.0178</b>	<b>0.3382</b>	<b>1.0800e-003</b>	<b>0.1479</b>	<b>5.0000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>4.6000e-004</b>	<b>0.0397</b>		<b>108.8639</b>	<b>108.8639</b>	<b>2.0600e-003</b>	<b>2.3900e-003</b>	<b>109.6272</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.4879</b>	<b>12.1244</b>	<b>3.9165</b>	<b>0.4879</b>	<b>4.4044</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0477	0.0198	0.3758	1.2000e-003	0.1643	5.5000e-004	0.1649	0.0436	5.1000e-004	0.0441		120.9599	120.9599	2.2900e-003	2.6500e-003	121.8080
<b>Total</b>	<b>0.0477</b>	<b>0.0198</b>	<b>0.3758</b>	<b>1.2000e-003</b>	<b>0.1643</b>	<b>5.5000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.1000e-004</b>	<b>0.0441</b>		<b>120.9599</b>	<b>120.9599</b>	<b>2.2900e-003</b>	<b>2.6500e-003</b>	<b>121.8080</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.4879</b>	<b>12.1244</b>	<b>3.9165</b>	<b>0.4879</b>	<b>4.4044</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0477	0.0198	0.3758	1.2000e-003	0.1643	5.5000e-004	0.1649	0.0436	5.1000e-004	0.0441		120.9599	120.9599	2.2900e-003	2.6500e-003	121.8080
<b>Total</b>	<b>0.0477</b>	<b>0.0198</b>	<b>0.3758</b>	<b>1.2000e-003</b>	<b>0.1643</b>	<b>5.5000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.1000e-004</b>	<b>0.0441</b>		<b>120.9599</b>	<b>120.9599</b>	<b>2.2900e-003</b>	<b>2.6500e-003</b>	<b>121.8080</b>



CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1500e-003	0.2934	0.0778	1.1800e-003	0.0405	1.5000e-003	0.0420	0.0117	1.4300e-003	0.0131		124.4096	124.4096	3.7000e-004	0.0181	129.8012
Worker	0.0787	0.0326	0.6201	1.9700e-003	0.2711	9.1000e-004	0.2720	0.0719	8.4000e-004	0.0728		199.5838	199.5838	3.7800e-003	4.3800e-003	200.9832
<b>Total</b>	<b>0.0858</b>	<b>0.3260</b>	<b>0.6979</b>	<b>3.1500e-003</b>	<b>0.3116</b>	<b>2.4100e-003</b>	<b>0.3140</b>	<b>0.0836</b>	<b>2.2700e-003</b>	<b>0.0858</b>		<b>323.9934</b>	<b>323.9934</b>	<b>4.1500e-003</b>	<b>0.0224</b>	<b>330.7844</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1500e-003	0.2934	0.0778	1.1800e-003	0.0405	1.5000e-003	0.0420	0.0117	1.4300e-003	0.0131		124.4096	124.4096	3.7000e-004	0.0181	129.8012
Worker	0.0787	0.0326	0.6201	1.9700e-003	0.2711	9.1000e-004	0.2720	0.0719	8.4000e-004	0.0728		199.5838	199.5838	3.7800e-003	4.3800e-003	200.9832
<b>Total</b>	<b>0.0858</b>	<b>0.3260</b>	<b>0.6979</b>	<b>3.1500e-003</b>	<b>0.3116</b>	<b>2.4100e-003</b>	<b>0.3140</b>	<b>0.0836</b>	<b>2.2700e-003</b>	<b>0.0858</b>		<b>323.9934</b>	<b>323.9934</b>	<b>4.1500e-003</b>	<b>0.0224</b>	<b>330.7844</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0358	0.0148	0.2819	9.0000e-004	0.1232	4.2000e-004	0.1236	0.0327	3.8000e-004	0.0331		90.7199	90.7199	1.7200e-003	1.9900e-003	91.3560
<b>Total</b>	<b>0.0358</b>	<b>0.0148</b>	<b>0.2819</b>	<b>9.0000e-004</b>	<b>0.1232</b>	<b>4.2000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.8000e-004</b>	<b>0.0331</b>		<b>90.7199</b>	<b>90.7199</b>	<b>1.7200e-003</b>	<b>1.9900e-003</b>	<b>91.3560</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0358	0.0148	0.2819	9.0000e-004	0.1232	4.2000e-004	0.1236	0.0327	3.8000e-004	0.0331		90.7199	90.7199	1.7200e-003	1.9900e-003	91.3560
<b>Total</b>	<b>0.0358</b>	<b>0.0148</b>	<b>0.2819</b>	<b>9.0000e-004</b>	<b>0.1232</b>	<b>4.2000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.8000e-004</b>	<b>0.0331</b>		<b>90.7199</b>	<b>90.7199</b>	<b>1.7200e-003</b>	<b>1.9900e-003</b>	<b>91.3560</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	122.9366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>123.0673</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0167	6.9200e-003	0.1315	4.2000e-004	0.0575	1.9000e-004	0.0577	0.0153	1.8000e-004	0.0154		42.3360	42.3360	8.0000e-004	9.3000e-004	42.6328
<b>Total</b>	<b>0.0167</b>	<b>6.9200e-003</b>	<b>0.1315</b>	<b>4.2000e-004</b>	<b>0.0575</b>	<b>1.9000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>1.8000e-004</b>	<b>0.0154</b>		<b>42.3360</b>	<b>42.3360</b>	<b>8.0000e-004</b>	<b>9.3000e-004</b>	<b>42.6328</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	122.9366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>123.0673</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0167	6.9200e-003	0.1315	4.2000e-004	0.0575	1.9000e-004	0.0577	0.0153	1.8000e-004	0.0154		42.3360	42.3360	8.0000e-004	9.3000e-004	42.6328
<b>Total</b>	<b>0.0167</b>	<b>6.9200e-003</b>	<b>0.1315</b>	<b>4.2000e-004</b>	<b>0.0575</b>	<b>1.9000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>1.8000e-004</b>	<b>0.0154</b>		<b>42.3360</b>	<b>42.3360</b>	<b>8.0000e-004</b>	<b>9.3000e-004</b>	<b>42.6328</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Unmitigated	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247		8.0218	8.0218	7.6400e-003		8.2127
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247		8.0218	8.0218	7.6400e-003		8.2127
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 9 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 10 Unmitigated  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	38.00	Dwelling Unit	7.35	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	45090	0
tblAreaCoating	Area_Residential_Interior	135270	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2033	12/29/2032
tblConstructionPhase	PhaseEndDate	5/18/2033	11/11/2032
tblConstructionPhase	PhaseEndDate	1/28/2032	12/31/2031
tblConstructionPhase	PhaseEndDate	3/24/2032	2/5/2032
tblConstructionPhase	PhaseEndDate	6/15/2033	12/6/2032
tblConstructionPhase	PhaseEndDate	2/11/2032	1/13/2032
tblConstructionPhase	PhaseStartDate	6/16/2033	12/7/2032
tblConstructionPhase	PhaseStartDate	3/25/2032	2/6/2032
tblConstructionPhase	PhaseStartDate	2/12/2032	1/14/2032
tblConstructionPhase	PhaseStartDate	5/19/2033	11/12/2032
tblConstructionPhase	PhaseStartDate	1/29/2032	1/1/2032
tblConsumerProducts	ROG_EF	2.14E-05	0

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	20.90	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.30	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.38	7.35
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.48	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00



CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	1,560,863.83	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2032	12/31/2031	5	0	
2	Site Preparation	Site Preparation	1/1/2032	1/13/2032	5	9	
3	Grading	Grading	1/14/2032	2/5/2032	5	17	

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2032	11/11/2032	5	200
5	Paving	Paving	11/12/2032	12/6/2032	5	17
6	Architectural Coating	Architectural Coating	12/7/2032	12/29/2032	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 135,270; Residential Outdoor: 45,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.9600e-003</b>	<b>0.0912</b>	<b>0.0456</b>	<b>1.9600e-003</b>	<b>0.0475</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.3500e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4057	0.4057	1.0000e-005	1.0000e-005	0.4090
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4057</b>	<b>0.4057</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4090</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.9600e-003</b>	<b>0.0912</b>	<b>0.0456</b>	<b>1.9600e-003</b>	<b>0.0475</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.3500e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4057	0.4057	1.0000e-005	1.0000e-005	0.4090
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4057</b>	<b>0.4057</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4090</b>

**3.4 Grading - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6208	55.6208	2.2500e-003	0.0000	55.6770
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>4.1500e-003</b>	<b>0.1031</b>	<b>0.0333</b>	<b>4.1500e-003</b>	<b>0.0374</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6770</b>



CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	1.8000e-004	2.8400e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8514	0.8514	2.0000e-005	2.0000e-005	0.8583
<b>Total</b>	<b>3.4000e-004</b>	<b>1.8000e-004</b>	<b>2.8400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8514</b>	<b>0.8514</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8583</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6207	55.6207	2.2500e-003	0.0000	55.6769
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>4.1500e-003</b>	<b>0.1031</b>	<b>0.0333</b>	<b>4.1500e-003</b>	<b>0.0374</b>	<b>0.0000</b>	<b>55.6207</b>	<b>55.6207</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6769</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2032**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	1.8000e-004	2.8400e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8514	0.8514	2.0000e-005	2.0000e-005	0.8583
<b>Total</b>	<b>3.4000e-004</b>	<b>1.8000e-004</b>	<b>2.8400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8514</b>	<b>0.8514</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8583</b>

**3.5 Building Construction - 2032**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8610	262.8610	0.0106	0.0000	263.1247
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1247</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0298	7.9400e-003	1.2000e-004	3.9100e-003	1.5000e-004	4.0600e-003	1.1300e-003	1.4000e-004	1.2700e-003	0.0000	11.1317	11.1317	3.0000e-005	1.6100e-003	11.6133
Worker	6.5900e-003	3.4600e-003	0.0552	1.8000e-004	0.0260	9.0000e-005	0.0261	6.9100e-003	8.0000e-005	6.9900e-003	0.0000	16.5275	16.5275	3.5000e-004	4.2000e-004	16.6610
<b>Total</b>	<b>7.2800e-003</b>	<b>0.0332</b>	<b>0.0631</b>	<b>3.0000e-004</b>	<b>0.0299</b>	<b>2.4000e-004</b>	<b>0.0301</b>	<b>8.0400e-003</b>	<b>2.2000e-004</b>	<b>8.2600e-003</b>	<b>0.0000</b>	<b>27.6592</b>	<b>27.6592</b>	<b>3.8000e-004</b>	<b>2.0300e-003</b>	<b>28.2743</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8607	262.8607	0.0106	0.0000	263.1243
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1243</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0298	7.9400e-003	1.2000e-004	3.9100e-003	1.5000e-004	4.0600e-003	1.1300e-003	1.4000e-004	1.2700e-003	0.0000	11.1317	11.1317	3.0000e-005	1.6100e-003	11.6133
Worker	6.5900e-003	3.4600e-003	0.0552	1.8000e-004	0.0260	9.0000e-005	0.0261	6.9100e-003	8.0000e-005	6.9900e-003	0.0000	16.5275	16.5275	3.5000e-004	4.2000e-004	16.6610
<b>Total</b>	<b>7.2800e-003</b>	<b>0.0332</b>	<b>0.0631</b>	<b>3.0000e-004</b>	<b>0.0299</b>	<b>2.4000e-004</b>	<b>0.0301</b>	<b>8.0400e-003</b>	<b>2.2000e-004</b>	<b>8.2600e-003</b>	<b>0.0000</b>	<b>27.6592</b>	<b>27.6592</b>	<b>3.8000e-004</b>	<b>2.0300e-003</b>	<b>28.2743</b>

**3.6 Paving - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0118</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.3000e-004	2.1300e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6386	0.6386	1.0000e-005	2.0000e-005	0.6437
<b>Total</b>	<b>2.5000e-004</b>	<b>1.3000e-004</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6386</b>	<b>0.6386</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6437</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0118</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2032**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.3000e-004	2.1300e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6386	0.6386	1.0000e-005	2.0000e-005	0.6437
<b>Total</b>	<b>2.5000e-004</b>	<b>1.3000e-004</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6386</b>	<b>0.6386</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6437</b>

**3.7 Architectural Coating - 2032**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.0461</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	6.0000e-005	9.9000e-004	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.2980	0.2980	1.0000e-005	1.0000e-005	0.3004
<b>Total</b>	<b>1.2000e-004</b>	<b>6.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.2980</b>	<b>0.2980</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3004</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.0461</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	6.0000e-005	9.9000e-004	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.2980	0.2980	1.0000e-005	1.0000e-005	0.3004
<b>Total</b>	<b>1.2000e-004</b>	<b>6.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.2980</b>	<b>0.2980</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3004</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**





CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 10 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	38.00	Dwelling Unit	7.35	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	45090	0
tblAreaCoating	Area_Residential_Interior	135270	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2033	12/29/2032
tblConstructionPhase	PhaseEndDate	5/18/2033	11/11/2032
tblConstructionPhase	PhaseEndDate	1/28/2032	12/31/2031
tblConstructionPhase	PhaseEndDate	3/24/2032	2/5/2032
tblConstructionPhase	PhaseEndDate	6/15/2033	12/6/2032
tblConstructionPhase	PhaseEndDate	2/11/2032	1/13/2032
tblConstructionPhase	PhaseStartDate	6/16/2033	12/7/2032
tblConstructionPhase	PhaseStartDate	3/25/2032	2/6/2032
tblConstructionPhase	PhaseStartDate	2/12/2032	1/14/2032
tblConstructionPhase	PhaseStartDate	5/19/2033	11/12/2032
tblConstructionPhase	PhaseStartDate	1/29/2032	1/1/2032
tblConsumerProducts	ROG_EF	2.14E-05	0

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	20.90	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.30	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.38	7.35
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.48	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	1,560,863.83	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2032	12/31/2031	5	0	
2	Site Preparation	Site Preparation	1/1/2032	1/13/2032	5	9	
3	Grading	Grading	1/14/2032	2/5/2032	5	17	
4	Building Construction	Building Construction	2/6/2032	11/11/2032	5	200	
5	Paving	Paving	11/12/2032	12/6/2032	5	17	
6	Architectural Coating	Architectural Coating	12/7/2032	12/29/2032	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 135,270; Residential Outdoor: 45,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.4367</b>	<b>20.2704</b>	<b>10.1215</b>	<b>0.4367</b>	<b>10.5582</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0401	0.0166	0.3255	1.0600e-003	0.1479	4.7000e-004	0.1483	0.0392	4.3000e-004	0.0397		106.7733	106.7733	1.9100e-003	2.3100e-003	107.5109
<b>Total</b>	<b>0.0401</b>	<b>0.0166</b>	<b>0.3255</b>	<b>1.0600e-003</b>	<b>0.1479</b>	<b>4.7000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>4.3000e-004</b>	<b>0.0397</b>		<b>106.7733</b>	<b>106.7733</b>	<b>1.9100e-003</b>	<b>2.3100e-003</b>	<b>107.5109</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.4367</b>	<b>20.2704</b>	<b>10.1215</b>	<b>0.4367</b>	<b>10.5582</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0401	0.0166	0.3255	1.0600e-003	0.1479	4.7000e-004	0.1483	0.0392	4.3000e-004	0.0397		106.7733	106.7733	1.9100e-003	2.3100e-003	107.5109
<b>Total</b>	<b>0.0401</b>	<b>0.0166</b>	<b>0.3255</b>	<b>1.0600e-003</b>	<b>0.1479</b>	<b>4.7000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>4.3000e-004</b>	<b>0.0397</b>		<b>106.7733</b>	<b>106.7733</b>	<b>1.9100e-003</b>	<b>2.3100e-003</b>	<b>107.5109</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.4879</b>	<b>12.1244</b>	<b>3.9165</b>	<b>0.4879</b>	<b>4.4044</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0185	0.3617	1.1700e-003	0.1643	5.2000e-004	0.1648	0.0436	4.8000e-004	0.0441		118.6370	118.6370	2.1200e-003	2.5700e-003	119.4565
<b>Total</b>	<b>0.0446</b>	<b>0.0185</b>	<b>0.3617</b>	<b>1.1700e-003</b>	<b>0.1643</b>	<b>5.2000e-004</b>	<b>0.1648</b>	<b>0.0436</b>	<b>4.8000e-004</b>	<b>0.0441</b>		<b>118.6370</b>	<b>118.6370</b>	<b>2.1200e-003</b>	<b>2.5700e-003</b>	<b>119.4565</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.4879</b>	<b>12.1244</b>	<b>3.9165</b>	<b>0.4879</b>	<b>4.4044</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0185	0.3617	1.1700e-003	0.1643	5.2000e-004	0.1648	0.0436	4.8000e-004	0.0441		118.6370	118.6370	2.1200e-003	2.5700e-003	119.4565
<b>Total</b>	<b>0.0446</b>	<b>0.0185</b>	<b>0.3617</b>	<b>1.1700e-003</b>	<b>0.1643</b>	<b>5.2000e-004</b>	<b>0.1648</b>	<b>0.0436</b>	<b>4.8000e-004</b>	<b>0.0441</b>		<b>118.6370</b>	<b>118.6370</b>	<b>2.1200e-003</b>	<b>2.5700e-003</b>	<b>119.4565</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0700e-003	0.2872	0.0778	1.1600e-003	0.0405	1.4500e-003	0.0420	0.0117	1.3900e-003	0.0130		122.6374	122.6374	3.7000e-004	0.0178	127.9390
Worker	0.0736	0.0305	0.5968	1.9400e-003	0.2711	8.5000e-004	0.2719	0.0719	7.9000e-004	0.0727		195.7511	195.7511	3.5100e-003	4.2400e-003	197.1033
<b>Total</b>	<b>0.0807</b>	<b>0.3177</b>	<b>0.6746</b>	<b>3.1000e-003</b>	<b>0.3116</b>	<b>2.3000e-003</b>	<b>0.3139</b>	<b>0.0836</b>	<b>2.1800e-003</b>	<b>0.0857</b>		<b>318.3885</b>	<b>318.3885</b>	<b>3.8800e-003</b>	<b>0.0220</b>	<b>325.0423</b>



CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0700e-003	0.2872	0.0778	1.1600e-003	0.0405	1.4500e-003	0.0420	0.0117	1.3900e-003	0.0130		122.6374	122.6374	3.7000e-004	0.0178	127.9390
Worker	0.0736	0.0305	0.5968	1.9400e-003	0.2711	8.5000e-004	0.2719	0.0719	7.9000e-004	0.0727		195.7511	195.7511	3.5100e-003	4.2400e-003	197.1033
<b>Total</b>	<b>0.0807</b>	<b>0.3177</b>	<b>0.6746</b>	<b>3.1000e-003</b>	<b>0.3116</b>	<b>2.3000e-003</b>	<b>0.3139</b>	<b>0.0836</b>	<b>2.1800e-003</b>	<b>0.0857</b>		<b>318.3885</b>	<b>318.3885</b>	<b>3.8800e-003</b>	<b>0.0220</b>	<b>325.0423</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0335	0.0139	0.2713	8.8000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		88.9778	88.9778	1.5900e-003	1.9300e-003	89.5924
<b>Total</b>	<b>0.0335</b>	<b>0.0139</b>	<b>0.2713</b>	<b>8.8000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>88.9778</b>	<b>88.9778</b>	<b>1.5900e-003</b>	<b>1.9300e-003</b>	<b>89.5924</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0335	0.0139	0.2713	8.8000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		88.9778	88.9778	1.5900e-003	1.9300e-003	89.5924
<b>Total</b>	<b>0.0335</b>	<b>0.0139</b>	<b>0.2713</b>	<b>8.8000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>88.9778</b>	<b>88.9778</b>	<b>1.5900e-003</b>	<b>1.9300e-003</b>	<b>89.5924</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	122.9366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>123.0673</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0156	6.4700e-003	0.1266	4.1000e-004	0.0575	1.8000e-004	0.0577	0.0153	1.7000e-004	0.0154		41.5230	41.5230	7.4000e-004	9.0000e-004	41.8098
<b>Total</b>	<b>0.0156</b>	<b>6.4700e-003</b>	<b>0.1266</b>	<b>4.1000e-004</b>	<b>0.0575</b>	<b>1.8000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>1.7000e-004</b>	<b>0.0154</b>		<b>41.5230</b>	<b>41.5230</b>	<b>7.4000e-004</b>	<b>9.0000e-004</b>	<b>41.8098</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	122.9366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>123.0673</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0156	6.4700e-003	0.1266	4.1000e-004	0.0575	1.8000e-004	0.0577	0.0153	1.7000e-004	0.0154		41.5230	41.5230	7.4000e-004	9.0000e-004	41.8098
<b>Total</b>	<b>0.0156</b>	<b>6.4700e-003</b>	<b>0.1266</b>	<b>4.1000e-004</b>	<b>0.0575</b>	<b>1.8000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>1.7000e-004</b>	<b>0.0154</b>		<b>41.5230</b>	<b>41.5230</b>	<b>7.4000e-004</b>	<b>9.0000e-004</b>	<b>41.8098</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**



CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Unmitigated	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247		8.0218	8.0218	7.6400e-003		8.2127
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247		8.0218	8.0218	7.6400e-003		8.2127
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 10 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 12 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>		2035	
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	51300	0
tblAreaCoating	Area_Residential_Interior	153900	0
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/22/2035	12/29/2034
tblConstructionPhase	PhaseEndDate	1/3/2035	11/13/2034
tblConstructionPhase	PhaseEndDate	1/27/2034	1/1/2034
tblConstructionPhase	PhaseEndDate	2/15/2034	2/6/2034
tblConstructionPhase	PhaseEndDate	1/29/2035	12/6/2034
tblConstructionPhase	PhaseEndDate	2/3/2034	1/12/2034
tblConstructionPhase	PhaseStartDate	1/30/2035	12/7/2034

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	2/16/2034	2/7/2034
tblConstructionPhase	PhaseStartDate	2/4/2034	1/13/2034
tblConstructionPhase	PhaseStartDate	1/4/2035	11/14/2034
tblConstructionPhase	PhaseStartDate	1/28/2034	1/2/2034
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberWood	26.60	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**2.0 Emissions Summary**

**2.1 Overall Construction**

Unmitigated Construction

Year	tons/yr																MT/yr
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
2034	1.3669	1.0250	2.0425	4.3000e-003	0.1929	0.0214	0.2144	0.0877	0.0214	0.1091	0.0000	369.5643	369.5643	0.0140	2.8100e-003	370.7519	
Maximum	1.3669	1.0250	2.0425	4.3000e-003	0.1929	0.0214	0.2144	0.0877	0.0214	0.1091	0.0000	369.5643	369.5643	0.0140	2.8100e-003	370.7519	

Mitigated Construction

Year	tons/yr																MT/yr
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
2034	1.3669	1.0250	2.0425	4.3000e-003	0.1929	0.0214	0.2144	0.0877	0.0214	0.1091	0.0000	369.5639	369.5639	0.0140	2.8100e-003	370.7515	
Maximum	1.3669	1.0250	2.0425	4.3000e-003	0.1929	0.0214	0.2144	0.0877	0.0214	0.1091	0.0000	369.5639	369.5639	0.0140	2.8100e-003	370.7515	





CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2034	1/1/2034	5	0	
2	Site Preparation	Site Preparation	1/2/2034	1/12/2034	5	9	
3	Grading	Grading	1/13/2034	2/6/2034	5	17	

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/7/2034	11/13/2034	5	200
5	Paving	Paving	11/14/2034	12/6/2034	5	17
6	Architectural Coating	Architectural Coating	12/7/2034	12/29/2034	5	17

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37





CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.3 Site Preparation - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.9600e-003</b>	<b>0.0872</b>	<b>0.0451</b>	<b>1.9600e-003</b>	<b>0.0471</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	8.0000e-005	1.2700e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3924	0.3924	1.0000e-005	1.0000e-005	0.3955
<b>Total</b>	<b>1.4000e-004</b>	<b>8.0000e-005</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3924</b>	<b>0.3924</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3955</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.9600e-003</b>	<b>0.0872</b>	<b>0.0451</b>	<b>1.9600e-003</b>	<b>0.0471</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	8.0000e-005	1.2700e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3924	0.3924	1.0000e-005	1.0000e-005	0.3955
<b>Total</b>	<b>1.4000e-004</b>	<b>8.0000e-005</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3924</b>	<b>0.3924</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3955</b>

**3.4 Grading - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.0659	0.1228	3.1000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	26.5239	26.5239	1.1100e-003	0.0000	26.5516
<b>Total</b>	<b>0.0138</b>	<b>0.0659</b>	<b>0.1228</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.9900e-003</b>	<b>0.0574</b>	<b>0.0286</b>	<b>1.9900e-003</b>	<b>0.0306</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>26.5516</b>



CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.2000e-004	2.0000e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6176	0.6176	1.0000e-005	2.0000e-005	0.6225
<b>Total</b>	<b>2.2000e-004</b>	<b>1.2000e-004</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6176</b>	<b>0.6176</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6225</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.0659	0.1228	3.1000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	26.5239	26.5239	1.1100e-003	0.0000	26.5516
<b>Total</b>	<b>0.0138</b>	<b>0.0659</b>	<b>0.1228</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.9900e-003</b>	<b>0.0574</b>	<b>0.0286</b>	<b>1.9900e-003</b>	<b>0.0306</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>26.5516</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.2000e-004	2.0000e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6176	0.6176	1.0000e-005	2.0000e-005	0.6225
<b>Total</b>	<b>2.2000e-004</b>	<b>1.2000e-004</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6176</b>	<b>0.6176</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6225</b>

**3.5 Building Construction - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8610	262.8610	0.0106	0.0000	263.1247
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1247</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0383	0.0106	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.8000e-004	1.6800e-003	0.0000	14.4679	14.4679	4.0000e-005	2.0900e-003	15.0912
Worker	9.7000e-003	5.1500e-003	0.0861	2.9000e-004	0.0433	1.3000e-004	0.0434	0.0115	1.2000e-004	0.0116	0.0000	26.6412	26.6412	5.1000e-004	6.6000e-004	26.8517
<b>Total</b>	<b>0.0106</b>	<b>0.0434</b>	<b>0.0967</b>	<b>4.4000e-004</b>	<b>0.0485</b>	<b>3.1000e-004</b>	<b>0.0488</b>	<b>0.0130</b>	<b>3.0000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>41.1091</b>	<b>41.1091</b>	<b>5.5000e-004</b>	<b>2.7500e-003</b>	<b>41.9429</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8607	262.8607	0.0106	0.0000	263.1243
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1243</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2034**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0383	0.0106	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.8000e-004	1.6800e-003	0.0000	14.4679	14.4679	4.0000e-005	2.0900e-003	15.0912
Worker	9.7000e-003	5.1500e-003	0.0861	2.9000e-004	0.0433	1.3000e-004	0.0434	0.0115	1.2000e-004	0.0116	0.0000	26.6412	26.6412	5.1000e-004	6.6000e-004	26.8517
<b>Total</b>	<b>0.0106</b>	<b>0.0434</b>	<b>0.0967</b>	<b>4.4000e-004</b>	<b>0.0485</b>	<b>3.1000e-004</b>	<b>0.0488</b>	<b>0.0130</b>	<b>3.0000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>41.1091</b>	<b>41.1091</b>	<b>5.5000e-004</b>	<b>2.7500e-003</b>	<b>41.9429</b>

**3.6 Paving - 2034**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8100e-003	0.0530	0.1113	2.0000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	16.6117	16.6117	8.0000e-004	0.0000	16.6316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.8100e-003</b>	<b>0.0530</b>	<b>0.1113</b>	<b>2.0000e-004</b>		<b>2.1500e-003</b>	<b>2.1500e-003</b>		<b>2.1500e-003</b>	<b>2.1500e-003</b>	<b>0.0000</b>	<b>16.6117</b>	<b>16.6117</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>16.6316</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.6000e-004	2.6600e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8235	0.8235	2.0000e-005	2.0000e-005	0.8300
<b>Total</b>	<b>3.0000e-004</b>	<b>1.6000e-004</b>	<b>2.6600e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8235</b>	<b>0.8235</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8300</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8100e-003	0.0530	0.1113	2.0000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	16.6116	16.6116	8.0000e-004	0.0000	16.6316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.8100e-003</b>	<b>0.0530</b>	<b>0.1113</b>	<b>2.0000e-004</b>		<b>2.1500e-003</b>	<b>2.1500e-003</b>		<b>2.1500e-003</b>	<b>2.1500e-003</b>	<b>0.0000</b>	<b>16.6116</b>	<b>16.6116</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>16.6316</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.6000e-004	2.6600e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8235	0.8235	2.0000e-005	2.0000e-005	0.8300
<b>Total</b>	<b>3.0000e-004</b>	<b>1.6000e-004</b>	<b>2.6600e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8235</b>	<b>0.8235</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8300</b>

**3.7 Architectural Coating - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1889					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.1900</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	9.0000e-005	1.4600e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4529	0.4529	1.0000e-005	1.0000e-005	0.4565
<b>Total</b>	<b>1.6000e-004</b>	<b>9.0000e-005</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4529</b>	<b>0.4529</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4565</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1889					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.1900</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	9.0000e-005	1.4600e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4529	0.4529	1.0000e-005	1.0000e-005	0.4565
<b>Total</b>	<b>1.6000e-004</b>	<b>9.0000e-005</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4529</b>	<b>0.4529</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4565</b>



CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000



EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County, Annual

8.2 Waste by Land Use

Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
0	0.0000	0.0000	0.0000	0.0000
Land Use				
tons				
MT/yr				
0	0.0000	0.0000	0.0000	0.0000
Apartments Low Rise				
Total				
	0.0000	0.0000	0.0000	0.0000

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
0	0.0000	0.0000	0.0000	0.0000
Land Use				
tons				
MT/yr				
0	0.0000	0.0000	0.0000	0.0000
Apartments Low Rise				
Total				
	0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 12 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>		2035	
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	51300	0
tblAreaCoating	Area_Residential_Interior	153900	0
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/22/2035	12/29/2034
tblConstructionPhase	PhaseEndDate	1/3/2035	11/13/2034
tblConstructionPhase	PhaseEndDate	1/27/2034	1/1/2034
tblConstructionPhase	PhaseEndDate	2/15/2034	2/6/2034
tblConstructionPhase	PhaseEndDate	1/29/2035	12/6/2034
tblConstructionPhase	PhaseEndDate	2/3/2034	1/12/2034
tblConstructionPhase	PhaseStartDate	1/30/2035	12/7/2034

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	2/16/2034	2/7/2034
tblConstructionPhase	PhaseStartDate	2/4/2034	1/13/2034
tblConstructionPhase	PhaseStartDate	1/4/2035	11/14/2034
tblConstructionPhase	PhaseStartDate	1/28/2034	1/2/2034
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberWood	26.60	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

CEPHSP Construction Year 12 Unmitigated - El Dorado-Mountain County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	lb/day														
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2034	140.0203	13.6828	17.1928	0.0476	19.0979	0.4371	10.0653	0.4370	10.5024	0.0000	4,513.036	4,513.036	0.2193	0.0297	4,519.174
Maximum	140.0203	13.6828	17.1928	0.0476	19.0979	0.4371	10.0653	0.4370	10.5024	0.0000	4,513.036	4,513.036	0.2193	0.0297	4,519.174

Mitigated Construction

Year	lb/day														
ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2034	140.0203	13.6828	17.1928	0.0476	19.0979	0.4371	10.0653	0.4370	10.5024	0.0000	4,513.036	4,513.036	0.2193	0.0297	4,519.174
Maximum	140.0203	13.6828	17.1928	0.0476	19.0979	0.4371	10.0653	0.4370	10.5024	0.0000	4,513.036	4,513.036	0.2193	0.0297	4,519.174



CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>



CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2034	1/1/2034	5	0	
2	Site Preparation	Site Preparation	1/2/2034	1/12/2034	5	9	
3	Grading	Grading	1/13/2034	2/6/2034	5	17	
4	Building Construction	Building Construction	2/7/2034	11/13/2034	5	200	
5	Paving	Paving	11/14/2034	12/6/2034	5	17	
6	Architectural Coating	Architectural Coating	12/7/2034	12/29/2034	5	17	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**





CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.4367</b>	<b>19.3867</b>	<b>10.0261</b>	<b>0.4367</b>	<b>10.4628</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0354	0.0149	0.3050	1.0200e-003	0.1479	4.1000e-004	0.1483	0.0392	3.8000e-004	0.0396		103.2830	103.2830	1.6600e-003	2.2000e-003	103.9808
<b>Total</b>	<b>0.0354</b>	<b>0.0149</b>	<b>0.3050</b>	<b>1.0200e-003</b>	<b>0.1479</b>	<b>4.1000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.8000e-004</b>	<b>0.0396</b>		<b>103.2830</b>	<b>103.2830</b>	<b>1.6600e-003</b>	<b>2.2000e-003</b>	<b>103.9808</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.4367</b>	<b>19.3867</b>	<b>10.0261</b>	<b>0.4367</b>	<b>10.4628</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0354	0.0149	0.3050	1.0200e-003	0.1479	4.1000e-004	0.1483	0.0392	3.8000e-004	0.0396		103.2830	103.2830	1.6600e-003	2.2000e-003	103.9808
<b>Total</b>	<b>0.0354</b>	<b>0.0149</b>	<b>0.3050</b>	<b>1.0200e-003</b>	<b>0.1479</b>	<b>4.1000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.8000e-004</b>	<b>0.0396</b>		<b>103.2830</b>	<b>103.2830</b>	<b>1.6600e-003</b>	<b>2.2000e-003</b>	<b>103.9808</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.2340</b>	<b>6.7552</b>	<b>3.3641</b>	<b>0.2340</b>	<b>3.5981</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0124	0.2541	8.5000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		86.0692	86.0692	1.3900e-003	1.8400e-003	86.6507
<b>Total</b>	<b>0.0295</b>	<b>0.0124</b>	<b>0.2541</b>	<b>8.5000e-004</b>	<b>0.1232</b>	<b>3.4000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.1000e-004</b>	<b>0.0330</b>		<b>86.0692</b>	<b>86.0692</b>	<b>1.3900e-003</b>	<b>1.8400e-003</b>	<b>86.6507</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340	0.0000	3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.2340</b>	<b>6.7552</b>	<b>3.3641</b>	<b>0.2340</b>	<b>3.5981</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0124	0.2541	8.5000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		86.0692	86.0692	1.3900e-003	1.8400e-003	86.6507
<b>Total</b>	<b>0.0295</b>	<b>0.0124</b>	<b>0.2541</b>	<b>8.5000e-004</b>	<b>0.1232</b>	<b>3.4000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.1000e-004</b>	<b>0.0330</b>		<b>86.0692</b>	<b>86.0692</b>	<b>1.3900e-003</b>	<b>1.8400e-003</b>	<b>86.6507</b>



CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3100e-003	0.3694	0.1040	1.5100e-003	0.0540	1.8400e-003	0.0559	0.0155	1.7600e-003	0.0173		159.3832	159.3832	4.9000e-004	0.0230	166.2444
Worker	0.1082	0.0454	0.9318	3.1200e-003	0.4518	1.2500e-003	0.4531	0.1198	1.1500e-003	0.1210		315.5870	315.5870	5.0800e-003	6.7300e-003	317.7192
<b>Total</b>	<b>0.1175</b>	<b>0.4148</b>	<b>1.0358</b>	<b>4.6300e-003</b>	<b>0.5058</b>	<b>3.0900e-003</b>	<b>0.5089</b>	<b>0.1354</b>	<b>2.9100e-003</b>	<b>0.1383</b>		<b>474.9701</b>	<b>474.9701</b>	<b>5.5700e-003</b>	<b>0.0297</b>	<b>483.9636</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3100e-003	0.3694	0.1040	1.5100e-003	0.0540	1.8400e-003	0.0559	0.0155	1.7600e-003	0.0173		159.3832	159.3832	4.9000e-004	0.0230	166.2444
Worker	0.1082	0.0454	0.9318	3.1200e-003	0.4518	1.2500e-003	0.4531	0.1198	1.1500e-003	0.1210		315.5870	315.5870	5.0800e-003	6.7300e-003	317.7192
<b>Total</b>	<b>0.1175</b>	<b>0.4148</b>	<b>1.0358</b>	<b>4.6300e-003</b>	<b>0.5058</b>	<b>3.0900e-003</b>	<b>0.5089</b>	<b>0.1354</b>	<b>2.9100e-003</b>	<b>0.1383</b>		<b>474.9701</b>	<b>474.9701</b>	<b>5.5700e-003</b>	<b>0.0297</b>	<b>483.9636</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528		2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1543</b>	<b>6.2343</b>	<b>13.0935</b>	<b>0.0230</b>		<b>0.2528</b>	<b>0.2528</b>		<b>0.2528</b>	<b>0.2528</b>		<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.1035</b>		<b>2,156.8468</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0393	0.0165	0.3388	1.1400e-003	0.1643	4.6000e-004	0.1648	0.0436	4.2000e-004	0.0440		114.7589	114.7589	1.8500e-003	2.4500e-003	115.5343
<b>Total</b>	<b>0.0393</b>	<b>0.0165</b>	<b>0.3388</b>	<b>1.1400e-003</b>	<b>0.1643</b>	<b>4.6000e-004</b>	<b>0.1648</b>	<b>0.0436</b>	<b>4.2000e-004</b>	<b>0.0440</b>		<b>114.7589</b>	<b>114.7589</b>	<b>1.8500e-003</b>	<b>2.4500e-003</b>	<b>115.5343</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528	0.0000	2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1543</b>	<b>6.2343</b>	<b>13.0935</b>	<b>0.0230</b>		<b>0.2528</b>	<b>0.2528</b>		<b>0.2528</b>	<b>0.2528</b>	<b>0.0000</b>	<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.1035</b>		<b>2,156.8468</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0393	0.0165	0.3388	1.1400e-003	0.1643	4.6000e-004	0.1648	0.0436	4.2000e-004	0.0440		114.7589	114.7589	1.8500e-003	2.4500e-003	115.5343
<b>Total</b>	<b>0.0393</b>	<b>0.0165</b>	<b>0.3388</b>	<b>1.1400e-003</b>	<b>0.1643</b>	<b>4.6000e-004</b>	<b>0.1648</b>	<b>0.0436</b>	<b>4.2000e-004</b>	<b>0.0440</b>		<b>114.7589</b>	<b>114.7589</b>	<b>1.8500e-003</b>	<b>2.4500e-003</b>	<b>115.5343</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	139.8679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>139.9987</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	9.0900e-003	0.1864	6.2000e-004	0.0904	2.5000e-004	0.0906	0.0240	2.3000e-004	0.0242		63.1174	63.1174	1.0200e-003	1.3500e-003	63.5438
<b>Total</b>	<b>0.0216</b>	<b>9.0900e-003</b>	<b>0.1864</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.5000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.3000e-004</b>	<b>0.0242</b>		<b>63.1174</b>	<b>63.1174</b>	<b>1.0200e-003</b>	<b>1.3500e-003</b>	<b>63.5438</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	139.8679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>139.9987</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	9.0900e-003	0.1864	6.2000e-004	0.0904	2.5000e-004	0.0906	0.0240	2.3000e-004	0.0242		63.1174	63.1174	1.0200e-003	1.3500e-003	63.5438
<b>Total</b>	<b>0.0216</b>	<b>9.0900e-003</b>	<b>0.1864</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.5000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.3000e-004</b>	<b>0.0242</b>		<b>63.1174</b>	<b>63.1174</b>	<b>1.0200e-003</b>	<b>1.3500e-003</b>	<b>63.5438</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Unmitigated	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2900	11.2900	0.0108		11.5587
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2900	11.2900	0.0108		11.5587
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

CEDHSP Construction Year 12 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 13 Unmitigated  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	51300	0
tblAreaCoating	Area_Residential_Interior	153900	0
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/21/2036	12/28/2035
tblConstructionPhase	PhaseEndDate	1/2/2036	11/12/2035
tblConstructionPhase	PhaseEndDate	1/26/2035	12/31/2034
tblConstructionPhase	PhaseEndDate	2/14/2035	2/5/2035
tblConstructionPhase	PhaseEndDate	1/28/2036	12/5/2035
tblConstructionPhase	PhaseEndDate	2/2/2035	1/11/2035
tblConstructionPhase	PhaseStartDate	1/29/2036	12/6/2035

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	2/15/2035	2/6/2035
tblConstructionPhase	PhaseStartDate	2/3/2035	1/12/2035
tblConstructionPhase	PhaseStartDate	1/3/2036	11/13/2035
tblConstructionPhase	PhaseStartDate	1/27/2035	1/1/2035
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberWood	26.60	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County, Annual

2.0 Emissions Summary

2.1 Overall Construction  
Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2035	1.3529	0.9024	2.0334	4.3000e-003	0.1929	0.0134	0.2063	0.0877	0.0134	0.1011	0.0000	368.9917	368.9917	0.0129	2.7700e-003	370.1382
Maximum	1.3529	0.9024	2.0334	4.3000e-003	0.1929	0.0134	0.2063	0.0877	0.0134	0.1011	0.0000	368.9917	368.9917	0.0129	2.7700e-003	370.1382
tons/yr											MT/yr					

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2035	1.3529	0.9024	2.0334	4.3000e-003	0.1929	0.0134	0.2063	0.0877	0.0134	0.1011	0.0000	368.9913	368.9913	0.0129	2.7700e-003	370.1378
Maximum	1.3529	0.9024	2.0334	4.3000e-003	0.1929	0.0134	0.2063	0.0877	0.0134	0.1011	0.0000	368.9913	368.9913	0.0129	2.7700e-003	370.1378
tons/yr											MT/yr					





CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2035	12/31/2034	5	0	
2	Site Preparation	Site Preparation	1/1/2035	1/11/2035	5	9	
3	Grading	Grading	1/12/2035	2/5/2035	5	17	

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2035	11/12/2035	5	200
5	Paving	Paving	11/13/2035	12/5/2035	5	17
6	Architectural Coating	Architectural Coating	12/6/2035	12/28/2035	5	17

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0214
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.3100e-003</b>	<b>0.0866</b>	<b>0.0451</b>	<b>1.3100e-003</b>	<b>0.0464</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0214</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0213
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.3100e-003</b>	<b>0.0866</b>	<b>0.0451</b>	<b>1.3100e-003</b>	<b>0.0464</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0213</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

**3.4 Grading - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0509	0.1218	3.1000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	26.5239	26.5239	9.9000e-004	0.0000	26.5486
<b>Total</b>	<b>0.0124</b>	<b>0.0509</b>	<b>0.1218</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.3200e-003</b>	<b>0.0568</b>	<b>0.0286</b>	<b>1.3200e-003</b>	<b>0.0299</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>26.5486</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0509	0.1218	3.1000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	26.5239	26.5239	9.9000e-004	0.0000	26.5486
<b>Total</b>	<b>0.0124</b>	<b>0.0509</b>	<b>0.1218</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.3200e-003</b>	<b>0.0568</b>	<b>0.0286</b>	<b>1.3200e-003</b>	<b>0.0299</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>26.5486</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

**3.5 Building Construction - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8610	262.8610	9.7900e-003	0.0000	263.1058
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1058</b>



CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0377	0.0107	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.7000e-004	1.6800e-003	0.0000	14.3011	14.3011	4.0000e-005	2.0600e-003	14.9162
Worker	9.1400e-003	4.9200e-003	0.0837	2.9000e-004	0.0433	1.2000e-004	0.0434	0.0115	1.1000e-004	0.0116	0.0000	26.2674	26.2674	4.8000e-004	6.5000e-004	26.4734
<b>Total</b>	<b>0.0101</b>	<b>0.0426</b>	<b>0.0944</b>	<b>4.4000e-004</b>	<b>0.0485</b>	<b>3.0000e-004</b>	<b>0.0488</b>	<b>0.0130</b>	<b>2.8000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>40.5685</b>	<b>40.5685</b>	<b>5.2000e-004</b>	<b>2.7100e-003</b>	<b>41.3895</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8607	262.8607	9.7900e-003	0.0000	263.1055
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1055</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2035**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0377	0.0107	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.7000e-004	1.6800e-003	0.0000	14.3011	14.3011	4.0000e-005	2.0600e-003	14.9162
Worker	9.1400e-003	4.9200e-003	0.0837	2.9000e-004	0.0433	1.2000e-004	0.0434	0.0115	1.1000e-004	0.0116	0.0000	26.2674	26.2674	4.8000e-004	6.5000e-004	26.4734
<b>Total</b>	<b>0.0101</b>	<b>0.0426</b>	<b>0.0944</b>	<b>4.4000e-004</b>	<b>0.0485</b>	<b>3.0000e-004</b>	<b>0.0488</b>	<b>0.0130</b>	<b>2.8000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>40.5685</b>	<b>40.5685</b>	<b>5.2000e-004</b>	<b>2.7100e-003</b>	<b>41.3895</b>

**3.6 Paving - 2035**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4100e-003	0.0403	0.1111	2.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	16.6117	16.6117	6.8000e-004	0.0000	16.6287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4100e-003</b>	<b>0.0403</b>	<b>0.1111</b>	<b>2.0000e-004</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>16.6117</b>	<b>16.6117</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.6287</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4100e-003	0.0403	0.1111	2.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	16.6116	16.6116	6.8000e-004	0.0000	16.6287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4100e-003</b>	<b>0.0403</b>	<b>0.1111</b>	<b>2.0000e-004</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>16.6116</b>	<b>16.6116</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.6287</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

**3.7 Architectural Coating - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1889					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>1.1899</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2035**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.4200e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4466	0.4466	1.0000e-005	1.0000e-005	0.4501
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4466</b>	<b>0.4466</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4501</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1889					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>1.1899</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2035**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.4200e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4466	0.4466	1.0000e-005	1.0000e-005	0.4501
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4466</b>	<b>0.4466</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4501</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000





CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000



CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**CEDHSP Construction Year 13 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	51300	0
tblAreaCoating	Area_Residential_Interior	153900	0
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/21/2036	12/28/2035
tblConstructionPhase	PhaseEndDate	1/2/2036	11/12/2035
tblConstructionPhase	PhaseEndDate	1/26/2035	12/31/2034
tblConstructionPhase	PhaseEndDate	2/14/2035	2/5/2035
tblConstructionPhase	PhaseEndDate	1/28/2036	12/5/2035
tblConstructionPhase	PhaseEndDate	2/2/2035	1/11/2035
tblConstructionPhase	PhaseStartDate	1/29/2036	12/6/2035

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	PhaseStartDate	2/15/2035	2/6/2035
tblConstructionPhase	PhaseStartDate	2/3/2035	1/12/2035
tblConstructionPhase	PhaseStartDate	1/3/2036	11/13/2035
tblConstructionPhase	PhaseStartDate	1/27/2035	1/1/2035
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberWood	26.60	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

CEPHSP Construction Year 13 Unmitigated - El Dorado-Mountain County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2035	140.0064	10.1542	17.1495	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,521.685	4,521.685	0.1905	0.0293	4,527.091
Maximum	140.0064	10.1542	17.1495	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,521.685	4,521.685	0.1905	0.0293	4,527.091

#### Mitigated Construction

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2035	140.0064	10.1542	17.1495	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,521.685	4,521.685	0.1905	0.0293	4,527.091
Maximum	140.0064	10.1542	17.1495	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,521.685	4,521.685	0.1905	0.0293	4,527.091



CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2035	12/31/2034	5	0	
2	Site Preparation	Site Preparation	1/1/2035	1/11/2035	5	9	
3	Grading	Grading	1/12/2035	2/5/2035	5	17	
4	Building Construction	Building Construction	2/6/2035	11/12/2035	5	200	
5	Paving	Paving	11/13/2035	12/5/2035	5	17	
6	Architectural Coating	Architectural Coating	12/6/2035	12/28/2035	5	17	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911		4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.2911</b>	<b>19.2411</b>	<b>10.0261</b>	<b>0.2911</b>	<b>10.3172</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0143	0.3035	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.6000e-004	0.0396		111.9322	111.9322	1.5600e-003	2.1600e-003	112.6150
<b>Total</b>	<b>0.0337</b>	<b>0.0143</b>	<b>0.3035</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.6000e-004</b>	<b>0.0396</b>		<b>111.9322</b>	<b>111.9322</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>112.6150</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911	0.0000	4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.2911</b>	<b>19.2411</b>	<b>10.0261</b>	<b>0.2911</b>	<b>10.3172</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0143	0.3035	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.6000e-004	0.0396		111.9322	111.9322	1.5600e-003	2.1600e-003	112.6150
<b>Total</b>	<b>0.0337</b>	<b>0.0143</b>	<b>0.3035</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.6000e-004</b>	<b>0.0396</b>		<b>111.9322</b>	<b>111.9322</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>112.6150</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.4619	5.9823	14.3296	0.0363		0.1557	0.1557		0.1557	0.1557		3,439.720 1	3,439.720 1	0.1282		3,442.925 9
<b>Total</b>	<b>1.4619</b>	<b>5.9823</b>	<b>14.3296</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.1557</b>	<b>6.6768</b>	<b>3.3641</b>	<b>0.1557</b>	<b>3.5198</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1282</b>		<b>3,442.925 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0119	0.2529	8.4000e-004	0.1232	3.3000e-004	0.1236	0.0327	3.0000e-004	0.0330		93.2769	93.2769	1.3000e-003	1.8000e-003	93.8458
<b>Total</b>	<b>0.0281</b>	<b>0.0119</b>	<b>0.2529</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.3000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>93.2769</b>	<b>93.2769</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>93.8458</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.4619	5.9823	14.3296	0.0363		0.1557	0.1557		0.1557	0.1557	0.0000	3,439.720 1	3,439.720 1	0.1282		3,442.925 9
<b>Total</b>	<b>1.4619</b>	<b>5.9823</b>	<b>14.3296</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.1557</b>	<b>6.6768</b>	<b>3.3641</b>	<b>0.1557</b>	<b>3.5198</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1282</b>		<b>3,442.925 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0281	0.0119	0.2529	8.4000e-004	0.1232	3.3000e-004	0.1236	0.0327	3.0000e-004	0.0330		93.2769	93.2769	1.3000e-003	1.8000e-003	93.8458
<b>Total</b>	<b>0.0281</b>	<b>0.0119</b>	<b>0.2529</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.3000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>93.2769</b>	<b>93.2769</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>93.8458</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3637	0.1044	1.4900e-003	0.0540	1.8000e-003	0.0558	0.0156	1.7200e-003	0.0173		157.5428	157.5428	4.9000e-004	0.0227	164.3128
Worker	0.1028	0.0438	0.9273	3.0800e-003	0.4518	1.2000e-003	0.4530	0.1198	1.1100e-003	0.1210		342.0152	342.0152	4.7600e-003	6.6000e-003	344.1014
<b>Total</b>	<b>0.1121</b>	<b>0.4074</b>	<b>1.0317</b>	<b>4.5700e-003</b>	<b>0.5059</b>	<b>3.0000e-003</b>	<b>0.5089</b>	<b>0.1354</b>	<b>2.8300e-003</b>	<b>0.1382</b>		<b>499.5579</b>	<b>499.5579</b>	<b>5.2500e-003</b>	<b>0.0293</b>	<b>508.4142</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3637	0.1044	1.4900e-003	0.0540	1.8000e-003	0.0558	0.0156	1.7200e-003	0.0173		157.5428	157.5428	4.9000e-004	0.0227	164.3128
Worker	0.1028	0.0438	0.9273	3.0800e-003	0.4518	1.2000e-003	0.4530	0.1198	1.1100e-003	0.1210		342.0152	342.0152	4.7600e-003	6.6000e-003	344.1014
<b>Total</b>	<b>0.1121</b>	<b>0.4074</b>	<b>1.0317</b>	<b>4.5700e-003</b>	<b>0.5059</b>	<b>3.0000e-003</b>	<b>0.5089</b>	<b>0.1354</b>	<b>2.8300e-003</b>	<b>0.1382</b>		<b>499.5579</b>	<b>499.5579</b>	<b>5.2500e-003</b>	<b>0.0293</b>	<b>508.4142</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9893	4.7441	13.0737	0.0230		0.1540	0.1540		0.1540	0.1540		2,154.2603	2,154.2603	0.0885		2,156.4730
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9893</b>	<b>4.7441</b>	<b>13.0737</b>	<b>0.0230</b>		<b>0.1540</b>	<b>0.1540</b>		<b>0.1540</b>	<b>0.1540</b>		<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.0885</b>		<b>2,156.4730</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0374	0.0159	0.3372	1.1200e-003	0.1643	4.4000e-004	0.1647	0.0436	4.0000e-004	0.0440		124.3692	124.3692	1.7300e-003	2.4000e-003	125.1278
<b>Total</b>	<b>0.0374</b>	<b>0.0159</b>	<b>0.3372</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.4000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>4.0000e-004</b>	<b>0.0440</b>		<b>124.3692</b>	<b>124.3692</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>125.1278</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9893	4.7441	13.0737	0.0230		0.1540	0.1540		0.1540	0.1540	0.0000	2,154.2603	2,154.2603	0.0885		2,156.4730
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9893</b>	<b>4.7441</b>	<b>13.0737</b>	<b>0.0230</b>		<b>0.1540</b>	<b>0.1540</b>		<b>0.1540</b>	<b>0.1540</b>	<b>0.0000</b>	<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.0885</b>		<b>2,156.4730</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0374	0.0159	0.3372	1.1200e-003	0.1643	4.4000e-004	0.1647	0.0436	4.0000e-004	0.0440		124.3692	124.3692	1.7300e-003	2.4000e-003	125.1278
<b>Total</b>	<b>0.0374</b>	<b>0.0159</b>	<b>0.3372</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.4000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>4.0000e-004</b>	<b>0.0440</b>		<b>124.3692</b>	<b>124.3692</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>125.1278</b>



CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	139.8679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>139.9858</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0206	8.7500e-003	0.1855	6.2000e-004	0.0904	2.4000e-004	0.0906	0.0240	2.2000e-004	0.0242		68.4030	68.4030	9.5000e-004	1.3200e-003	68.8203
<b>Total</b>	<b>0.0206</b>	<b>8.7500e-003</b>	<b>0.1855</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.4000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.2000e-004</b>	<b>0.0242</b>		<b>68.4030</b>	<b>68.4030</b>	<b>9.5000e-004</b>	<b>1.3200e-003</b>	<b>68.8203</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	139.8679					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>139.9858</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0206	8.7500e-003	0.1855	6.2000e-004	0.0904	2.4000e-004	0.0906	0.0240	2.2000e-004	0.0242		68.4030	68.4030	9.5000e-004	1.3200e-003	68.8203
<b>Total</b>	<b>0.0206</b>	<b>8.7500e-003</b>	<b>0.1855</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.4000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.2000e-004</b>	<b>0.0242</b>		<b>68.4030</b>	<b>68.4030</b>	<b>9.5000e-004</b>	<b>1.3200e-003</b>	<b>68.8203</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Unmitigated	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2900	11.2900	0.0108		11.5587
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2900	11.2900	0.0108		11.5587
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 13 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 14 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	75.00	Dwelling Unit	4.10	75,000.00	215
Government (Civic Center)	50.00	1000sqft	11.00	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Government civic land use includes 11 acres of "Commercial Use" or 50,000 square feetSee Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	50625	0
tblAreaCoating	Area_Residential_Interior	151875	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2037	12/29/2036
tblConstructionPhase	PhaseEndDate	5/18/2037	11/11/2036
tblConstructionPhase	PhaseEndDate	1/28/2036	12/31/2035
tblConstructionPhase	PhaseEndDate	3/24/2036	2/5/2036

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	6/15/2037	12/4/2036
tblConstructionPhase	PhaseEndDate	2/11/2036	1/11/2036
tblConstructionPhase	PhaseStartDate	6/16/2037	12/5/2036
tblConstructionPhase	PhaseStartDate	3/25/2036	2/6/2036
tblConstructionPhase	PhaseStartDate	2/12/2036	1/14/2036
tblConstructionPhase	PhaseStartDate	5/19/2037	11/12/2036
tblConstructionPhase	PhaseStartDate	1/29/2036	1/1/2036
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	3.45	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3.98	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	3.25	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	19.34	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberWood	26.25	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.69	4.10
tblLandUse	LotAcreage	1.15	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblSolidWaste	SolidWasteGenerationRate	285.00	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	33.98	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	IndoorWaterUseRate	9,932,984.29	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00
tblWater	OutdoorWaterUseRate	6,087,958.12	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2036	12/31/2035	5	0	
2	Site Preparation	Site Preparation	1/1/2036	1/11/2036	5	9	
3	Grading	Grading	1/14/2036	2/5/2036	5	17	

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2036	11/11/2036	5	200
5	Paving	Paving	11/12/2036	12/4/2036	5	17
6	Architectural Coating	Architectural Coating	12/5/2036	12/29/2036	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 151,875; Residential Outdoor: 50,625; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Scrapers	2	8.00	367	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37



CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0214
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.3100e-003</b>	<b>0.0906</b>	<b>0.0456</b>	<b>1.3100e-003</b>	<b>0.0469</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0214</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0213
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.3100e-003</b>	<b>0.0906</b>	<b>0.0456</b>	<b>1.3100e-003</b>	<b>0.0469</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0213</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

**3.4 Grading - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.0816	0.1915	5.9000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	55.6208	55.6208	1.9700e-003	0.0000	55.6702
<b>Total</b>	<b>0.0248</b>	<b>0.0816</b>	<b>0.1915</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>2.6700e-003</b>	<b>0.1016</b>	<b>0.0333</b>	<b>2.6700e-003</b>	<b>0.0360</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>55.6702</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.0816	0.1915	5.9000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	55.6208	55.6208	1.9700e-003	0.0000	55.6701
<b>Total</b>	<b>0.0248</b>	<b>0.0816</b>	<b>0.1915</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>2.6700e-003</b>	<b>0.1016</b>	<b>0.0333</b>	<b>2.6700e-003</b>	<b>0.0360</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>55.6701</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

**3.5 Building Construction - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8610	262.8610	9.7900e-003	0.0000	263.1058
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1058</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0754	0.0213	3.0000e-004	0.0104	3.6000e-004	0.0108	3.0200e-003	3.4000e-004	3.3600e-003	0.0000	28.6022	28.6022	9.0000e-005	4.1200e-003	29.8323
Worker	0.0116	6.2600e-003	0.1066	3.6000e-004	0.0551	1.5000e-004	0.0553	0.0147	1.4000e-004	0.0148	0.0000	33.4312	33.4312	6.1000e-004	8.3000e-004	33.6934
<b>Total</b>	<b>0.0135</b>	<b>0.0816</b>	<b>0.1279</b>	<b>6.6000e-004</b>	<b>0.0656</b>	<b>5.1000e-004</b>	<b>0.0661</b>	<b>0.0177</b>	<b>4.8000e-004</b>	<b>0.0182</b>	<b>0.0000</b>	<b>62.0335</b>	<b>62.0335</b>	<b>7.0000e-004</b>	<b>4.9500e-003</b>	<b>63.5257</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8607	262.8607	9.7900e-003	0.0000	263.1055
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1055</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0754	0.0213	3.0000e-004	0.0104	3.6000e-004	0.0108	3.0200e-003	3.4000e-004	3.3600e-003	0.0000	28.6022	28.6022	9.0000e-005	4.1200e-003	29.8323
Worker	0.0116	6.2600e-003	0.1066	3.6000e-004	0.0551	1.5000e-004	0.0553	0.0147	1.4000e-004	0.0148	0.0000	33.4312	33.4312	6.1000e-004	8.3000e-004	33.6934
<b>Total</b>	<b>0.0135</b>	<b>0.0816</b>	<b>0.1279</b>	<b>6.6000e-004</b>	<b>0.0656</b>	<b>5.1000e-004</b>	<b>0.0661</b>	<b>0.0177</b>	<b>4.8000e-004</b>	<b>0.0182</b>	<b>0.0000</b>	<b>62.0335</b>	<b>62.0335</b>	<b>7.0000e-004</b>	<b>4.9500e-003</b>	<b>63.5257</b>

**3.6 Paving - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6900e-003	0.0415	0.1345	2.4000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	20.4846	20.4846	7.9000e-004	0.0000	20.5043
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.6900e-003</b>	<b>0.0415</b>	<b>0.1345</b>	<b>2.4000e-004</b>		<b>1.5900e-003</b>	<b>1.5900e-003</b>		<b>1.5900e-003</b>	<b>1.5900e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>20.5043</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6900e-003	0.0415	0.1345	2.4000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	20.4846	20.4846	7.9000e-004	0.0000	20.5043
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.6900e-003</b>	<b>0.0415</b>	<b>0.1345</b>	<b>2.4000e-004</b>		<b>1.5900e-003</b>	<b>1.5900e-003</b>		<b>1.5900e-003</b>	<b>1.5900e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>20.5043</b>



CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

**3.7 Architectural Coating - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7526					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>1.7536</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.8100e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.5683	0.5683	1.0000e-005	1.0000e-005	0.5728
<b>Total</b>	<b>2.0000e-004</b>	<b>1.1000e-004</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.5683</b>	<b>0.5683</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5728</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7526					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>1.7536</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.8100e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.5683	0.5683	1.0000e-005	1.0000e-005	0.5728
<b>Total</b>	<b>2.0000e-004</b>	<b>1.1000e-004</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.5683</b>	<b>0.5683</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5728</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Government (Civic Center)	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**





CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 14 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	75.00	Dwelling Unit	4.10	75,000.00	215
Government (Civic Center)	50.00	1000sqft	11.00	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Government civic land use includes 11 acres of "Commercial Use" or 50,000 square feetSee Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	50625	0
tblAreaCoating	Area_Residential_Interior	151875	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2037	12/29/2036
tblConstructionPhase	PhaseEndDate	5/18/2037	11/11/2036
tblConstructionPhase	PhaseEndDate	1/28/2036	12/31/2035
tblConstructionPhase	PhaseEndDate	3/24/2036	2/5/2036



CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	6/15/2037	12/4/2036
tblConstructionPhase	PhaseEndDate	2/11/2036	1/11/2036
tblConstructionPhase	PhaseStartDate	6/16/2037	12/5/2036
tblConstructionPhase	PhaseStartDate	3/25/2036	2/6/2036
tblConstructionPhase	PhaseStartDate	2/12/2036	1/14/2036
tblConstructionPhase	PhaseStartDate	5/19/2037	11/12/2036
tblConstructionPhase	PhaseStartDate	1/29/2036	1/1/2036
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	3.45	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3.98	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	3.25	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	19.34	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberWood	26.25	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.69	4.10
tblLandUse	LotAcreage	1.15	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

## CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblSolidWaste	SolidWasteGenerationRate	285.00	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	33.98	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	IndoorWaterUseRate	9,932,984.29	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00
tblWater	OutdoorWaterUseRate	6,087,958.12	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1524	11.1524	0.0106	0.0000	11.4182
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1848</b>	<b>0.0712</b>	<b>6.1709</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1524</b>	<b>11.1524</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4182</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1524	11.1524	0.0106	0.0000	11.4182
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1848</b>	<b>0.0712</b>	<b>6.1709</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1524</b>	<b>11.1524</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4182</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2036	12/31/2035	5	0	
2	Site Preparation	Site Preparation	1/1/2036	1/11/2036	5	9	
3	Grading	Grading	1/14/2036	2/5/2036	5	17	
4	Building Construction	Building Construction	2/6/2036	11/11/2036	5	200	
5	Paving	Paving	11/12/2036	12/4/2036	5	17	
6	Architectural Coating	Architectural Coating	12/5/2036	12/29/2036	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 151,875; Residential Outdoor: 50,625; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Scrapers	2	8.00	367	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911		4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.2911</b>	<b>20.1249</b>	<b>10.1215</b>	<b>0.2911</b>	<b>10.4126</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911	0.0000	4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.2911</b>	<b>20.1249</b>	<b>10.1215</b>	<b>0.2911</b>	<b>10.4126</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>



CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9116	9.5942	22.5250	0.0699		0.3142	0.3142		0.3142	0.3142		7,213.1148	7,213.1148	0.2560		7,219.5135
<b>Total</b>	<b>2.9116</b>	<b>9.5942</b>	<b>22.5250</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.3142</b>	<b>11.9507</b>	<b>3.9165</b>	<b>0.3142</b>	<b>4.2307</b>		<b>7,213.1148</b>	<b>7,213.1148</b>	<b>0.2560</b>		<b>7,219.5135</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9116	9.5942	22.5250	0.0699		0.3142	0.3142		0.3142	0.3142	0.0000	7,213.1148	7,213.1148	0.2560		7,219.5135
<b>Total</b>	<b>2.9116</b>	<b>9.5942</b>	<b>22.5250</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.3142</b>	<b>11.9507</b>	<b>3.9165</b>	<b>0.3142</b>	<b>4.2307</b>	<b>0.0000</b>	<b>7,213.1148</b>	<b>7,213.1148</b>	<b>0.2560</b>		<b>7,219.5135</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0186	0.7273	0.2087	2.9900e-003	0.1081	3.6000e-003	0.1117	0.0311	3.4400e-003	0.0345		315.0856	315.0856	9.7000e-004	0.0454	328.6255
Worker	0.1296	0.0552	1.1535	3.9200e-003	0.5750	1.5000e-003	0.5765	0.1525	1.3800e-003	0.1539		396.0518	396.0518	6.0600e-003	8.4000e-003	398.7071
<b>Total</b>	<b>0.1482</b>	<b>0.7826</b>	<b>1.3622</b>	<b>6.9100e-003</b>	<b>0.6831</b>	<b>5.1000e-003</b>	<b>0.6882</b>	<b>0.1836</b>	<b>4.8200e-003</b>	<b>0.1884</b>		<b>711.1374</b>	<b>711.1374</b>	<b>7.0300e-003</b>	<b>0.0538</b>	<b>727.3326</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0186	0.7273	0.2087	2.9900e-003	0.1081	3.6000e-003	0.1117	0.0311	3.4400e-003	0.0345		315.0856	315.0856	9.7000e-004	0.0454	328.6255
Worker	0.1296	0.0552	1.1535	3.9200e-003	0.5750	1.5000e-003	0.5765	0.1525	1.3800e-003	0.1539		396.0518	396.0518	6.0600e-003	8.4000e-003	398.7071
<b>Total</b>	<b>0.1482</b>	<b>0.7826</b>	<b>1.3622</b>	<b>6.9100e-003</b>	<b>0.6831</b>	<b>5.1000e-003</b>	<b>0.6882</b>	<b>0.1836</b>	<b>4.8200e-003</b>	<b>0.1884</b>		<b>711.1374</b>	<b>711.1374</b>	<b>7.0300e-003</b>	<b>0.0538</b>	<b>727.3326</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0727</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	206.1893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>206.3072</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0259	0.0111	0.2307	7.8000e-004	0.1150	3.0000e-004	0.1153	0.0305	2.8000e-004	0.0308		79.2104	79.2104	1.2100e-003	1.6800e-003	79.7414
<b>Total</b>	<b>0.0259</b>	<b>0.0111</b>	<b>0.2307</b>	<b>7.8000e-004</b>	<b>0.1150</b>	<b>3.0000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.8000e-004</b>	<b>0.0308</b>		<b>79.2104</b>	<b>79.2104</b>	<b>1.2100e-003</b>	<b>1.6800e-003</b>	<b>79.7414</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	206.1893					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>206.3072</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0259	0.0111	0.2307	7.8000e-004	0.1150	3.0000e-004	0.1153	0.0305	2.8000e-004	0.0308		79.2104	79.2104	1.2100e-003	1.6800e-003	79.7414
<b>Total</b>	<b>0.0259</b>	<b>0.0111</b>	<b>0.2307</b>	<b>7.8000e-004</b>	<b>0.1150</b>	<b>3.0000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.8000e-004</b>	<b>0.0308</b>		<b>79.2104</b>	<b>79.2104</b>	<b>1.2100e-003</b>	<b>1.6800e-003</b>	<b>79.7414</b>



CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16

**4.4 Fleet Mix**

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Government (Civic Center)	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1524	11.1524	0.0106	0.0000	11.4182
Unmitigated	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1524	11.1524	0.0106	0.0000	11.4182

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343		11.1524	11.1524	0.0106		11.4182
<b>Total</b>	<b>0.1848</b>	<b>0.0712</b>	<b>6.1709</b>	<b>3.3000e-004</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1524</b>	<b>11.1524</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4182</b>

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343		11.1524	11.1524	0.0106		11.4182
<b>Total</b>	<b>0.1848</b>	<b>0.0712</b>	<b>6.1709</b>	<b>3.3000e-004</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1524</b>	<b>11.1524</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4182</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 14 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 15 Unmitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	75.00	Dwelling Unit	4.10	75,000.00	215

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>		2035	
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only



CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	50625	0
tblAreaCoating	Area_Residential_Interior	151875	0
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/23/2038	12/30/2037
tblConstructionPhase	PhaseEndDate	1/4/2038	11/12/2037
tblConstructionPhase	PhaseEndDate	1/28/2037	12/31/2036
tblConstructionPhase	PhaseEndDate	2/16/2037	2/5/2037
tblConstructionPhase	PhaseEndDate	1/28/2038	12/7/2037
tblConstructionPhase	PhaseEndDate	2/4/2037	1/13/2037
tblConstructionPhase	PhaseStartDate	1/29/2038	12/8/2037

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	2/17/2037	2/6/2037
tblConstructionPhase	PhaseStartDate	2/5/2037	1/14/2037
tblConstructionPhase	PhaseStartDate	1/5/2038	11/13/2037
tblConstructionPhase	PhaseStartDate	1/29/2037	1/1/2037
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberWood	26.25	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.69	4.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

## 2.0 Emissions Summary

### 2.1 Overall Construction Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2037	1.3371	0.9023	2.0319	4.2900e-003	0.1922	0.0134	0.2055	0.0875	0.0134	0.1009	0.0000	368.5141	368.5141	0.0129	2.7600e-003	369.6568
Maximum	1.3371	0.9023	2.0319	4.2900e-003	0.1922	0.0134	0.2055	0.0875	0.0134	0.1009	0.0000	368.5141	368.5141	0.0129	2.7600e-003	369.6568
tons/yr											MT/yr					

### Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2037	1.3371	0.9023	2.0319	4.2900e-003	0.1922	0.0134	0.2055	0.0875	0.0134	0.1009	0.0000	368.5137	368.5137	0.0129	2.7600e-003	369.6565
Maximum	1.3371	0.9023	2.0319	4.2900e-003	0.1922	0.0134	0.2055	0.0875	0.0134	0.1009	0.0000	368.5137	368.5137	0.0129	2.7600e-003	369.6565
tons/yr											MT/yr					



CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2037	12/31/2036	5	0	
2	Site Preparation	Site Preparation	1/1/2037	1/13/2037	5	9	
3	Grading	Grading	1/14/2037	2/5/2037	5	17	

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2037	11/12/2037	5	200
5	Paving	Paving	11/13/2037	12/7/2037	5	17
6	Architectural Coating	Architectural Coating	12/8/2037	12/30/2037	5	17

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 151,875; Residential Outdoor: 50,625; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0214
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.3100e-003</b>	<b>0.0866</b>	<b>0.0451</b>	<b>1.3100e-003</b>	<b>0.0464</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0214</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2037**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0213
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.3100e-003</b>	<b>0.0866</b>	<b>0.0451</b>	<b>1.3100e-003</b>	<b>0.0464</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0213</b>



CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2037**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

**3.4 Grading - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0509	0.1218	3.1000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	26.5239	26.5239	9.9000e-004	0.0000	26.5486
<b>Total</b>	<b>0.0124</b>	<b>0.0509</b>	<b>0.1218</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.3200e-003</b>	<b>0.0568</b>	<b>0.0286</b>	<b>1.3200e-003</b>	<b>0.0299</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>26.5486</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2037**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0509	0.1218	3.1000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	26.5239	26.5239	9.9000e-004	0.0000	26.5486
<b>Total</b>	<b>0.0124</b>	<b>0.0509</b>	<b>0.1218</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.3200e-003</b>	<b>0.0568</b>	<b>0.0286</b>	<b>1.3200e-003</b>	<b>0.0299</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>26.5486</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2037**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

**3.5 Building Construction - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8610	262.8610	9.7900e-003	0.0000	263.1058
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1058</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2037**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0377	0.0107	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.7000e-004	1.6800e-003	0.0000	14.3011	14.3011	4.0000e-005	2.0600e-003	14.9162
Worker	8.9800e-003	4.8300e-003	0.0822	2.8000e-004	0.0425	1.2000e-004	0.0426	0.0113	1.1000e-004	0.0114	0.0000	25.7898	25.7898	4.7000e-004	6.4000e-004	25.9920
<b>Total</b>	<b>9.8900e-003</b>	<b>0.0425</b>	<b>0.0929</b>	<b>4.3000e-004</b>	<b>0.0477</b>	<b>3.0000e-004</b>	<b>0.0480</b>	<b>0.0128</b>	<b>2.8000e-004</b>	<b>0.0131</b>	<b>0.0000</b>	<b>40.0909</b>	<b>40.0909</b>	<b>5.1000e-004</b>	<b>2.7000e-003</b>	<b>40.9082</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8607	262.8607	9.7900e-003	0.0000	263.1055
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1055</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2037**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0377	0.0107	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.7000e-004	1.6800e-003	0.0000	14.3011	14.3011	4.0000e-005	2.0600e-003	14.9162
Worker	8.9800e-003	4.8300e-003	0.0822	2.8000e-004	0.0425	1.2000e-004	0.0426	0.0113	1.1000e-004	0.0114	0.0000	25.7898	25.7898	4.7000e-004	6.4000e-004	25.9920
<b>Total</b>	<b>9.8900e-003</b>	<b>0.0425</b>	<b>0.0929</b>	<b>4.3000e-004</b>	<b>0.0477</b>	<b>3.0000e-004</b>	<b>0.0480</b>	<b>0.0128</b>	<b>2.8000e-004</b>	<b>0.0131</b>	<b>0.0000</b>	<b>40.0909</b>	<b>40.0909</b>	<b>5.1000e-004</b>	<b>2.7000e-003</b>	<b>40.9082</b>

**3.6 Paving - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4100e-003	0.0403	0.1111	2.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	16.6117	16.6117	6.8000e-004	0.0000	16.6287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4100e-003</b>	<b>0.0403</b>	<b>0.1111</b>	<b>2.0000e-004</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>16.6117</b>	<b>16.6117</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.6287</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2037**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4100e-003	0.0403	0.1111	2.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	16.6116	16.6116	6.8000e-004	0.0000	16.6287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4100e-003</b>	<b>0.0403</b>	<b>0.1111</b>	<b>2.0000e-004</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>16.6116</b>	<b>16.6116</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.6287</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2037**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

**3.7 Architectural Coating - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1732					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>1.1742</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2037**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.4200e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4466	0.4466	1.0000e-005	1.0000e-005	0.4501
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4466</b>	<b>0.4466</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4501</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1732					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>1.1742</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>



CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2037**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.4200e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4466	0.4466	1.0000e-005	1.0000e-005	0.4501
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4466</b>	<b>0.4466</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4501</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987





CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County, Annual

8.2 Waste by Land Use

Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
Apartment's Low Rise	0	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
Apartment's Low Rise	0	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 15 Unmitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	75.00	Dwelling Unit	4.10	75,000.00	215

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>		2035	
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	50625	0
tblAreaCoating	Area_Residential_Interior	151875	0
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/23/2038	12/30/2037
tblConstructionPhase	PhaseEndDate	1/4/2038	11/12/2037
tblConstructionPhase	PhaseEndDate	1/28/2037	12/31/2036
tblConstructionPhase	PhaseEndDate	2/16/2037	2/5/2037
tblConstructionPhase	PhaseEndDate	1/28/2038	12/7/2037
tblConstructionPhase	PhaseEndDate	2/4/2037	1/13/2037
tblConstructionPhase	PhaseStartDate	1/29/2038	12/8/2037

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	2/17/2037	2/6/2037
tblConstructionPhase	PhaseStartDate	2/5/2037	1/14/2037
tblConstructionPhase	PhaseStartDate	1/5/2038	11/13/2037
tblConstructionPhase	PhaseStartDate	1/29/2037	1/1/2037
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberWood	26.25	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.69	4.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00

CEPHSP Construction Year 15 Unmitigated - El Dorado-Mountain County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2037	138.1658	10.1541	17.1120	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,511.595	4,511.595	0.1905	0.0292	4,517.001
Maximum	138.1658	10.1541	17.1120	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,511.595	4,511.595	0.1905	0.0292	4,517.001

#### Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2037	138.1658	10.1541	17.1120	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,511.595	4,511.595	0.1905	0.0292	4,517.001
Maximum	138.1658	10.1541	17.1120	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,511.595	4,511.595	0.1905	0.0292	4,517.001





CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1414	11.1414	0.0106	0.0000	11.4066
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1844</b>	<b>0.0711</b>	<b>6.1659</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1414</b>	<b>11.1414</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4066</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1414	11.1414	0.0106	0.0000	11.4066
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1844</b>	<b>0.0711</b>	<b>6.1659</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1414</b>	<b>11.1414</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4066</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2037	12/31/2036	5	0	
2	Site Preparation	Site Preparation	1/1/2037	1/13/2037	5	9	
3	Grading	Grading	1/14/2037	2/5/2037	5	17	
4	Building Construction	Building Construction	2/6/2037	11/12/2037	5	200	
5	Paving	Paving	11/13/2037	12/7/2037	5	17	
6	Architectural Coating	Architectural Coating	12/8/2037	12/30/2037	5	17	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 151,875; Residential Outdoor: 50,625; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911		4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.2911</b>	<b>19.2411</b>	<b>10.0261</b>	<b>0.2911</b>	<b>10.3172</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911	0.0000	4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.2911</b>	<b>19.2411</b>	<b>10.0261</b>	<b>0.2911</b>	<b>10.3172</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.4619	5.9823	14.3296	0.0363		0.1557	0.1557		0.1557	0.1557		3,439.720 1	3,439.720 1	0.1282		3,442.925 9
<b>Total</b>	<b>1.4619</b>	<b>5.9823</b>	<b>14.3296</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.1557</b>	<b>6.6768</b>	<b>3.3641</b>	<b>0.1557</b>	<b>3.5198</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1282</b>		<b>3,442.925 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.4619	5.9823	14.3296	0.0363		0.1557	0.1557		0.1557	0.1557	0.0000	3,439.720 1	3,439.720 1	0.1282		3,442.925 9
<b>Total</b>	<b>1.4619</b>	<b>5.9823</b>	<b>14.3296</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.1557</b>	<b>6.6768</b>	<b>3.3641</b>	<b>0.1557</b>	<b>3.5198</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1282</b>		<b>3,442.925 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3637	0.1044	1.4900e-003	0.0540	1.8000e-003	0.0558	0.0156	1.7200e-003	0.0173		157.5428	157.5428	4.9000e-004	0.0227	164.3128
Worker	0.1000	0.0426	0.8899	3.0200e-003	0.4436	1.1600e-003	0.4448	0.1177	1.0600e-003	0.1187		305.5257	305.5257	4.6800e-003	6.4800e-003	307.5740
<b>Total</b>	<b>0.1093</b>	<b>0.4063</b>	<b>0.9942</b>	<b>4.5100e-003</b>	<b>0.4976</b>	<b>2.9600e-003</b>	<b>0.5006</b>	<b>0.1332</b>	<b>2.7800e-003</b>	<b>0.1360</b>		<b>463.0685</b>	<b>463.0685</b>	<b>5.1700e-003</b>	<b>0.0292</b>	<b>471.8868</b>



CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3637	0.1044	1.4900e-003	0.0540	1.8000e-003	0.0558	0.0156	1.7200e-003	0.0173		157.5428	157.5428	4.9000e-004	0.0227	164.3128
Worker	0.1000	0.0426	0.8899	3.0200e-003	0.4436	1.1600e-003	0.4448	0.1177	1.0600e-003	0.1187		305.5257	305.5257	4.6800e-003	6.4800e-003	307.5740
<b>Total</b>	<b>0.1093</b>	<b>0.4063</b>	<b>0.9942</b>	<b>4.5100e-003</b>	<b>0.4976</b>	<b>2.9600e-003</b>	<b>0.5006</b>	<b>0.1332</b>	<b>2.7800e-003</b>	<b>0.1360</b>		<b>463.0685</b>	<b>463.0685</b>	<b>5.1700e-003</b>	<b>0.0292</b>	<b>471.8868</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9893	4.7441	13.0737	0.0230		0.1540	0.1540		0.1540	0.1540		2,154.2603	2,154.2603	0.0885		2,156.4730
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9893</b>	<b>4.7441</b>	<b>13.0737</b>	<b>0.0230</b>		<b>0.1540</b>	<b>0.1540</b>		<b>0.1540</b>	<b>0.1540</b>		<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.0885</b>		<b>2,156.4730</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9893	4.7441	13.0737	0.0230		0.1540	0.1540		0.1540	0.1540	0.0000	2,154.2603	2,154.2603	0.0885		2,156.4730
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9893</b>	<b>4.7441</b>	<b>13.0737</b>	<b>0.0230</b>		<b>0.1540</b>	<b>0.1540</b>		<b>0.1540</b>	<b>0.1540</b>	<b>0.0000</b>	<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.0885</b>		<b>2,156.4730</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	138.0276					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>138.1454</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	8.6800e-003	0.1813	6.2000e-004	0.0904	2.4000e-004	0.0906	0.0240	2.2000e-004	0.0242		62.2367	62.2367	9.5000e-004	1.3200e-003	62.6540
<b>Total</b>	<b>0.0204</b>	<b>8.6800e-003</b>	<b>0.1813</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.4000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.2000e-004</b>	<b>0.0242</b>		<b>62.2367</b>	<b>62.2367</b>	<b>9.5000e-004</b>	<b>1.3200e-003</b>	<b>62.6540</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	138.0276					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>138.1454</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	8.6800e-003	0.1813	6.2000e-004	0.0904	2.4000e-004	0.0906	0.0240	2.2000e-004	0.0242		62.2367	62.2367	9.5000e-004	1.3200e-003	62.6540
<b>Total</b>	<b>0.0204</b>	<b>8.6800e-003</b>	<b>0.1813</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.4000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.2000e-004</b>	<b>0.0242</b>		<b>62.2367</b>	<b>62.2367</b>	<b>9.5000e-004</b>	<b>1.3200e-003</b>	<b>62.6540</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1414	11.1414	0.0106	0.0000	11.4066
Unmitigated	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1414	11.1414	0.0106	0.0000	11.4066



CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343		11.1414	11.1414	0.0106		11.4066
<b>Total</b>	<b>0.1844</b>	<b>0.0711</b>	<b>6.1659</b>	<b>3.3000e-004</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1414</b>	<b>11.1414</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4066</b>

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343		11.1414	11.1414	0.0106		11.4066
<b>Total</b>	<b>0.1844</b>	<b>0.0711</b>	<b>6.1659</b>	<b>3.3000e-004</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1414</b>	<b>11.1414</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4066</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 15 Unmitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Trail Construction Activity  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.00	Acre	1.00	43,560.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2029
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - Trail construction activity. Modeling equipment use only.
- Land Use - Assume city park 1 acres. Modeling equipment use only.
- Construction Phase - Assume construction per phase lasts 1 month, or equipment use for one month.
- Off-road Equipment - No building construction phase.
- Off-road Equipment - Per previous modeling: 1 backhoe/1 bobcat (or Skid-steer loader) used per day. Assuming 8 hours per day.
- Trips and VMT - Assuming no additional worker trips required to complete this construction, would likely occur during other construction activities.
- Off-road Equipment - No demo phase.
- Grading - Equipment modeling only.
- Off-road Equipment - no site prep phase.
- Off-road Equipment - No paving phase.
- Off-road Equipment - No arch coating phase.
- Vehicle Trips - Construction equipment only.

Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Water And Wastewater - Construction equipment only.

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	100.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	PhaseEndDate	6/21/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/7/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	1/14/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	1/19/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/14/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	1/17/2028	1/2/2028
tblConstructionPhase	PhaseStartDate	6/15/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	1/20/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	1/18/2028	1/3/2028
tblConstructionPhase	PhaseStartDate	6/8/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	1/15/2028	1/3/2028
tblOffRoadEquipment	HorsePower	63.00	97.00
tblOffRoadEquipment	HorsePower	97.00	187.00
tblOffRoadEquipment	HorsePower	65.00	247.00
tblOffRoadEquipment	LoadFactor	0.31	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.41
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Skid Steer Loaders

Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	7.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblWater	OutdoorWaterUseRate	1,191,481.35	0.00

**2.0 Emissions Summary**

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Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2028	4-2-2028	0.0197	0.0197
		Highest	0.0197	0.0197

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.1000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0183	0.0000	0.0183	1.0800e-003	0.0000	0.0453
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0183</b>	<b>2.0000e-005</b>	<b>0.0183</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>0.0453</b>



Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.1000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0183	0.0000	0.0183	1.0800e-003	0.0000	0.0453
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0183</b>	<b>2.0000e-005</b>	<b>0.0183</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>0.0453</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/2/2028	5	0	
3	Grading	Grading	1/3/2028	1/31/2028	5	21	

Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/1/2028	1/31/2028	5	0
5	Paving	Paving	2/1/2028	1/31/2028	5	0
6	Architectural Coating	Architectural Coating	2/1/2028	1/31/2028	5	0

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48
Grading	Aerial Lifts	0	7.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Grading	Tractors/Loaders/Backhoes	1	8.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Skid Steer Loaders	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37









Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0175	0.0163	7.0000e-005		6.7000e-004	6.7000e-004		6.2000e-004	6.2000e-004	0.0000	6.0616	6.0616	1.9600e-003	0.0000	6.1106
<b>Total</b>	<b>2.1900e-003</b>	<b>0.0175</b>	<b>0.0163</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>6.0616</b>	<b>6.0616</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.1106</b>

Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	7.0000e-005	1.0500e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2876	0.2876	1.0000e-005	1.0000e-005	0.2901
<b>Total</b>	<b>1.4000e-004</b>	<b>7.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.2876</b>	<b>0.2876</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2901</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0175	0.0163	7.0000e-005		6.7000e-004	6.7000e-004		6.2000e-004	6.2000e-004	0.0000	6.0616	6.0616	1.9600e-003	0.0000	6.1106
<b>Total</b>	<b>2.1900e-003</b>	<b>0.0175</b>	<b>0.0163</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>6.0616</b>	<b>6.0616</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.1106</b>

















Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724







Trail Construction Activity - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.1000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	4.1000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0183	1.0800e-003	0.0000	0.0453
Unmitigated	0.0183	1.0800e-003	0.0000	0.0453





Trail Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Trail Construction Activity**  
**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.00	Acre	1.00	43,560.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2029
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - Trail construction activity. Modeling equipment use only.
- Land Use - Assume city park 1 acres. Modeling equipment use only.
- Construction Phase - Assume construction per phase lasts 1 month, or equipment use for one month.
- Off-road Equipment - No building construction phase.
- Off-road Equipment - Per previous modeling: 1 backhoe/1 bobcat (or Skid-steer loader) used per day. Assuming 8 hours per day.
- Trips and VMT - Assuming no additional worker trips required to complete this construction, would likely occur during other construction activities.
- Off-road Equipment - No demo phase.
- Grading - Equipment modeling only.
- Off-road Equipment - no site prep phase.
- Off-road Equipment - No paving phase.
- Off-road Equipment - No arch coating phase.
- Vehicle Trips - Construction equipment only.

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Water And Wastewater - Construction equipment only.

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	100.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	PhaseEndDate	6/21/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/7/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	1/14/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	1/19/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/14/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	1/17/2028	1/2/2028
tblConstructionPhase	PhaseStartDate	6/15/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	1/20/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	1/18/2028	1/3/2028
tblConstructionPhase	PhaseStartDate	6/8/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	1/15/2028	1/3/2028
tblOffRoadEquipment	HorsePower	63.00	97.00
tblOffRoadEquipment	HorsePower	97.00	187.00
tblOffRoadEquipment	HorsePower	65.00	247.00
tblOffRoadEquipment	LoadFactor	0.31	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.41
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Skid Steer Loaders

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	7.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblWater	OutdoorWaterUseRate	1,191,481.35	0.00

**2.0 Emissions Summary**

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Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2500e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2500e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/2/2028	5	0	
3	Grading	Grading	1/3/2028	1/31/2028	5	21	
4	Building Construction	Building Construction	2/1/2028	1/31/2028	5	0	
5	Paving	Paving	2/1/2028	1/31/2028	5	0	
6	Architectural Coating	Architectural Coating	2/1/2028	1/31/2028	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48
Grading	Aerial Lifts	0	7.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	4.00	231	0.29

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	0	6.00	89	0.20
Grading	Tractors/Loaders/Backhoes	1	8.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Skid Steer Loaders	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**











Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2084	1.6694	1.5490	6.5800e-003		0.0640	0.0640		0.0589	0.0589		636.3550	636.3550	0.2058		641.5002
<b>Total</b>	<b>0.2084</b>	<b>1.6694</b>	<b>1.5490</b>	<b>6.5800e-003</b>	<b>0.0000</b>	<b>0.0640</b>	<b>0.0640</b>	<b>0.0000</b>	<b>0.0589</b>	<b>0.0589</b>		<b>636.3550</b>	<b>636.3550</b>	<b>0.2058</b>		<b>641.5002</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0147	6.2800e-003	0.1083	3.2000e-004	0.0411	1.7000e-004	0.0412	0.0109	1.6000e-004	0.0111		32.4324	32.4324	7.3000e-004	7.5000e-004	32.6744
<b>Total</b>	<b>0.0147</b>	<b>6.2800e-003</b>	<b>0.1083</b>	<b>3.2000e-004</b>	<b>0.0411</b>	<b>1.7000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.6000e-004</b>	<b>0.0111</b>		<b>32.4324</b>	<b>32.4324</b>	<b>7.3000e-004</b>	<b>7.5000e-004</b>	<b>32.6744</b>

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2084	1.6694	1.5490	6.5800e-003		0.0640	0.0640		0.0589	0.0589	0.0000	636.3550	636.3550	0.2058		641.5002
<b>Total</b>	<b>0.2084</b>	<b>1.6694</b>	<b>1.5490</b>	<b>6.5800e-003</b>	<b>0.0000</b>	<b>0.0640</b>	<b>0.0640</b>	<b>0.0000</b>	<b>0.0589</b>	<b>0.0589</b>	<b>0.0000</b>	<b>636.3550</b>	<b>636.3550</b>	<b>0.2058</b>		<b>641.5002</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0147	6.2800e-003	0.1083	3.2000e-004	0.0411	1.7000e-004	0.0412	0.0109	1.6000e-004	0.0111		32.4324	32.4324	7.3000e-004	7.5000e-004	32.6744
<b>Total</b>	<b>0.0147</b>	<b>6.2800e-003</b>	<b>0.1083</b>	<b>3.2000e-004</b>	<b>0.0411</b>	<b>1.7000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.6000e-004</b>	<b>0.0111</b>		<b>32.4324</b>	<b>32.4324</b>	<b>7.3000e-004</b>	<b>7.5000e-004</b>	<b>32.6744</b>















Trail Construction Activity - El Dorado-Mountain County County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2500e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	2.2500e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>



Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Trail Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Wetland Construction Activity  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.00	Acre	1.00	43,560.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2029
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Trail construction activity. Modeling equipment use only.

Land Use - Assume city park 1 acres. Modeling equipment use only.

Construction Phase - Assume construction per phase lasts 1 month, or equipment use for one month.

Off-road Equipment - No building construction phase.

Off-road Equipment - Per previous modeling: 1 backhoe/1 bobcat (or Skid-steer loader) used per day. Assuming 8 hours per day.

Trips and VMT - Assuming no additional worker trips required to complete this construction, would likely occur during other construction activities.

Off-road Equipment - No demo phase.

Grading - Equipment modeling only.

Off-road Equipment - no site prep phase.

Off-road Equipment - No paving phase.

Off-road Equipment - No arch coating phase.

Vehicle Trips - Construction equipment only.

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Water And Wastewater - Construction equipment only.

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	100.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	PhaseEndDate	1/14/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	1/17/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	1/19/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/7/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/14/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/21/2028	1/31/2028
tblConstructionPhase	PhaseStartDate	1/15/2028	1/3/2028
tblConstructionPhase	PhaseStartDate	1/18/2028	1/3/2028
tblConstructionPhase	PhaseStartDate	1/20/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	6/8/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	6/15/2028	2/1/2028
tblOffRoadEquipment	HorsePower	63.00	97.00
tblOffRoadEquipment	HorsePower	97.00	187.00
tblOffRoadEquipment	HorsePower	65.00	247.00
tblOffRoadEquipment	LoadFactor	0.31	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.41
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Skid Steer Loaders

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	7.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblWater	OutdoorWaterUseRate	1,191,481.35	0.00

**2.0 Emissions Summary**

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Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2028	4-2-2028	0.0197	0.0197
		Highest	0.0197	0.0197

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.1000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0183	0.0000	0.0183	1.0800e-003	0.0000	0.0453
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0183</b>	<b>2.0000e-005</b>	<b>0.0183</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>0.0453</b>

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.1000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0183	0.0000	0.0183	1.0800e-003	0.0000	0.0453
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0183</b>	<b>2.0000e-005</b>	<b>0.0183</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>0.0453</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/2/2028	5	0	
3	Grading	Grading	1/3/2028	1/31/2028	5	21	



Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/1/2028	1/31/2028	5	0
5	Paving	Paving	2/1/2028	1/31/2028	5	0
6	Architectural Coating	Architectural Coating	2/1/2028	1/31/2028	5	0

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48
Grading	Aerial Lifts	0	7.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Grading	Tractors/Loaders/Backhoes	1	8.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Skid Steer Loaders	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37









Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0175	0.0163	7.0000e-005		6.7000e-004	6.7000e-004		6.2000e-004	6.2000e-004	0.0000	6.0616	6.0616	1.9600e-003	0.0000	6.1106
<b>Total</b>	<b>2.1900e-003</b>	<b>0.0175</b>	<b>0.0163</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>6.0616</b>	<b>6.0616</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.1106</b>

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	7.0000e-005	1.0500e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2876	0.2876	1.0000e-005	1.0000e-005	0.2901
<b>Total</b>	<b>1.4000e-004</b>	<b>7.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.2876</b>	<b>0.2876</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2901</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0175	0.0163	7.0000e-005		6.7000e-004	6.7000e-004		6.2000e-004	6.2000e-004	0.0000	6.0616	6.0616	1.9600e-003	0.0000	6.1106
<b>Total</b>	<b>2.1900e-003</b>	<b>0.0175</b>	<b>0.0163</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>6.0616</b>	<b>6.0616</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.1106</b>

















Wetland Construction Activity - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000





EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Wetland Construction Activity - El Dorado-Mountain County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.1000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	4.1000e-004	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0183	1.0800e-003	0.0000	0.0453
Unmitigated	0.0183	1.0800e-003	0.0000	0.0453

Wetland Construction Activity - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**8.2 Waste by Land Use**

Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0.09	0.0183	1.0800e-003	0.0000	0.0453
City Park				
Total	0.0183	1.0800e-003	0.0000	0.0453

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0.09	0.0183	1.0800e-003	0.0000	0.0453
City Park				
Total	0.0183	1.0800e-003	0.0000	0.0453

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Wetland Construction Activity - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Wetland Construction Activity  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.00	Acre	1.00	43,560.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2029
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Trail construction activity. Modeling equipment use only.

Land Use - Assume city park 1 acres. Modeling equipment use only.

Construction Phase - Assume construction per phase lasts 1 month, or equipment use for one month.

Off-road Equipment - No building construction phase.

Off-road Equipment - Per previous modeling: 1 backhoe/1 bobcat (or Skid-steer loader) used per day. Assuming 8 hours per day.

Trips and VMT - Assuming no additional worker trips required to complete this construction, would likely occur during other construction activities.

Off-road Equipment - No demo phase.

Grading - Equipment modeling only.

Off-road Equipment - no site prep phase.

Off-road Equipment - No paving phase.

Off-road Equipment - No arch coating phase.

Vehicle Trips - Construction equipment only.

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Water And Wastewater - Construction equipment only.

Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	100.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	PhaseEndDate	1/14/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	1/17/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	1/19/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/7/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/14/2028	1/31/2028
tblConstructionPhase	PhaseEndDate	6/21/2028	1/31/2028
tblConstructionPhase	PhaseStartDate	1/15/2028	1/3/2028
tblConstructionPhase	PhaseStartDate	1/18/2028	1/3/2028
tblConstructionPhase	PhaseStartDate	1/20/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	6/8/2028	2/1/2028
tblConstructionPhase	PhaseStartDate	6/15/2028	2/1/2028
tblOffRoadEquipment	HorsePower	63.00	97.00
tblOffRoadEquipment	HorsePower	97.00	187.00
tblOffRoadEquipment	HorsePower	65.00	247.00
tblOffRoadEquipment	LoadFactor	0.31	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.41
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Skid Steer Loaders

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	7.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblWater	OutdoorWaterUseRate	1,191,481.35	0.00

**2.0 Emissions Summary**

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Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2500e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2500e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/2/2028	5	0	
3	Grading	Grading	1/3/2028	1/31/2028	5	21	
4	Building Construction	Building Construction	2/1/2028	1/31/2028	5	0	
5	Paving	Paving	2/1/2028	1/31/2028	5	0	
6	Architectural Coating	Architectural Coating	2/1/2028	1/31/2028	5	0	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	6.00	78	0.48
Grading	Aerial Lifts	0	7.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	4.00	231	0.29

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	0	6.00	89	0.20
Grading	Tractors/Loaders/Backhoes	1	8.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Skid Steer Loaders	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**











Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2084	1.6694	1.5490	6.5800e-003		0.0640	0.0640		0.0589	0.0589		636.3550	636.3550	0.2058		641.5002
<b>Total</b>	<b>0.2084</b>	<b>1.6694</b>	<b>1.5490</b>	<b>6.5800e-003</b>	<b>0.0000</b>	<b>0.0640</b>	<b>0.0640</b>	<b>0.0000</b>	<b>0.0589</b>	<b>0.0589</b>		<b>636.3550</b>	<b>636.3550</b>	<b>0.2058</b>		<b>641.5002</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0147	6.2800e-003	0.1083	3.2000e-004	0.0411	1.7000e-004	0.0412	0.0109	1.6000e-004	0.0111		32.4324	32.4324	7.3000e-004	7.5000e-004	32.6744
<b>Total</b>	<b>0.0147</b>	<b>6.2800e-003</b>	<b>0.1083</b>	<b>3.2000e-004</b>	<b>0.0411</b>	<b>1.7000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.6000e-004</b>	<b>0.0111</b>		<b>32.4324</b>	<b>32.4324</b>	<b>7.3000e-004</b>	<b>7.5000e-004</b>	<b>32.6744</b>

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2084	1.6694	1.5490	6.5800e-003		0.0640	0.0640		0.0589	0.0589	0.0000	636.3550	636.3550	0.2058		641.5002
<b>Total</b>	<b>0.2084</b>	<b>1.6694</b>	<b>1.5490</b>	<b>6.5800e-003</b>	<b>0.0000</b>	<b>0.0640</b>	<b>0.0640</b>	<b>0.0000</b>	<b>0.0589</b>	<b>0.0589</b>	<b>0.0000</b>	<b>636.3550</b>	<b>636.3550</b>	<b>0.2058</b>		<b>641.5002</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0147	6.2800e-003	0.1083	3.2000e-004	0.0411	1.7000e-004	0.0412	0.0109	1.6000e-004	0.0111		32.4324	32.4324	7.3000e-004	7.5000e-004	32.6744
<b>Total</b>	<b>0.0147</b>	<b>6.2800e-003</b>	<b>0.1083</b>	<b>3.2000e-004</b>	<b>0.0411</b>	<b>1.7000e-004</b>	<b>0.0412</b>	<b>0.0109</b>	<b>1.6000e-004</b>	<b>0.0111</b>		<b>32.4324</b>	<b>32.4324</b>	<b>7.3000e-004</b>	<b>7.5000e-004</b>	<b>32.6744</b>















Wetland Construction Activity - El Dorado-Mountain County County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.462641	0.061170	0.222925	0.148606	0.037943	0.007861	0.011767	0.004187	0.000680	0.000539	0.034826	0.001130	0.005724

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2500e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	2.2500e-003	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Wetland Construction Activity - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 1 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	1.13	7,200.00	11

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

Woodstoves - Construction run only

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	4860	0
tblAreaCoating	Area_Residential_Interior	14580	0
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	4.00	17.00
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	2.00	9.00
tblConstructionPhase	PhaseEndDate	12/11/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	1/1/2023
tblConstructionPhase	PhaseEndDate	11/27/2023	12/6/2023
tblConstructionPhase	PhaseEndDate	1/31/2023	1/12/2023
tblConstructionPhase	PhaseStartDate	11/28/2023	12/7/2023
tblConstructionPhase	PhaseStartDate	2/1/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/2/2023
tblConsumerProducts	ROG_EF	2.14E-05	0

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	2.20	0.00
tblFireplaces	NumberWood	1.40	0.00
tblGrading	AcresOfGrading	17.00	4.00
tblGrading	AcresOfGrading	8.44	1.88
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	1.30	1.13
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.75	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	260,616.10	0.00
tblWater	OutdoorWaterUseRate	164,301.46	0.00
tblWoodstoves	NumberCatalytic	0.20	0.00
tblWoodstoves	NumberNoncatalytic	0.20	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/1/2023	5	0	
2	Site Preparation	Site Preparation	1/2/2023	1/12/2023	5	9	
3	Grading	Grading	1/13/2023	2/6/2023	5	17	

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/7/2023	11/13/2023	5	200
5	Paving	Paving	11/14/2023	12/6/2023	5	17
6	Architectural Coating	Architectural Coating	12/7/2023	12/29/2023	5	17

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 14,580; Residential Outdoor: 4,860; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37







CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.3 Site Preparation - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0247	0.0000	0.0247	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-003	0.0559	0.0299	8.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	6.8014	6.8014	2.2000e-003	0.0000	6.8564
<b>Total</b>	<b>5.1000e-003</b>	<b>0.0559</b>	<b>0.0299</b>	<b>8.0000e-005</b>	<b>0.0247</b>	<b>2.2800e-003</b>	<b>0.0270</b>	<b>0.0131</b>	<b>2.1000e-003</b>	<b>0.0152</b>	<b>0.0000</b>	<b>6.8014</b>	<b>6.8014</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>6.8564</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	1.0000e-003	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2295	0.2295	1.0000e-005	1.0000e-005	0.2319
<b>Total</b>	<b>1.3000e-004</b>	<b>9.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2295</b>	<b>0.2295</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2319</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0247	0.0000	0.0247	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-003	0.0559	0.0299	8.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	6.8014	6.8014	2.2000e-003	0.0000	6.8564
<b>Total</b>	<b>5.1000e-003</b>	<b>0.0559</b>	<b>0.0299</b>	<b>8.0000e-005</b>	<b>0.0247</b>	<b>2.2800e-003</b>	<b>0.0270</b>	<b>0.0131</b>	<b>2.1000e-003</b>	<b>0.0152</b>	<b>0.0000</b>	<b>6.8014</b>	<b>6.8014</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>6.8564</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	9.0000e-005	1.0000e-003	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2295	0.2295	1.0000e-005	1.0000e-005	0.2319
<b>Total</b>	<b>1.3000e-004</b>	<b>9.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2295</b>	<b>0.2295</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2319</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0533	0.0000	0.0533	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1230	0.0740	1.8000e-004		5.1400e-003	5.1400e-003		4.7300e-003	4.7300e-003	0.0000	15.3883	15.3883	4.9800e-003	0.0000	15.5128
<b>Total</b>	<b>0.0113</b>	<b>0.1230</b>	<b>0.0740</b>	<b>1.8000e-004</b>	<b>0.0533</b>	<b>5.1400e-003</b>	<b>0.0585</b>	<b>0.0284</b>	<b>4.7300e-003</b>	<b>0.0331</b>	<b>0.0000</b>	<b>15.3883</b>	<b>15.3883</b>	<b>4.9800e-003</b>	<b>0.0000</b>	<b>15.5128</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.0000e-004	2.3700e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5419	0.5419	2.0000e-005	2.0000e-005	0.5476
<b>Total</b>	<b>3.0000e-004</b>	<b>2.0000e-004</b>	<b>2.3700e-003</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5419</b>	<b>0.5419</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5476</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0533	0.0000	0.0533	0.0284	0.0000	0.0284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1230	0.0740	1.8000e-004		5.1400e-003	5.1400e-003		4.7300e-003	4.7300e-003	0.0000	15.3883	15.3883	4.9800e-003	0.0000	15.5127
<b>Total</b>	<b>0.0113</b>	<b>0.1230</b>	<b>0.0740</b>	<b>1.8000e-004</b>	<b>0.0533</b>	<b>5.1400e-003</b>	<b>0.0585</b>	<b>0.0284</b>	<b>4.7300e-003</b>	<b>0.0331</b>	<b>0.0000</b>	<b>15.3883</b>	<b>15.3883</b>	<b>4.9800e-003</b>	<b>0.0000</b>	<b>15.5127</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.0000e-004	2.3700e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5419	0.5419	2.0000e-005	2.0000e-005	0.5476
<b>Total</b>	<b>3.0000e-004</b>	<b>2.0000e-004</b>	<b>2.3700e-003</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5419</b>	<b>0.5419</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5476</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1523	1.1710	1.2611	2.2100e-003		0.0515	0.0515		0.0497	0.0497	0.0000	181.5991	181.5991	0.0308	0.0000	182.3701
<b>Total</b>	<b>0.1523</b>	<b>1.1710</b>	<b>1.2611</b>	<b>2.2100e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0497</b>	<b>0.0497</b>	<b>0.0000</b>	<b>181.5991</b>	<b>181.5991</b>	<b>0.0308</b>	<b>0.0000</b>	<b>182.3701</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.7800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6376	0.6376	2.0000e-005	2.0000e-005	0.6442
<b>Total</b>	<b>3.6000e-004</b>	<b>2.4000e-004</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6376</b>	<b>0.6376</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6442</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1523	1.1710	1.2611	2.2100e-003		0.0515	0.0515		0.0497	0.0497	0.0000	181.5989	181.5989	0.0308	0.0000	182.3698
<b>Total</b>	<b>0.1523</b>	<b>1.1710</b>	<b>1.2611</b>	<b>2.2100e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0497</b>	<b>0.0497</b>	<b>0.0000</b>	<b>181.5989</b>	<b>181.5989</b>	<b>0.0308</b>	<b>0.0000</b>	<b>182.3698</b>



CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.4000e-004	2.7800e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6376	0.6376	2.0000e-005	2.0000e-005	0.6442
<b>Total</b>	<b>3.6000e-004</b>	<b>2.4000e-004</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6376</b>	<b>0.6376</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6442</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4800e-003	0.0530	0.0748	1.2000e-004		2.6200e-003	2.6200e-003		2.4200e-003	2.4200e-003	0.0000	10.0066	10.0066	3.1700e-003	0.0000	10.0859
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.4800e-003</b>	<b>0.0530</b>	<b>0.0748</b>	<b>1.2000e-004</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>10.0066</b>	<b>10.0066</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>10.0859</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	3.0800e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.7045	0.7045	3.0000e-005	2.0000e-005	0.7118
<b>Total</b>	<b>3.9000e-004</b>	<b>2.6000e-004</b>	<b>3.0800e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7045</b>	<b>0.7045</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7118</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4800e-003	0.0530	0.0748	1.2000e-004		2.6200e-003	2.6200e-003		2.4200e-003	2.4200e-003	0.0000	10.0066	10.0066	3.1700e-003	0.0000	10.0859
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.4800e-003</b>	<b>0.0530</b>	<b>0.0748</b>	<b>1.2000e-004</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>10.0066</b>	<b>10.0066</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>10.0859</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	3.0800e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.7045	0.7045	3.0000e-005	2.0000e-005	0.7118
<b>Total</b>	<b>3.9000e-004</b>	<b>2.6000e-004</b>	<b>3.0800e-003</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7045</b>	<b>0.7045</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7118</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0111	0.0154	3.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	2.1703	2.1703	1.3000e-004	0.0000	2.1735
<b>Total</b>	<b>6.1400e-003</b>	<b>0.0111</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.1735</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0111	0.0154	3.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	2.1703	2.1703	1.3000e-004	0.0000	2.1735
<b>Total</b>	<b>6.1400e-003</b>	<b>0.0111</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>		<b>6.0000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.1735</b>



CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000





EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area



CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEdHSP Construction Year 1 Mitigated - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**8.2 Waste by Land Use**

Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
0	0.0000	0.0000	0.0000	0.0000
Land Use				
tons				
MT/yr				
Single Family Housing	0	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
0	0.0000	0.0000	0.0000	0.0000
Land Use				
tons				
MT/yr				
Single Family Housing	0	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 1 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	1.13	7,200.00	11

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>	2035		
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

Woodstoves - Construction run only



CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	4860	0
tblAreaCoating	Area_Residential_Interior	14580	0
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	4.00	17.00
tblConstructionPhase	NumDays	10.00	17.00
tblConstructionPhase	NumDays	2.00	9.00
tblConstructionPhase	PhaseEndDate	12/11/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	1/1/2023
tblConstructionPhase	PhaseEndDate	11/27/2023	12/6/2023
tblConstructionPhase	PhaseEndDate	1/31/2023	1/12/2023
tblConstructionPhase	PhaseStartDate	11/28/2023	12/7/2023
tblConstructionPhase	PhaseStartDate	2/1/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	1/2/2023
tblConsumerProducts	ROG_EF	2.14E-05	0

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	2.20	0.00
tblFireplaces	NumberWood	1.40	0.00
tblGrading	AcresOfGrading	17.00	4.00
tblGrading	AcresOfGrading	8.44	1.88
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	1.30	1.13
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.75	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	260,616.10	0.00
tblWater	OutdoorWaterUseRate	164,301.46	0.00
tblWoodstoves	NumberCatalytic	0.20	0.00
tblWoodstoves	NumberNoncatalytic	0.20	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5942	0.5942	5.7000e-004	0.0000	0.6084
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.8300e-003</b>	<b>3.7900e-003</b>	<b>0.3289</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.6084</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5942	0.5942	5.7000e-004	0.0000	0.6084
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.8300e-003</b>	<b>3.7900e-003</b>	<b>0.3289</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.6084</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/1/2023	5	0	
2	Site Preparation	Site Preparation	1/2/2023	1/12/2023	5	9	
3	Grading	Grading	1/13/2023	2/6/2023	5	17	
4	Building Construction	Building Construction	2/7/2023	11/13/2023	5	200	
5	Paving	Paving	11/14/2023	12/6/2023	5	17	
6	Architectural Coating	Architectural Coating	12/7/2023	12/29/2023	5	17	

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 14,580; Residential Outdoor: 4,860; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**







CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4909	0.0000	5.4909	2.9204	0.0000	2.9204			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
<b>Total</b>	<b>1.1339</b>	<b>12.4250</b>	<b>6.6420</b>	<b>0.0172</b>	<b>5.4909</b>	<b>0.5074</b>	<b>5.9982</b>	<b>2.9204</b>	<b>0.4668</b>	<b>3.3872</b>		<b>1,666.0573</b>	<b>1,666.0573</b>	<b>0.5388</b>		<b>1,679.5282</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0319	0.0166	0.2428	6.0000e-004	0.0657	3.7000e-004	0.0661	0.0174	3.4000e-004	0.0178		60.4378	60.4378	1.8800e-003	1.6400e-003	60.9735
<b>Total</b>	<b>0.0319</b>	<b>0.0166</b>	<b>0.2428</b>	<b>6.0000e-004</b>	<b>0.0657</b>	<b>3.7000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.4000e-004</b>	<b>0.0178</b>		<b>60.4378</b>	<b>60.4378</b>	<b>1.8800e-003</b>	<b>1.6400e-003</b>	<b>60.9735</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4909	0.0000	5.4909	2.9204	0.0000	2.9204			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282
<b>Total</b>	<b>1.1339</b>	<b>12.4250</b>	<b>6.6420</b>	<b>0.0172</b>	<b>5.4909</b>	<b>0.5074</b>	<b>5.9982</b>	<b>2.9204</b>	<b>0.4668</b>	<b>3.3872</b>	<b>0.0000</b>	<b>1,666.0573</b>	<b>1,666.0573</b>	<b>0.5388</b>		<b>1,679.5282</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0319	0.0166	0.2428	6.0000e-004	0.0657	3.7000e-004	0.0661	0.0174	3.4000e-004	0.0178		60.4378	60.4378	1.8800e-003	1.6400e-003	60.9735
<b>Total</b>	<b>0.0319</b>	<b>0.0166</b>	<b>0.2428</b>	<b>6.0000e-004</b>	<b>0.0657</b>	<b>3.7000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.4000e-004</b>	<b>0.0178</b>		<b>60.4378</b>	<b>60.4378</b>	<b>1.8800e-003</b>	<b>1.6400e-003</b>	<b>60.9735</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2716	0.0000	6.2716	3.3372	0.0000	3.3372			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>6.2716</b>	<b>0.6044</b>	<b>6.8760</b>	<b>3.3372</b>	<b>0.5560</b>	<b>3.8932</b>		<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0208	0.3035	7.5000e-004	0.0822	4.6000e-004	0.0826	0.0218	4.2000e-004	0.0222		75.5472	75.5472	2.3400e-003	2.0500e-003	76.2169
<b>Total</b>	<b>0.0399</b>	<b>0.0208</b>	<b>0.3035</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>4.6000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.2000e-004</b>	<b>0.0222</b>		<b>75.5472</b>	<b>75.5472</b>	<b>2.3400e-003</b>	<b>2.0500e-003</b>	<b>76.2169</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2716	0.0000	6.2716	3.3372	0.0000	3.3372			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>6.2716</b>	<b>0.6044</b>	<b>6.8760</b>	<b>3.3372</b>	<b>0.5560</b>	<b>3.8932</b>	<b>0.0000</b>	<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0399	0.0208	0.3035	7.5000e-004	0.0822	4.6000e-004	0.0826	0.0218	4.2000e-004	0.0222		75.5472	75.5472	2.3400e-003	2.0500e-003	76.2169
<b>Total</b>	<b>0.0399</b>	<b>0.0208</b>	<b>0.3035</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>4.6000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.2000e-004</b>	<b>0.0222</b>		<b>75.5472</b>	<b>75.5472</b>	<b>2.3400e-003</b>	<b>2.0500e-003</b>	<b>76.2169</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>		<b>2,001.7877</b>	<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9900e-003	2.0800e-003	0.0304	7.0000e-005	8.2100e-003	5.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.5547	7.5547	2.3000e-004	2.1000e-004	7.6217
<b>Total</b>	<b>3.9900e-003</b>	<b>2.0800e-003</b>	<b>0.0304</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>5.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.5547</b>	<b>7.5547</b>	<b>2.3000e-004</b>	<b>2.1000e-004</b>	<b>7.6217</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
<b>Total</b>	<b>1.5233</b>	<b>11.7104</b>	<b>12.6111</b>	<b>0.0221</b>		<b>0.5145</b>	<b>0.5145</b>		<b>0.4968</b>	<b>0.4968</b>	<b>0.0000</b>	<b>2,001.7877</b>	<b>2,001.7877</b>	<b>0.3399</b>		<b>2,010.2858</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9900e-003	2.0800e-003	0.0304	7.0000e-005	8.2100e-003	5.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.5547	7.5547	2.3000e-004	2.1000e-004	7.6217
<b>Total</b>	<b>3.9900e-003</b>	<b>2.0800e-003</b>	<b>0.0304</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>5.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.5547</b>	<b>7.5547</b>	<b>2.3000e-004</b>	<b>2.1000e-004</b>	<b>7.6217</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6446</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>		<b>1,297.6880</b>	<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0270	0.3945	9.7000e-004	0.1068	6.0000e-004	0.1074	0.0283	5.5000e-004	0.0289		98.2114	98.2114	3.0500e-003	2.6700e-003	99.0820
<b>Total</b>	<b>0.0518</b>	<b>0.0270</b>	<b>0.3945</b>	<b>9.7000e-004</b>	<b>0.1068</b>	<b>6.0000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.5000e-004</b>	<b>0.0289</b>		<b>98.2114</b>	<b>98.2114</b>	<b>3.0500e-003</b>	<b>2.6700e-003</b>	<b>99.0820</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297.6880	1,297.6880	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6446</b>	<b>6.2357</b>	<b>8.8024</b>	<b>0.0136</b>		<b>0.3084</b>	<b>0.3084</b>		<b>0.2846</b>	<b>0.2846</b>	<b>0.0000</b>	<b>1,297.6880</b>	<b>1,297.6880</b>	<b>0.4114</b>		<b>1,307.9725</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0518	0.0270	0.3945	9.7000e-004	0.1068	6.0000e-004	0.1074	0.0283	5.5000e-004	0.0289		98.2114	98.2114	3.0500e-003	2.6700e-003	99.0820
<b>Total</b>	<b>0.0518</b>	<b>0.0270</b>	<b>0.3945</b>	<b>9.7000e-004</b>	<b>0.1068</b>	<b>6.0000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.5000e-004</b>	<b>0.0289</b>		<b>98.2114</b>	<b>98.2114</b>	<b>3.0500e-003</b>	<b>2.6700e-003</b>	<b>99.0820</b>



CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.5300					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>0.7217</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.5300					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>0.7217</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5942	0.5942	5.7000e-004	0.0000	0.6084
Unmitigated	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	0.5942	0.5942	5.7000e-004	0.0000	0.6084

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		0.5942	0.5942	5.7000e-004		0.6084
<b>Total</b>	<b>9.8300e-003</b>	<b>3.7900e-003</b>	<b>0.3289</b>	<b>2.0000e-005</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.6084</b>

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.8300e-003	3.7900e-003	0.3289	2.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		0.5942	0.5942	5.7000e-004		0.6084
<b>Total</b>	<b>9.8300e-003</b>	<b>3.7900e-003</b>	<b>0.3289</b>	<b>2.0000e-005</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>0.6084</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 1 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 2 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - . Construction run only

Woodstoves - . Construction run only

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only

Area Coating - . Construction run only

Landscape Equipment - . Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	21870	0
tblAreaCoating	Area_Residential_Interior	65610	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	3/21/2025	12/27/2024
tblConstructionPhase	PhaseEndDate	1/24/2025	11/11/2024
tblConstructionPhase	PhaseEndDate	1/26/2024	12/31/2023
tblConstructionPhase	PhaseEndDate	3/8/2024	2/5/2024
tblConstructionPhase	PhaseEndDate	2/21/2025	12/4/2024
tblConstructionPhase	PhaseEndDate	2/9/2024	1/11/2024
tblConstructionPhase	PhaseStartDate	2/22/2025	12/5/2024

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/9/2024	2/6/2024
tblConstructionPhase	PhaseStartDate	2/10/2024	1/12/2024
tblConstructionPhase	PhaseStartDate	1/25/2025	11/12/2024
tblConstructionPhase	PhaseStartDate	1/27/2024	1/1/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	17.00	20.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2024	0.2069	1.7172	1.9915	3.4500e-003	0.1598	0.0776	0.2374	0.0772	0.0727	0.1499	0.0000	298.3285	298.3285	0.0727	8.1000e-004	300.3876
Maximum	0.2069	1.7172	1.9915	3.4500e-003	0.1598	0.0776	0.2374	0.0772	0.0727	0.1499	0.0000	298.3285	298.3285	0.0727	8.1000e-004	300.3876
tons/yr											MT/yr					

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2024	0.2069	1.7172	1.9915	3.4500e-003	0.1598	0.0776	0.2374	0.0772	0.0727	0.1499	0.0000	298.3281	298.3281	0.0727	8.1000e-004	300.3873
Maximum	0.2069	1.7172	1.9915	3.4500e-003	0.1598	0.0776	0.2374	0.0772	0.0727	0.1499	0.0000	298.3281	298.3281	0.0727	8.1000e-004	300.3873
tons/yr											MT/yr					



CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	12/31/2023	5	0	
2	Site Preparation	Site Preparation	1/1/2024	1/11/2024	5	9	
3	Grading	Grading	1/12/2024	2/5/2024	5	17	

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2024	11/11/2024	5	200
5	Paving	Paving	11/12/2024	12/4/2024	5	17
6	Architectural Coating	Architectural Coating	12/5/2024	12/27/2024	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

**Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Welders	1	8.00	46	0.45
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.1223	0.0825	1.7000e-004		5.5300e-003	5.5300e-003		5.0900e-003	5.0900e-003	0.0000	15.0557	15.0557	4.8700e-003	0.0000	15.1774
<b>Total</b>	<b>0.0120</b>	<b>0.1223</b>	<b>0.0825</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>5.5300e-003</b>	<b>0.0948</b>	<b>0.0456</b>	<b>5.0900e-003</b>	<b>0.0506</b>	<b>0.0000</b>	<b>15.0557</b>	<b>15.0557</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1774</b>



CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.7000e-004	2.0900e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5003	0.5003	2.0000e-005	2.0000e-005	0.5053
<b>Total</b>	<b>2.7000e-004</b>	<b>1.7000e-004</b>	<b>2.0900e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5003</b>	<b>0.5003</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5053</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.1223	0.0825	1.7000e-004		5.5300e-003	5.5300e-003		5.0900e-003	5.0900e-003	0.0000	15.0557	15.0557	4.8700e-003	0.0000	15.1774
<b>Total</b>	<b>0.0120</b>	<b>0.1223</b>	<b>0.0825</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>5.5300e-003</b>	<b>0.0948</b>	<b>0.0456</b>	<b>5.0900e-003</b>	<b>0.0506</b>	<b>0.0000</b>	<b>15.0557</b>	<b>15.0557</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1774</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.7000e-004	2.0900e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5003	0.5003	2.0000e-005	2.0000e-005	0.5053
<b>Total</b>	<b>2.7000e-004</b>	<b>1.7000e-004</b>	<b>2.0900e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5003</b>	<b>0.5003</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5053</b>

**3.4 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0618	0.0000	0.0618	0.0293	0.0000	0.0293	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0141	0.1448	0.1255	2.5000e-004		6.1600e-003	6.1600e-003		5.6600e-003	5.6600e-003	0.0000	22.1543	22.1543	7.1700e-003	0.0000	22.3335
<b>Total</b>	<b>0.0141</b>	<b>0.1448</b>	<b>0.1255</b>	<b>2.5000e-004</b>	<b>0.0618</b>	<b>6.1600e-003</b>	<b>0.0680</b>	<b>0.0293</b>	<b>5.6600e-003</b>	<b>0.0349</b>	<b>0.0000</b>	<b>22.1543</b>	<b>22.1543</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>22.3335</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.2900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7875	0.7875	3.0000e-005	2.0000e-005	0.7954
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7875</b>	<b>0.7875</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7954</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0618	0.0000	0.0618	0.0293	0.0000	0.0293	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0141	0.1448	0.1255	2.5000e-004		6.1600e-003	6.1600e-003		5.6600e-003	5.6600e-003	0.0000	22.1543	22.1543	7.1700e-003	0.0000	22.3334
<b>Total</b>	<b>0.0141</b>	<b>0.1448</b>	<b>0.1255</b>	<b>2.5000e-004</b>	<b>0.0618</b>	<b>6.1600e-003</b>	<b>0.0680</b>	<b>0.0293</b>	<b>5.6600e-003</b>	<b>0.0349</b>	<b>0.0000</b>	<b>22.1543</b>	<b>22.1543</b>	<b>7.1700e-003</b>	<b>0.0000</b>	<b>22.3334</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.2900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7875	0.7875	3.0000e-005	2.0000e-005	0.7954
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7875</b>	<b>0.7875</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7954</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8491	231.8491	0.0548	0.0000	233.2198
<b>Total</b>	<b>0.1472</b>	<b>1.3444</b>	<b>1.6167</b>	<b>2.7000e-003</b>		<b>0.0613</b>	<b>0.0613</b>		<b>0.0577</b>	<b>0.0577</b>	<b>0.0000</b>	<b>231.8491</b>	<b>231.8491</b>	<b>0.0548</b>	<b>0.0000</b>	<b>233.2198</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	0.0125	2.8100e-003	4.0000e-005	1.3000e-003	7.0000e-005	1.3700e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	4.2426	4.2426	1.0000e-005	6.3000e-004	4.4316
Worker	2.0100e-003	1.2700e-003	0.0155	4.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7061	3.7061	1.3000e-004	1.1000e-004	3.7429
<b>Total</b>	<b>2.2900e-003</b>	<b>0.0138</b>	<b>0.0183</b>	<b>8.0000e-005</b>	<b>6.0200e-003</b>	<b>1.0000e-004</b>	<b>6.1200e-003</b>	<b>1.6400e-003</b>	<b>8.0000e-005</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>7.9487</b>	<b>7.9487</b>	<b>1.4000e-004</b>	<b>7.4000e-004</b>	<b>8.1745</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1472	1.3444	1.6167	2.7000e-003		0.0613	0.0613		0.0577	0.0577	0.0000	231.8488	231.8488	0.0548	0.0000	233.2195
<b>Total</b>	<b>0.1472</b>	<b>1.3444</b>	<b>1.6167</b>	<b>2.7000e-003</b>		<b>0.0613</b>	<b>0.0613</b>		<b>0.0577</b>	<b>0.0577</b>	<b>0.0000</b>	<b>231.8488</b>	<b>231.8488</b>	<b>0.0548</b>	<b>0.0000</b>	<b>233.2195</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	0.0125	2.8100e-003	4.0000e-005	1.3000e-003	7.0000e-005	1.3700e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	4.2426	4.2426	1.0000e-005	6.3000e-004	4.4316
Worker	2.0100e-003	1.2700e-003	0.0155	4.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7061	3.7061	1.3000e-004	1.1000e-004	3.7429
<b>Total</b>	<b>2.2900e-003</b>	<b>0.0138</b>	<b>0.0183</b>	<b>8.0000e-005</b>	<b>6.0200e-003</b>	<b>1.0000e-004</b>	<b>6.1200e-003</b>	<b>1.6400e-003</b>	<b>8.0000e-005</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>7.9487</b>	<b>7.9487</b>	<b>1.4000e-004</b>	<b>7.4000e-004</b>	<b>8.1745</b>

**3.6 Paving - 2024**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4000e-003	0.0810	0.1243	1.9000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	17.0226	17.0226	5.5100e-003	0.0000	17.1602
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4000e-003</b>	<b>0.0810</b>	<b>0.1243</b>	<b>1.9000e-004</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>17.0226</b>	<b>17.0226</b>	<b>5.5100e-003</b>	<b>0.0000</b>	<b>17.1602</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.2900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7875	0.7875	3.0000e-005	2.0000e-005	0.7954
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7875</b>	<b>0.7875</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7954</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4000e-003	0.0810	0.1243	1.9000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	17.0225	17.0225	5.5100e-003	0.0000	17.1602
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4000e-003</b>	<b>0.0810</b>	<b>0.1243</b>	<b>1.9000e-004</b>		<b>3.9800e-003</b>	<b>3.9800e-003</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>17.0225</b>	<b>17.0225</b>	<b>5.5100e-003</b>	<b>0.0000</b>	<b>17.1602</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.7000e-004	3.2900e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.7875	0.7875	3.0000e-005	2.0000e-005	0.7954
<b>Total</b>	<b>4.3000e-004</b>	<b>2.7000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7875</b>	<b>0.7875</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7954</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0203					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0104	0.0154	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1733
<b>Total</b>	<b>0.0218</b>	<b>0.0104</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1733</b>



CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0525	0.0525	0.0000	0.0000	0.0530
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0525</b>	<b>0.0525</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0530</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0203					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0104	0.0154	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1733
<b>Total</b>	<b>0.0218</b>	<b>0.0104</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>		<b>5.2000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1733</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0525	0.0525	0.0000	0.0000	0.0530
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0525</b>	<b>0.0525</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0530</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area



CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0	0.0000	0.0000	0.0000	0.0000
Single Family Housing				0.0000
Total	0.0000	0.0000	0.0000	0.0000

**Mitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0	0.0000	0.0000	0.0000	0.0000
Single Family Housing				0.0000
Total	0.0000	0.0000	0.0000	0.0000

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 2 Mitigated  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - . Construction run only

Woodstoves - . Construction run only

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only

Area Coating - . Construction run only

Landscape Equipment - . Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	21870	0
tblAreaCoating	Area_Residential_Interior	65610	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	3/21/2025	12/27/2024
tblConstructionPhase	PhaseEndDate	1/24/2025	11/11/2024
tblConstructionPhase	PhaseEndDate	1/26/2024	12/31/2023
tblConstructionPhase	PhaseEndDate	3/8/2024	2/5/2024
tblConstructionPhase	PhaseEndDate	2/21/2025	12/4/2024
tblConstructionPhase	PhaseEndDate	2/9/2024	1/11/2024
tblConstructionPhase	PhaseStartDate	2/22/2025	12/5/2024

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/9/2024	2/6/2024
tblConstructionPhase	PhaseStartDate	2/10/2024	1/12/2024
tblConstructionPhase	PhaseStartDate	1/25/2025	11/12/2024
tblConstructionPhase	PhaseStartDate	1/27/2024	1/1/2024
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	17.00	20.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

CEFHSP Construction Year 2 Mitigated - El Dorado-Mountain County, Summer  
 EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2024	2.7282	27.2094	18.8406	0.0394	19.9816	1.2301	21.2118	10.1608	1.1317	11.2925	0.0000	3,819.725	3,819.725	1.1966	8.1100e-003	3,850.662
Maximum	2.7282	27.2094	18.8406	0.0394	19.9816	1.2301	21.2118	10.1608	1.1317	11.2925	0.0000	3,819.725	3,819.725	1.1966	8.1100e-003	3,850.662

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2024	2.7282	27.2094	18.8406	0.0394	19.9816	1.2301	21.2118	10.1608	1.1317	11.2925	0.0000	3,819.725	3,819.725	1.1966	8.1100e-003	3,850.662
Maximum	2.7282	27.2094	18.8406	0.0394	19.9816	1.2301	21.2118	10.1608	1.1317	11.2925	0.0000	3,819.725	3,819.725	1.1966	8.1100e-003	3,850.662





CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	2.6739	2.6739	2.5500e-003	0.0000	2.7376
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0443</b>	<b>0.0171</b>	<b>1.4798</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>2.6739</b>	<b>2.6739</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>2.7376</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	2.6739	2.6739	2.5500e-003	0.0000	2.7376
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0443</b>	<b>0.0171</b>	<b>1.4798</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>2.6739</b>	<b>2.6739</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>2.7376</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	12/31/2023	5	0	
2	Site Preparation	Site Preparation	1/1/2024	1/11/2024	5	9	
3	Grading	Grading	1/12/2024	2/5/2024	5	17	
4	Building Construction	Building Construction	2/6/2024	11/11/2024	5	200	
5	Paving	Paving	11/12/2024	12/4/2024	5	17	
6	Architectural Coating	Architectural Coating	12/5/2024	12/27/2024	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 20**

**Acres of Paving: 0**

**Residential Indoor: 65,610; Residential Outdoor: 21,870; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.2294</b>	<b>21.0631</b>	<b>10.1215</b>	<b>1.1310</b>	<b>11.2525</b>		<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0673	0.0334	0.5050	1.3000e-003	0.1479	7.8000e-004	0.1487	0.0392	7.2000e-004	0.0399		131.7153	131.7153	3.8200e-003	3.4300e-003	132.8331
<b>Total</b>	<b>0.0673</b>	<b>0.0334</b>	<b>0.5050</b>	<b>1.3000e-003</b>	<b>0.1479</b>	<b>7.8000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.2000e-004</b>	<b>0.0399</b>		<b>131.7153</b>	<b>131.7153</b>	<b>3.8200e-003</b>	<b>3.4300e-003</b>	<b>132.8331</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.2294</b>	<b>21.0631</b>	<b>10.1215</b>	<b>1.1310</b>	<b>11.2525</b>	<b>0.0000</b>	<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0673	0.0334	0.5050	1.3000e-003	0.1479	7.8000e-004	0.1487	0.0392	7.2000e-004	0.0399		131.7153	131.7153	3.8200e-003	3.4300e-003	132.8331
<b>Total</b>	<b>0.0673</b>	<b>0.0334</b>	<b>0.5050</b>	<b>1.3000e-003</b>	<b>0.1479</b>	<b>7.8000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.2000e-004</b>	<b>0.0399</b>		<b>131.7153</b>	<b>131.7153</b>	<b>3.8200e-003</b>	<b>3.4300e-003</b>	<b>132.8331</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2697	0.0000	7.2697	3.4449	0.0000	3.4449			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>1.6617</b>	<b>17.0310</b>	<b>14.7594</b>	<b>0.0297</b>	<b>7.2697</b>	<b>0.7244</b>	<b>7.9942</b>	<b>3.4449</b>	<b>0.6665</b>	<b>4.1114</b>		<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2697	0.0000	7.2697	3.4449	0.0000	3.4449			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>1.6617</b>	<b>17.0310</b>	<b>14.7594</b>	<b>0.0297</b>	<b>7.2697</b>	<b>0.7244</b>	<b>7.9942</b>	<b>3.4449</b>	<b>0.6665</b>	<b>4.1114</b>	<b>0.0000</b>	<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>



CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-003	0.1203	0.0276	4.4000e-004	0.0135	6.6000e-004	0.0142	3.8800e-003	6.3000e-004	4.5200e-003		46.7532	46.7532	1.5000e-004	6.9700e-003	48.8342
Worker	0.0224	0.0111	0.1683	4.3000e-004	0.0493	2.6000e-004	0.0496	0.0131	2.4000e-004	0.0133		43.9051	43.9051	1.2700e-003	1.1400e-003	44.2777
<b>Total</b>	<b>0.0252</b>	<b>0.1315</b>	<b>0.1960</b>	<b>8.7000e-004</b>	<b>0.0628</b>	<b>9.2000e-004</b>	<b>0.0637</b>	<b>0.0170</b>	<b>8.7000e-004</b>	<b>0.0178</b>		<b>90.6583</b>	<b>90.6583</b>	<b>1.4200e-003</b>	<b>8.1100e-003</b>	<b>93.1119</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-003	0.1203	0.0276	4.4000e-004	0.0135	6.6000e-004	0.0142	3.8800e-003	6.3000e-004	4.5200e-003		46.7532	46.7532	1.5000e-004	6.9700e-003	48.8342
Worker	0.0224	0.0111	0.1683	4.3000e-004	0.0493	2.6000e-004	0.0496	0.0131	2.4000e-004	0.0133		43.9051	43.9051	1.2700e-003	1.1400e-003	44.2777
<b>Total</b>	<b>0.0252</b>	<b>0.1315</b>	<b>0.1960</b>	<b>8.7000e-004</b>	<b>0.0628</b>	<b>9.2000e-004</b>	<b>0.0637</b>	<b>0.0170</b>	<b>8.7000e-004</b>	<b>0.0178</b>		<b>90.6583</b>	<b>90.6583</b>	<b>1.4200e-003</b>	<b>8.1100e-003</b>	<b>93.1119</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9882</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9882</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.547 2</b>	<b>2,207.547 2</b>	<b>0.7140</b>		<b>2,225.396 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3851					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.5659</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7400e-003	1.8600e-003	0.0281	7.0000e-005	8.2100e-003	4.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.3175	7.3175	2.1000e-004	1.9000e-004	7.3796
<b>Total</b>	<b>3.7400e-003</b>	<b>1.8600e-003</b>	<b>0.0281</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>4.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.3175</b>	<b>7.3175</b>	<b>2.1000e-004</b>	<b>1.9000e-004</b>	<b>7.3796</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3851					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.5659</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7400e-003	1.8600e-003	0.0281	7.0000e-005	8.2100e-003	4.0000e-005	8.2600e-003	2.1800e-003	4.0000e-005	2.2200e-003		7.3175	7.3175	2.1000e-004	1.9000e-004	7.3796
<b>Total</b>	<b>3.7400e-003</b>	<b>1.8600e-003</b>	<b>0.0281</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>4.0000e-005</b>	<b>8.2600e-003</b>	<b>2.1800e-003</b>	<b>4.0000e-005</b>	<b>2.2200e-003</b>		<b>7.3175</b>	<b>7.3175</b>	<b>2.1000e-004</b>	<b>1.9000e-004</b>	<b>7.3796</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	2.6739	2.6739	2.5500e-003	0.0000	2.7376
Unmitigated	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	2.6739	2.6739	2.5500e-003	0.0000	2.7376

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003		2.6739	2.6739	2.5500e-003		2.7376
<b>Total</b>	<b>0.0443</b>	<b>0.0171</b>	<b>1.4798</b>	<b>8.0000e-005</b>		<b>8.2400e-003</b>	<b>8.2400e-003</b>		<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>2.6739</b>	<b>2.6739</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>2.7376</b>

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0443	0.0171	1.4798	8.0000e-005		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003		2.6739	2.6739	2.5500e-003		2.7376
<b>Total</b>	<b>0.0443</b>	<b>0.0171</b>	<b>1.4798</b>	<b>8.0000e-005</b>		<b>8.2400e-003</b>	<b>8.2400e-003</b>		<b>8.2400e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>2.6739</b>	<b>2.6739</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>2.7376</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 2 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 3 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>		2035	
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Solid Waste - Construction run only

Water And Wastewater - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/14/2026	12/30/2025
tblConstructionPhase	PhaseEndDate	5/19/2026	11/12/2025
tblConstructionPhase	PhaseEndDate	1/28/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	3/25/2025	2/5/2025
tblConstructionPhase	PhaseEndDate	6/16/2026	12/5/2025

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	2/11/2025	1/13/2025
tblConstructionPhase	PhaseStartDate	6/17/2026	12/8/2025
tblConstructionPhase	PhaseStartDate	3/26/2025	2/6/2025
tblConstructionPhase	PhaseStartDate	2/12/2025	1/14/2025
tblConstructionPhase	PhaseStartDate	5/20/2026	11/13/2025
tblConstructionPhase	PhaseStartDate	1/29/2025	1/1/2025
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00



CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2025	12/31/2024	5	0	
2	Site Preparation	Site Preparation	1/1/2025	1/13/2025	5	9	
3	Grading	Grading	1/14/2025	2/5/2025	5	17	

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2025	11/12/2025	5	200
5	Paving	Paving	11/13/2025	12/5/2025	5	17
6	Architectural Coating	Architectural Coating	12/8/2025	12/30/2025	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.5000e-004	1.9400e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4841	0.4841	2.0000e-005	1.0000e-005	0.4888
<b>Total</b>	<b>2.5000e-004</b>	<b>1.5000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4841</b>	<b>0.4841</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4888</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.5000e-004	1.9400e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4841	0.4841	2.0000e-005	1.0000e-005	0.4888
<b>Total</b>	<b>2.5000e-004</b>	<b>1.5000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4841</b>	<b>0.4841</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4888</b>

**3.4 Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>



CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.2000e-004	4.0800e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	1.0161	1.0161	3.0000e-005	3.0000e-005	1.0258
<b>Total</b>	<b>5.4000e-004</b>	<b>3.2000e-004</b>	<b>4.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3500e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0161</b>	<b>1.0161</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0258</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.2000e-004	4.0800e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	1.0161	1.0161	3.0000e-005	3.0000e-005	1.0258
<b>Total</b>	<b>5.4000e-004</b>	<b>3.2000e-004</b>	<b>4.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3500e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0161</b>	<b>1.0161</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0258</b>

**3.5 Building Construction - 2025**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0847	0.0194	3.1000e-004	9.1200e-003	4.5000e-004	9.5700e-003	2.6400e-003	4.3000e-004	3.0700e-003	0.0000	29.2198	29.2198	9.0000e-005	4.3400e-003	30.5162
Worker	0.0280	0.0169	0.2134	5.8000e-004	0.0701	3.7000e-004	0.0704	0.0186	3.4000e-004	0.0190	0.0000	53.1952	53.1952	1.6900e-003	1.5600e-003	53.7036
<b>Total</b>	<b>0.0299</b>	<b>0.1016</b>	<b>0.2328</b>	<b>8.9000e-004</b>	<b>0.0792</b>	<b>8.2000e-004</b>	<b>0.0800</b>	<b>0.0213</b>	<b>7.7000e-004</b>	<b>0.0221</b>	<b>0.0000</b>	<b>82.4150</b>	<b>82.4150</b>	<b>1.7800e-003</b>	<b>5.9000e-003</b>	<b>84.2199</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8700e-003	0.0847	0.0194	3.1000e-004	9.1200e-003	4.5000e-004	9.5700e-003	2.6400e-003	4.3000e-004	3.0700e-003	0.0000	29.2198	29.2198	9.0000e-005	4.3400e-003	30.5162
Worker	0.0280	0.0169	0.2134	5.8000e-004	0.0701	3.7000e-004	0.0704	0.0186	3.4000e-004	0.0190	0.0000	53.1952	53.1952	1.6900e-003	1.5600e-003	53.7036
<b>Total</b>	<b>0.0299</b>	<b>0.1016</b>	<b>0.2328</b>	<b>8.9000e-004</b>	<b>0.0792</b>	<b>8.2000e-004</b>	<b>0.0800</b>	<b>0.0213</b>	<b>7.7000e-004</b>	<b>0.0221</b>	<b>0.0000</b>	<b>82.4150</b>	<b>82.4150</b>	<b>1.7800e-003</b>	<b>5.9000e-003</b>	<b>84.2199</b>

**3.6 Paving - 2025**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.4000e-004	3.0600e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7621	0.7621	2.0000e-005	2.0000e-005	0.7694
<b>Total</b>	<b>4.0000e-004</b>	<b>2.4000e-004</b>	<b>3.0600e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7694</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.4000e-004	3.0600e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7621	0.7621	2.0000e-005	2.0000e-005	0.7694
<b>Total</b>	<b>4.0000e-004</b>	<b>2.4000e-004</b>	<b>3.0600e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7621</b>	<b>0.7621</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7694</b>

**3.7 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0937</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9145	0.9145	3.0000e-005	3.0000e-005	0.9232
<b>Total</b>	<b>4.8000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9145</b>	<b>0.9145</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9232</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0937</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9145	0.9145	3.0000e-005	3.0000e-005	0.9232
<b>Total</b>	<b>4.8000e-004</b>	<b>2.9000e-004</b>	<b>3.6700e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9145</b>	<b>0.9145</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9232</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000





CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**



CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 3 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>	2035		
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Solid Waste - Construction run only

Water And Wastewater - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/14/2026	12/30/2025
tblConstructionPhase	PhaseEndDate	5/19/2026	11/12/2025
tblConstructionPhase	PhaseEndDate	1/28/2025	12/31/2024
tblConstructionPhase	PhaseEndDate	3/25/2025	2/5/2025
tblConstructionPhase	PhaseEndDate	6/16/2026	12/5/2025

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	2/11/2025	1/13/2025
tblConstructionPhase	PhaseStartDate	6/17/2026	12/8/2025
tblConstructionPhase	PhaseStartDate	3/26/2025	2/6/2025
tblConstructionPhase	PhaseStartDate	2/12/2025	1/14/2025
tblConstructionPhase	PhaseStartDate	5/20/2026	11/13/2025
tblConstructionPhase	PhaseStartDate	1/29/2025	1/1/2025
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00



CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2025	12/31/2024	5	0	
2	Site Preparation	Site Preparation	1/1/2025	1/13/2025	5	9	
3	Grading	Grading	1/14/2025	2/5/2025	5	17	
4	Building Construction	Building Construction	2/6/2025	11/12/2025	5	200	
5	Paving	Paving	11/13/2025	12/5/2025	5	17	
6	Architectural Coating	Architectural Coating	12/8/2025	12/30/2025	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0300	0.4691	1.2600e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		127.4320	127.4320	3.4700e-003	3.2000e-003	128.4728
<b>Total</b>	<b>0.0632</b>	<b>0.0300</b>	<b>0.4691</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>7.4000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>127.4320</b>	<b>127.4320</b>	<b>3.4700e-003</b>	<b>3.2000e-003</b>	<b>128.4728</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0300	0.4691	1.2600e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		127.4320	127.4320	3.4700e-003	3.2000e-003	128.4728
<b>Total</b>	<b>0.0632</b>	<b>0.0300</b>	<b>0.4691</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>7.4000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>127.4320</b>	<b>127.4320</b>	<b>3.4700e-003</b>	<b>3.2000e-003</b>	<b>128.4728</b>



CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0703	0.0334	0.5212	1.4000e-003	0.1643	8.2000e-004	0.1651	0.0436	7.6000e-004	0.0443		141.5912	141.5912	3.8500e-003	3.5600e-003	142.7476
<b>Total</b>	<b>0.0703</b>	<b>0.0334</b>	<b>0.5212</b>	<b>1.4000e-003</b>	<b>0.1643</b>	<b>8.2000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.6000e-004</b>	<b>0.0443</b>		<b>141.5912</b>	<b>141.5912</b>	<b>3.8500e-003</b>	<b>3.5600e-003</b>	<b>142.7476</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0703	0.0334	0.5212	1.4000e-003	0.1643	8.2000e-004	0.1651	0.0436	7.6000e-004	0.0443		141.5912	141.5912	3.8500e-003	3.5600e-003	142.7476
<b>Total</b>	<b>0.0703</b>	<b>0.0334</b>	<b>0.5212</b>	<b>1.4000e-003</b>	<b>0.1643</b>	<b>8.2000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.6000e-004</b>	<b>0.0443</b>		<b>141.5912</b>	<b>141.5912</b>	<b>3.8500e-003</b>	<b>3.5600e-003</b>	<b>142.7476</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0190	0.8159	0.1903	3.0500e-003	0.0945	4.4600e-003	0.0989	0.0272	4.2700e-003	0.0314		321.9889	321.9889	1.0000e-003	0.0478	336.2650
Worker	0.3127	0.1485	2.3195	6.2300e-003	0.7311	3.6600e-003	0.7348	0.1939	3.3700e-003	0.1973		630.0806	630.0806	0.0171	0.0158	635.2267
<b>Total</b>	<b>0.3317</b>	<b>0.9643</b>	<b>2.5098</b>	<b>9.2800e-003</b>	<b>0.8256</b>	<b>8.1200e-003</b>	<b>0.8337</b>	<b>0.2211</b>	<b>7.6400e-003</b>	<b>0.2287</b>		<b>952.0696</b>	<b>952.0696</b>	<b>0.0181</b>	<b>0.0637</b>	<b>971.4916</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2025**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0190	0.8159	0.1903	3.0500e-003	0.0945	4.4600e-003	0.0989	0.0272	4.2700e-003	0.0314		321.9889	321.9889	1.0000e-003	0.0478	336.2650
Worker	0.3127	0.1485	2.3195	6.2300e-003	0.7311	3.6600e-003	0.7348	0.1939	3.3700e-003	0.1973		630.0806	630.0806	0.0171	0.0158	635.2267
<b>Total</b>	<b>0.3317</b>	<b>0.9643</b>	<b>2.5098</b>	<b>9.2800e-003</b>	<b>0.8256</b>	<b>8.1200e-003</b>	<b>0.8337</b>	<b>0.2211</b>	<b>7.6400e-003</b>	<b>0.2287</b>		<b>952.0696</b>	<b>952.0696</b>	<b>0.0181</b>	<b>0.0637</b>	<b>971.4916</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0527	0.0250	0.3909	1.0500e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		106.1934	106.1934	2.8900e-003	2.6700e-003	107.0607
<b>Total</b>	<b>0.0527</b>	<b>0.0250</b>	<b>0.3909</b>	<b>1.0500e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>106.1934</b>	<b>106.1934</b>	<b>2.8900e-003</b>	<b>2.6700e-003</b>	<b>107.0607</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0527	0.0250	0.3909	1.0500e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		106.1934	106.1934	2.8900e-003	2.6700e-003	107.0607
<b>Total</b>	<b>0.0527</b>	<b>0.0250</b>	<b>0.3909</b>	<b>1.0500e-003</b>	<b>0.1232</b>	<b>6.2000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.7000e-004</b>	<b>0.0333</b>		<b>106.1934</b>	<b>106.1934</b>	<b>2.8900e-003</b>	<b>2.6700e-003</b>	<b>107.0607</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.8508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>11.0217</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0300	0.4691	1.2600e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		127.4320	127.4320	3.4700e-003	3.2000e-003	128.4728
<b>Total</b>	<b>0.0632</b>	<b>0.0300</b>	<b>0.4691</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>7.4000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>127.4320</b>	<b>127.4320</b>	<b>3.4700e-003</b>	<b>3.2000e-003</b>	<b>128.4728</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.8508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>11.0217</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0300	0.4691	1.2600e-003	0.1479	7.4000e-004	0.1486	0.0392	6.8000e-004	0.0399		127.4320	127.4320	3.4700e-003	3.2000e-003	128.4728
<b>Total</b>	<b>0.0632</b>	<b>0.0300</b>	<b>0.4691</b>	<b>1.2600e-003</b>	<b>0.1479</b>	<b>7.4000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>127.4320</b>	<b>127.4320</b>	<b>3.4700e-003</b>	<b>3.2000e-003</b>	<b>128.4728</b>



CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Unmitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 3 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 4 Mitigated  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>		2035	
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default



CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Energy Use - Construction run only.

Water And Wastewater - Construction run only.

Solid Waste - Construction run only.

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/14/2027	12/30/2026
tblConstructionPhase	PhaseEndDate	5/19/2027	11/12/2026
tblConstructionPhase	PhaseEndDate	1/28/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	3/25/2026	2/5/2026
tblConstructionPhase	PhaseEndDate	6/16/2027	12/7/2026

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	2/11/2026	1/13/2026
tblConstructionPhase	PhaseStartDate	6/17/2027	12/8/2026
tblConstructionPhase	PhaseStartDate	3/26/2026	2/6/2026
tblConstructionPhase	PhaseStartDate	2/12/2026	1/14/2026
tblConstructionPhase	PhaseStartDate	5/20/2027	11/13/2026
tblConstructionPhase	PhaseStartDate	1/29/2026	1/1/2026
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	12/31/2025	5	0	
2	Site Preparation	Site Preparation	1/1/2026	1/13/2026	5	9	
3	Grading	Grading	1/14/2026	2/5/2026	5	17	

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2026	11/12/2026	5	200
5	Paving	Paving	11/13/2026	12/7/2026	5	17
6	Architectural Coating	Architectural Coating	12/8/2026	12/30/2026	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37



CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.8200e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4695	0.4695	1.0000e-005	1.0000e-005	0.4738
<b>Total</b>	<b>2.4000e-004</b>	<b>1.4000e-004</b>	<b>1.8200e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4695</b>	<b>0.4695</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4738</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.8200e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4695	0.4695	1.0000e-005	1.0000e-005	0.4738
<b>Total</b>	<b>2.4000e-004</b>	<b>1.4000e-004</b>	<b>1.8200e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4695</b>	<b>0.4695</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4738</b>

**3.4 Grading - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.9000e-004	3.8200e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9853	0.9853	3.0000e-005	3.0000e-005	0.9944
<b>Total</b>	<b>5.0000e-004</b>	<b>2.9000e-004</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9853</b>	<b>0.9853</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9944</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2026**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	2.9000e-004	3.8200e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9853	0.9853	3.0000e-005	3.0000e-005	0.9944
<b>Total</b>	<b>5.0000e-004</b>	<b>2.9000e-004</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9853</b>	<b>0.9853</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9944</b>

**3.5 Building Construction - 2026**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8100e-003	0.0818	0.0191	3.0000e-004	9.1300e-003	4.3000e-004	9.5500e-003	2.6400e-003	4.1000e-004	3.0500e-003	0.0000	28.7198	28.7198	9.0000e-005	4.2500e-003	29.9889
Worker	0.0264	0.0153	0.1999	5.6000e-004	0.0701	3.5000e-004	0.0704	0.0186	3.2000e-004	0.0190	0.0000	51.5816	51.5816	1.5500e-003	1.4700e-003	52.0582
<b>Total</b>	<b>0.0282</b>	<b>0.0971</b>	<b>0.2191</b>	<b>8.6000e-004</b>	<b>0.0792</b>	<b>7.8000e-004</b>	<b>0.0800</b>	<b>0.0213</b>	<b>7.3000e-004</b>	<b>0.0220</b>	<b>0.0000</b>	<b>80.3014</b>	<b>80.3014</b>	<b>1.6400e-003</b>	<b>5.7200e-003</b>	<b>82.0470</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2026**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8100e-003	0.0818	0.0191	3.0000e-004	9.1300e-003	4.3000e-004	9.5500e-003	2.6400e-003	4.1000e-004	3.0500e-003	0.0000	28.7198	28.7198	9.0000e-005	4.2500e-003	29.9889
Worker	0.0264	0.0153	0.1999	5.6000e-004	0.0701	3.5000e-004	0.0704	0.0186	3.2000e-004	0.0190	0.0000	51.5816	51.5816	1.5500e-003	1.4700e-003	52.0582
<b>Total</b>	<b>0.0282</b>	<b>0.0971</b>	<b>0.2191</b>	<b>8.6000e-004</b>	<b>0.0792</b>	<b>7.8000e-004</b>	<b>0.0800</b>	<b>0.0213</b>	<b>7.3000e-004</b>	<b>0.0220</b>	<b>0.0000</b>	<b>80.3014</b>	<b>80.3014</b>	<b>1.6400e-003</b>	<b>5.7200e-003</b>	<b>82.0470</b>

**3.6 Paving - 2026**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.2000e-004	2.8600e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7390	0.7390	2.0000e-005	2.0000e-005	0.7458
<b>Total</b>	<b>3.8000e-004</b>	<b>2.2000e-004</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7390</b>	<b>0.7390</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7458</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>



CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.2000e-004	2.8600e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7390	0.7390	2.0000e-005	2.0000e-005	0.7458
<b>Total</b>	<b>3.8000e-004</b>	<b>2.2000e-004</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7390</b>	<b>0.7390</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7458</b>

**3.7 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0937</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.6000e-004	3.4400e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8867	0.8867	3.0000e-005	3.0000e-005	0.8949
<b>Total</b>	<b>4.5000e-004</b>	<b>2.6000e-004</b>	<b>3.4400e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8867</b>	<b>0.8867</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.8949</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0937</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.6000e-004	3.4400e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8867	0.8867	3.0000e-005	3.0000e-005	0.8949
<b>Total</b>	<b>4.5000e-004</b>	<b>2.6000e-004</b>	<b>3.4400e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8867</b>	<b>0.8867</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.8949</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000





CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 4 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>	2035		
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Energy Use - Construction run only.

Water And Wastewater - Construction run only.

Solid Waste - Construction run only.

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/14/2027	12/30/2026
tblConstructionPhase	PhaseEndDate	5/19/2027	11/12/2026
tblConstructionPhase	PhaseEndDate	1/28/2026	12/31/2025
tblConstructionPhase	PhaseEndDate	3/25/2026	2/5/2026
tblConstructionPhase	PhaseEndDate	6/16/2027	12/7/2026

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	2/11/2026	1/13/2026
tblConstructionPhase	PhaseStartDate	6/17/2027	12/8/2026
tblConstructionPhase	PhaseStartDate	3/26/2026	2/6/2026
tblConstructionPhase	PhaseStartDate	2/12/2026	1/14/2026
tblConstructionPhase	PhaseStartDate	5/20/2027	11/13/2026
tblConstructionPhase	PhaseStartDate	1/29/2026	1/1/2026
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	12/31/2025	5	0	
2	Site Preparation	Site Preparation	1/1/2026	1/13/2026	5	9	
3	Grading	Grading	1/14/2026	2/5/2026	5	17	
4	Building Construction	Building Construction	2/6/2026	11/12/2026	5	200	
5	Paving	Paving	11/13/2026	12/7/2026	5	17	
6	Architectural Coating	Architectural Coating	12/8/2026	12/30/2026	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38



CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0596	0.0272	0.4389	1.2200e-003	0.1479	7.0000e-004	0.1486	0.0392	6.4000e-004	0.0399		123.5505	123.5505	3.1600e-003	3.0100e-003	124.5262
<b>Total</b>	<b>0.0596</b>	<b>0.0272</b>	<b>0.4389</b>	<b>1.2200e-003</b>	<b>0.1479</b>	<b>7.0000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.4000e-004</b>	<b>0.0399</b>		<b>123.5505</b>	<b>123.5505</b>	<b>3.1600e-003</b>	<b>3.0100e-003</b>	<b>124.5262</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0596	0.0272	0.4389	1.2200e-003	0.1479	7.0000e-004	0.1486	0.0392	6.4000e-004	0.0399		123.5505	123.5505	3.1600e-003	3.0100e-003	124.5262
<b>Total</b>	<b>0.0596</b>	<b>0.0272</b>	<b>0.4389</b>	<b>1.2200e-003</b>	<b>0.1479</b>	<b>7.0000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.4000e-004</b>	<b>0.0399</b>		<b>123.5505</b>	<b>123.5505</b>	<b>3.1600e-003</b>	<b>3.0100e-003</b>	<b>124.5262</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0663	0.0302	0.4877	1.3600e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		137.2783	137.2783	3.5100e-003	3.3400e-003	138.3624
<b>Total</b>	<b>0.0663</b>	<b>0.0302</b>	<b>0.4877</b>	<b>1.3600e-003</b>	<b>0.1643</b>	<b>7.8000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.2000e-004</b>	<b>0.0443</b>		<b>137.2783</b>	<b>137.2783</b>	<b>3.5100e-003</b>	<b>3.3400e-003</b>	<b>138.3624</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>	<b>0.0000</b>	<b>6,008.281 4</b>	<b>6,008.281 4</b>	<b>1.9432</b>		<b>6,056.861 4</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0663	0.0302	0.4877	1.3600e-003	0.1643	7.8000e-004	0.1651	0.0436	7.2000e-004	0.0443		137.2783	137.2783	3.5100e-003	3.3400e-003	138.3624
<b>Total</b>	<b>0.0663</b>	<b>0.0302</b>	<b>0.4877</b>	<b>1.3600e-003</b>	<b>0.1643</b>	<b>7.8000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.2000e-004</b>	<b>0.0443</b>		<b>137.2783</b>	<b>137.2783</b>	<b>3.5100e-003</b>	<b>3.3400e-003</b>	<b>138.3624</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0185	0.7880	0.1877	3.0000e-003	0.0945	4.2500e-003	0.0987	0.0272	4.0600e-003	0.0312		316.4661	316.4661	9.7000e-004	0.0468	330.4399
Worker	0.2949	0.1344	2.1702	6.0400e-003	0.7311	3.4600e-003	0.7346	0.1939	3.1900e-003	0.1971		610.8886	610.8886	0.0156	0.0149	615.7126
<b>Total</b>	<b>0.3133</b>	<b>0.9224</b>	<b>2.3578</b>	<b>9.0400e-003</b>	<b>0.8256</b>	<b>7.7100e-003</b>	<b>0.8333</b>	<b>0.2211</b>	<b>7.2500e-003</b>	<b>0.2284</b>		<b>927.3546</b>	<b>927.3546</b>	<b>0.0166</b>	<b>0.0617</b>	<b>946.1525</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0185	0.7880	0.1877	3.0000e-003	0.0945	4.2500e-003	0.0987	0.0272	4.0600e-003	0.0312		316.4661	316.4661	9.7000e-004	0.0468	330.4399
Worker	0.2949	0.1344	2.1702	6.0400e-003	0.7311	3.4600e-003	0.7346	0.1939	3.1900e-003	0.1971		610.8886	610.8886	0.0156	0.0149	615.7126
<b>Total</b>	<b>0.3133</b>	<b>0.9224</b>	<b>2.3578</b>	<b>9.0400e-003</b>	<b>0.8256</b>	<b>7.7100e-003</b>	<b>0.8333</b>	<b>0.2211</b>	<b>7.2500e-003</b>	<b>0.2284</b>		<b>927.3546</b>	<b>927.3546</b>	<b>0.0166</b>	<b>0.0617</b>	<b>946.1525</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0497	0.0227	0.3658	1.0200e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		102.9588	102.9588	2.6300e-003	2.5100e-003	103.7718
<b>Total</b>	<b>0.0497</b>	<b>0.0227</b>	<b>0.3658</b>	<b>1.0200e-003</b>	<b>0.1232</b>	<b>5.8000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.4000e-004</b>	<b>0.0332</b>		<b>102.9588</b>	<b>102.9588</b>	<b>2.6300e-003</b>	<b>2.5100e-003</b>	<b>103.7718</b>



CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0497	0.0227	0.3658	1.0200e-003	0.1232	5.8000e-004	0.1238	0.0327	5.4000e-004	0.0332		102.9588	102.9588	2.6300e-003	2.5100e-003	103.7718
<b>Total</b>	<b>0.0497</b>	<b>0.0227</b>	<b>0.3658</b>	<b>1.0200e-003</b>	<b>0.1232</b>	<b>5.8000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.4000e-004</b>	<b>0.0332</b>		<b>102.9588</b>	<b>102.9588</b>	<b>2.6300e-003</b>	<b>2.5100e-003</b>	<b>103.7718</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.8508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>11.0217</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0596	0.0272	0.4389	1.2200e-003	0.1479	7.0000e-004	0.1486	0.0392	6.4000e-004	0.0399		123.5505	123.5505	3.1600e-003	3.0100e-003	124.5262
<b>Total</b>	<b>0.0596</b>	<b>0.0272</b>	<b>0.4389</b>	<b>1.2200e-003</b>	<b>0.1479</b>	<b>7.0000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.4000e-004</b>	<b>0.0399</b>		<b>123.5505</b>	<b>123.5505</b>	<b>3.1600e-003</b>	<b>3.0100e-003</b>	<b>124.5262</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2026**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.8508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>11.0217</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0596	0.0272	0.4389	1.2200e-003	0.1479	7.0000e-004	0.1486	0.0392	6.4000e-004	0.0399		123.5505	123.5505	3.1600e-003	3.0100e-003	124.5262
<b>Total</b>	<b>0.0596</b>	<b>0.0272</b>	<b>0.4389</b>	<b>1.2200e-003</b>	<b>0.1479</b>	<b>7.0000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.4000e-004</b>	<b>0.0399</b>		<b>123.5505</b>	<b>123.5505</b>	<b>3.1600e-003</b>	<b>3.0100e-003</b>	<b>124.5262</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Unmitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>



CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

CEDHSP Construction Year 4 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 5 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Energy Use - Construction run only.

Water And Wastewater - Construction run only.

Solid Waste - Construction run only.

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2028	12/30/2027
tblConstructionPhase	PhaseEndDate	5/18/2028	11/12/2027
tblConstructionPhase	PhaseEndDate	1/28/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	3/25/2027	2/5/2027
tblConstructionPhase	PhaseEndDate	6/15/2028	12/7/2027
tblConstructionPhase	PhaseEndDate	2/11/2027	1/13/2027
tblConstructionPhase	PhaseStartDate	6/16/2028	12/8/2027

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/26/2027	2/8/2027
tblConstructionPhase	PhaseStartDate	2/12/2027	1/14/2027
tblConstructionPhase	PhaseStartDate	5/19/2028	11/15/2027
tblConstructionPhase	PhaseStartDate	1/29/2027	1/1/2027
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.3021	1.7745	2.2703	4.4900e-003	0.2715	0.0720	0.3435	0.1012	0.0674	0.1686	0.0000	393.7652	393.7652	0.0816	5.6300e-003	397.4813
<b>Maximum</b>	<b>0.3021</b>	<b>1.7745</b>	<b>2.2703</b>	<b>4.4900e-003</b>	<b>0.2715</b>	<b>0.0720</b>	<b>0.3435</b>	<b>0.1012</b>	<b>0.0674</b>	<b>0.1686</b>	<b>0.0000</b>	<b>393.7652</b>	<b>393.7652</b>	<b>0.0816</b>	<b>5.6300e-003</b>	<b>397.4813</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2027	0.3021	1.7745	2.2703	4.4900e-003	0.2715	0.0720	0.3435	0.1012	0.0674	0.1686	0.0000	393.7649	393.7649	0.0816	5.6300e-003	397.4810
<b>Maximum</b>	<b>0.3021</b>	<b>1.7745</b>	<b>2.2703</b>	<b>4.4900e-003</b>	<b>0.2715</b>	<b>0.0720</b>	<b>0.3435</b>	<b>0.1012</b>	<b>0.0674</b>	<b>0.1686</b>	<b>0.0000</b>	<b>393.7649</b>	<b>393.7649</b>	<b>0.0816</b>	<b>5.6300e-003</b>	<b>397.4810</b>





CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2027	12/31/2026	5	0	
2	Site Preparation	Site Preparation	1/1/2027	1/13/2027	5	9	
3	Grading	Grading	1/14/2027	2/5/2027	5	17	

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/8/2027	11/12/2027	5	200
5	Paving	Paving	11/15/2027	12/7/2027	5	17
6	Architectural Coating	Architectural Coating	12/8/2027	12/30/2027	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.3000e-004	1.7100e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4559	0.4559	1.0000e-005	1.0000e-005	0.4600
<b>Total</b>	<b>2.3000e-004</b>	<b>1.3000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4559</b>	<b>0.4559</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4600</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.3000e-004	1.7100e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4559	0.4559	1.0000e-005	1.0000e-005	0.4600
<b>Total</b>	<b>2.3000e-004</b>	<b>1.3000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4559</b>	<b>0.4559</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4600</b>

**3.4 Grading - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.7000e-004	3.5900e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9569	0.9569	3.0000e-005	3.0000e-005	0.9655
<b>Total</b>	<b>4.8000e-004</b>	<b>2.7000e-004</b>	<b>3.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9569</b>	<b>0.9569</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9655</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	2.7000e-004	3.5900e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9569	0.9569	3.0000e-005	3.0000e-005	0.9655
<b>Total</b>	<b>4.8000e-004</b>	<b>2.7000e-004</b>	<b>3.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9569</b>	<b>0.9569</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9655</b>

**3.5 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7600e-003	0.0791	0.0189	2.9000e-004	9.1300e-003	4.1000e-004	9.5300e-003	2.6400e-003	3.9000e-004	3.0300e-003	0.0000	28.1794	28.1794	8.0000e-005	4.1500e-003	29.4197
Worker	0.0249	0.0139	0.1880	5.5000e-004	0.0701	3.3000e-004	0.0704	0.0186	3.0000e-004	0.0189	0.0000	50.0976	50.0976	1.4200e-003	1.3900e-003	50.5467
<b>Total</b>	<b>0.0266</b>	<b>0.0930</b>	<b>0.2069</b>	<b>8.4000e-004</b>	<b>0.0792</b>	<b>7.4000e-004</b>	<b>0.0799</b>	<b>0.0213</b>	<b>6.9000e-004</b>	<b>0.0220</b>	<b>0.0000</b>	<b>78.2770</b>	<b>78.2770</b>	<b>1.5000e-003</b>	<b>5.5400e-003</b>	<b>79.9664</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>



CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7600e-003	0.0791	0.0189	2.9000e-004	9.1300e-003	4.1000e-004	9.5300e-003	2.6400e-003	3.9000e-004	3.0300e-003	0.0000	28.1794	28.1794	8.0000e-005	4.1500e-003	29.4197
Worker	0.0249	0.0139	0.1880	5.5000e-004	0.0701	3.3000e-004	0.0704	0.0186	3.0000e-004	0.0189	0.0000	50.0976	50.0976	1.4200e-003	1.3900e-003	50.5467
<b>Total</b>	<b>0.0266</b>	<b>0.0930</b>	<b>0.2069</b>	<b>8.4000e-004</b>	<b>0.0792</b>	<b>7.4000e-004</b>	<b>0.0799</b>	<b>0.0213</b>	<b>6.9000e-004</b>	<b>0.0220</b>	<b>0.0000</b>	<b>78.2770</b>	<b>78.2770</b>	<b>1.5000e-003</b>	<b>5.5400e-003</b>	<b>79.9664</b>

**3.6 Paving - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.0000e-004	2.6900e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7177	0.7177	2.0000e-005	2.0000e-005	0.7241
<b>Total</b>	<b>3.6000e-004</b>	<b>2.0000e-004</b>	<b>2.6900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7177</b>	<b>0.7177</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7241</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.0000e-004	2.6900e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7177	0.7177	2.0000e-005	2.0000e-005	0.7241
<b>Total</b>	<b>3.6000e-004</b>	<b>2.0000e-004</b>	<b>2.6900e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.7177</b>	<b>0.7177</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7241</b>

**3.7 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0937</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.4000e-004	3.2300e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8612	0.8612	2.0000e-005	2.0000e-005	0.8690
<b>Total</b>	<b>4.3000e-004</b>	<b>2.4000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8612</b>	<b>0.8612</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8690</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0937</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.4000e-004	3.2300e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8612	0.8612	2.0000e-005	2.0000e-005	0.8690
<b>Total</b>	<b>4.3000e-004</b>	<b>2.4000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8612</b>	<b>0.8612</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8690</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000







CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 5 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Energy Use - Construction run only.

Water And Wastewater - Construction run only.

Solid Waste - Construction run only.

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	99495	0
tblAreaCoating	Area_Residential_Interior	298485	0
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2028	12/30/2027
tblConstructionPhase	PhaseEndDate	5/18/2028	11/12/2027
tblConstructionPhase	PhaseEndDate	1/28/2027	12/31/2026
tblConstructionPhase	PhaseEndDate	3/25/2027	2/5/2027
tblConstructionPhase	PhaseEndDate	6/15/2028	12/7/2027
tblConstructionPhase	PhaseEndDate	2/11/2027	1/13/2027
tblConstructionPhase	PhaseStartDate	6/16/2028	12/8/2027

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/26/2027	2/8/2027
tblConstructionPhase	PhaseStartDate	2/12/2027	1/14/2027
tblConstructionPhase	PhaseStartDate	5/19/2028	11/15/2027
tblConstructionPhase	PhaseStartDate	1/29/2027	1/1/2027
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	26.60	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberNoncatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	11.0778	27.9704	26.7892	0.0634	19.9816	1.1316	21.0691	10.1608	1.0411	11.1612	0.0000	6,141.6007	6,141.6007	1.9464	0.0598	6,191.2023
<b>Maximum</b>	<b>11.0778</b>	<b>27.9704</b>	<b>26.7892</b>	<b>0.0634</b>	<b>19.9816</b>	<b>1.1316</b>	<b>21.0691</b>	<b>10.1608</b>	<b>1.0411</b>	<b>11.1612</b>	<b>0.0000</b>	<b>6,141.6007</b>	<b>6,141.6007</b>	<b>1.9464</b>	<b>0.0598</b>	<b>6,191.2023</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2027	11.0778	27.9704	26.7892	0.0634	19.9816	1.1316	21.0691	10.1608	1.0411	11.1612	0.0000	6,141.6007	6,141.6007	1.9464	0.0598	6,191.2023
<b>Maximum</b>	<b>11.0778</b>	<b>27.9704</b>	<b>26.7892</b>	<b>0.0634</b>	<b>19.9816</b>	<b>1.1316</b>	<b>21.0691</b>	<b>10.1608</b>	<b>1.0411</b>	<b>11.1612</b>	<b>0.0000</b>	<b>6,141.6007</b>	<b>6,141.6007</b>	<b>1.9464</b>	<b>0.0598</b>	<b>6,191.2023</b>





CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2027	12/31/2026	5	0	
2	Site Preparation	Site Preparation	1/1/2027	1/13/2027	5	9	
3	Grading	Grading	1/14/2027	2/5/2027	5	17	
4	Building Construction	Building Construction	2/8/2027	11/12/2027	5	200	
5	Paving	Paving	11/15/2027	12/7/2027	5	17	
6	Architectural Coating	Architectural Coating	12/8/2027	12/30/2027	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 298,485; Residential Outdoor: 99,495; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	14.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0247	0.4123	1.1900e-003	0.1479	6.6000e-004	0.1485	0.0392	6.1000e-004	0.0398		119.9873	119.9873	2.8800e-003	2.8400e-003	120.9068
<b>Total</b>	<b>0.0562</b>	<b>0.0247</b>	<b>0.4123</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>6.6000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>6.1000e-004</b>	<b>0.0398</b>		<b>119.9873</b>	<b>119.9873</b>	<b>2.8800e-003</b>	<b>2.8400e-003</b>	<b>120.9068</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0247	0.4123	1.1900e-003	0.1479	6.6000e-004	0.1485	0.0392	6.1000e-004	0.0398		119.9873	119.9873	2.8800e-003	2.8400e-003	120.9068
<b>Total</b>	<b>0.0562</b>	<b>0.0247</b>	<b>0.4123</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>6.6000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>6.1000e-004</b>	<b>0.0398</b>		<b>119.9873</b>	<b>119.9873</b>	<b>2.8800e-003</b>	<b>2.8400e-003</b>	<b>120.9068</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0624	0.0275	0.4581	1.3200e-003	0.1643	7.3000e-004	0.1650	0.0436	6.7000e-004	0.0443		133.3192	133.3192	3.2000e-003	3.1600e-003	134.3409
<b>Total</b>	<b>0.0624</b>	<b>0.0275</b>	<b>0.4581</b>	<b>1.3200e-003</b>	<b>0.1643</b>	<b>7.3000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.7000e-004</b>	<b>0.0443</b>		<b>133.3192</b>	<b>133.3192</b>	<b>3.2000e-003</b>	<b>3.1600e-003</b>	<b>134.3409</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0624	0.0275	0.4581	1.3200e-003	0.1643	7.3000e-004	0.1650	0.0436	6.7000e-004	0.0443		133.3192	133.3192	3.2000e-003	3.1600e-003	134.3409
<b>Total</b>	<b>0.0624</b>	<b>0.0275</b>	<b>0.4581</b>	<b>1.3200e-003</b>	<b>0.1643</b>	<b>7.3000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.7000e-004</b>	<b>0.0443</b>		<b>133.3192</b>	<b>133.3192</b>	<b>3.2000e-003</b>	<b>3.1600e-003</b>	<b>134.3409</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.7621	0.1855	2.9400e-003	0.0945	4.0600e-003	0.0986	0.0272	3.8900e-003	0.0311		310.4992	310.4992	9.4000e-004	0.0458	324.1556
Worker	0.2777	0.1223	2.0387	5.8700e-003	0.7311	3.2500e-003	0.7344	0.1939	2.9900e-003	0.1969		593.2706	593.2706	0.0143	0.0141	597.8170
<b>Total</b>	<b>0.2956</b>	<b>0.8844</b>	<b>2.2242</b>	<b>8.8100e-003</b>	<b>0.8256</b>	<b>7.3100e-003</b>	<b>0.8329</b>	<b>0.2211</b>	<b>6.8800e-003</b>	<b>0.2280</b>		<b>903.7698</b>	<b>903.7698</b>	<b>0.0152</b>	<b>0.0598</b>	<b>921.9726</b>



CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0180	0.7621	0.1855	2.9400e-003	0.0945	4.0600e-003	0.0986	0.0272	3.8900e-003	0.0311		310.4992	310.4992	9.4000e-004	0.0458	324.1556
Worker	0.2777	0.1223	2.0387	5.8700e-003	0.7311	3.2500e-003	0.7344	0.1939	2.9900e-003	0.1969		593.2706	593.2706	0.0143	0.0141	597.8170
<b>Total</b>	<b>0.2956</b>	<b>0.8844</b>	<b>2.2242</b>	<b>8.8100e-003</b>	<b>0.8256</b>	<b>7.3100e-003</b>	<b>0.8329</b>	<b>0.2211</b>	<b>6.8800e-003</b>	<b>0.2280</b>		<b>903.7698</b>	<b>903.7698</b>	<b>0.0152</b>	<b>0.0598</b>	<b>921.9726</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0468	0.0206	0.3436	9.9000e-004	0.1232	5.5000e-004	0.1238	0.0327	5.0000e-004	0.0332		99.9894	99.9894	2.4000e-003	2.3700e-003	100.7557
<b>Total</b>	<b>0.0468</b>	<b>0.0206</b>	<b>0.3436</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>5.5000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.0000e-004</b>	<b>0.0332</b>		<b>99.9894</b>	<b>99.9894</b>	<b>2.4000e-003</b>	<b>2.3700e-003</b>	<b>100.7557</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0468	0.0206	0.3436	9.9000e-004	0.1232	5.5000e-004	0.1238	0.0327	5.0000e-004	0.0332		99.9894	99.9894	2.4000e-003	2.3700e-003	100.7557
<b>Total</b>	<b>0.0468</b>	<b>0.0206</b>	<b>0.3436</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>5.5000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.0000e-004</b>	<b>0.0332</b>		<b>99.9894</b>	<b>99.9894</b>	<b>2.4000e-003</b>	<b>2.3700e-003</b>	<b>100.7557</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.8508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>11.0217</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0247	0.4123	1.1900e-003	0.1479	6.6000e-004	0.1485	0.0392	6.1000e-004	0.0398		119.9873	119.9873	2.8800e-003	2.8400e-003	120.9068
<b>Total</b>	<b>0.0562</b>	<b>0.0247</b>	<b>0.4123</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>6.6000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>6.1000e-004</b>	<b>0.0398</b>		<b>119.9873</b>	<b>119.9873</b>	<b>2.8800e-003</b>	<b>2.8400e-003</b>	<b>120.9068</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2027**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.8508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>11.0217</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0562	0.0247	0.4123	1.1900e-003	0.1479	6.6000e-004	0.1485	0.0392	6.1000e-004	0.0398		119.9873	119.9873	2.8800e-003	2.8400e-003	120.9068
<b>Total</b>	<b>0.0562</b>	<b>0.0247</b>	<b>0.4123</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>6.6000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>6.1000e-004</b>	<b>0.0398</b>		<b>119.9873</b>	<b>119.9873</b>	<b>2.8800e-003</b>	<b>2.8400e-003</b>	<b>120.9068</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277
Unmitigated	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609	0.0000	19.7575	19.7575	0.0188	0.0000	20.2277

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3269	0.1262	10.9341	5.8000e-004		0.0609	0.0609		0.0609	0.0609		19.7575	19.7575	0.0188		20.2277
<b>Total</b>	<b>0.3269</b>	<b>0.1262</b>	<b>10.9341</b>	<b>5.8000e-004</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>19.7575</b>	<b>19.7575</b>	<b>0.0188</b>	<b>0.0000</b>	<b>20.2277</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 5 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 6 Mitigated  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - construction run only

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	48195	0
tblAreaCoating	Area_Residential_Interior	144585	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2029	12/29/2028
tblConstructionPhase	PhaseEndDate	5/18/2029	11/13/2028
tblConstructionPhase	PhaseEndDate	1/28/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	3/24/2028	2/7/2028
tblConstructionPhase	PhaseEndDate	6/15/2029	12/6/2028
tblConstructionPhase	PhaseEndDate	2/11/2028	1/13/2028
tblConstructionPhase	PhaseStartDate	6/16/2029	12/7/2028
tblConstructionPhase	PhaseStartDate	3/25/2028	2/8/2028

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	2/12/2028	1/14/2028
tblConstructionPhase	PhaseStartDate	5/19/2029	11/14/2028
tblConstructionPhase	PhaseStartDate	1/29/2028	1/3/2028
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/13/2028	5	9	
3	Grading	Grading	1/14/2028	2/7/2028	5	17	

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/8/2028	11/13/2028	5	200
5	Paving	Paving	11/14/2028	12/6/2028	5	17
6	Architectural Coating	Architectural Coating	12/7/2028	12/29/2028	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37





CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.3 Site Preparation - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.6200e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4437	0.4437	1.0000e-005	1.0000e-005	0.4476
<b>Total</b>	<b>2.1000e-004</b>	<b>1.2000e-004</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4437</b>	<b>0.4437</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4476</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	1.7000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>2.8000e-004</b>	<b>0.0895</b>	<b>0.0456</b>	<b>2.8000e-004</b>	<b>0.0458</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.6200e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4437	0.4437	1.0000e-005	1.0000e-005	0.4476
<b>Total</b>	<b>2.1000e-004</b>	<b>1.2000e-004</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4437</b>	<b>0.4437</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4476</b>

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.4000e-004	3.4000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9312	0.9312	2.0000e-005	3.0000e-005	0.9393
<b>Total</b>	<b>4.5000e-004</b>	<b>2.4000e-004</b>	<b>3.4000e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9312</b>	<b>0.9312</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9393</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0281	0.2805	5.3000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0281</b>	<b>0.2805</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>8.6000e-004</b>	<b>0.0998</b>	<b>0.0333</b>	<b>8.6000e-004</b>	<b>0.0342</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.4000e-004	3.4000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9312	0.9312	2.0000e-005	3.0000e-005	0.9393
<b>Total</b>	<b>4.5000e-004</b>	<b>2.4000e-004</b>	<b>3.4000e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9312</b>	<b>0.9312</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9393</b>

**3.5 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0329	8.0400e-003	1.2000e-004	3.9100e-003	1.7000e-004	4.0800e-003	1.1300e-003	1.6000e-004	1.2900e-003	0.0000	11.8606	11.8606	4.0000e-005	1.7400e-003	12.3805
Worker	9.1900e-003	4.9900e-003	0.0699	2.1000e-004	0.0276	1.2000e-004	0.0277	7.3300e-003	1.1000e-004	7.4400e-003	0.0000	19.1714	19.1714	5.1000e-004	5.2000e-004	19.3388
<b>Total</b>	<b>9.9300e-003</b>	<b>0.0379</b>	<b>0.0780</b>	<b>3.3000e-004</b>	<b>0.0315</b>	<b>2.9000e-004</b>	<b>0.0318</b>	<b>8.4600e-003</b>	<b>2.7000e-004</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>31.0320</b>	<b>31.0320</b>	<b>5.5000e-004</b>	<b>2.2600e-003</b>	<b>31.7193</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0328	0.2235	1.7460	2.7000e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.0328</b>	<b>0.2235</b>	<b>1.7460</b>	<b>2.7000e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0329	8.0400e-003	1.2000e-004	3.9100e-003	1.7000e-004	4.0800e-003	1.1300e-003	1.6000e-004	1.2900e-003	0.0000	11.8606	11.8606	4.0000e-005	1.7400e-003	12.3805
Worker	9.1900e-003	4.9900e-003	0.0699	2.1000e-004	0.0276	1.2000e-004	0.0277	7.3300e-003	1.1000e-004	7.4400e-003	0.0000	19.1714	19.1714	5.1000e-004	5.2000e-004	19.3388
<b>Total</b>	<b>9.9300e-003</b>	<b>0.0379</b>	<b>0.0780</b>	<b>3.3000e-004</b>	<b>0.0315</b>	<b>2.9000e-004</b>	<b>0.0318</b>	<b>8.4600e-003</b>	<b>2.7000e-004</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>31.0320</b>	<b>31.0320</b>	<b>5.5000e-004</b>	<b>2.2600e-003</b>	<b>31.7193</b>

**3.6 Paving - 2028**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.5500e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6984	0.6984	2.0000e-005	2.0000e-005	0.7045
<b>Total</b>	<b>3.3000e-004</b>	<b>1.8000e-004</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6984</b>	<b>0.6984</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7045</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3800e-003	0.0103	0.1470	1.9000e-004		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.3800e-003</b>	<b>0.0103</b>	<b>0.1470</b>	<b>1.9000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.5500e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6984	0.6984	2.0000e-005	2.0000e-005	0.7045
<b>Total</b>	<b>3.3000e-004</b>	<b>1.8000e-004</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6984</b>	<b>0.6984</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7045</b>

**3.7 Architectural Coating - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0447					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0461</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.1900e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3259	0.3259	1.0000e-005	1.0000e-005	0.3288
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3259</b>	<b>0.3259</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3288</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0447					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	1.0900e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0449</b>	<b>1.0900e-003</b>	<b>0.0156</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.1900e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3259	0.3259	1.0000e-005	1.0000e-005	0.3288
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3259</b>	<b>0.3259</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3288</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**





CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 6 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2029	12/29/2028
tblConstructionPhase	PhaseEndDate	5/18/2029	11/13/2028
tblConstructionPhase	PhaseEndDate	1/28/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	3/24/2028	2/7/2028
tblConstructionPhase	PhaseEndDate	6/15/2029	12/6/2028
tblConstructionPhase	PhaseEndDate	2/11/2028	1/13/2028
tblConstructionPhase	PhaseStartDate	6/16/2029	12/7/2028
tblConstructionPhase	PhaseStartDate	3/25/2028	2/8/2028
tblConstructionPhase	PhaseStartDate	2/12/2028	1/14/2028
tblConstructionPhase	PhaseStartDate	5/19/2029	11/14/2028
tblConstructionPhase	PhaseStartDate	1/29/2028	1/3/2028
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.2375	1.7192	2.1389	3.9700e-003	0.2231	0.0716	0.2946	0.0882	0.0670	0.1552	0.0000	345.9277	345.9277	0.0806	2.3300e-003	348.6358
<b>Maximum</b>	<b>0.2375</b>	<b>1.7192</b>	<b>2.1389</b>	<b>3.9700e-003</b>	<b>0.2231</b>	<b>0.0716</b>	<b>0.2946</b>	<b>0.0882</b>	<b>0.0670</b>	<b>0.1552</b>	<b>0.0000</b>	<b>345.9277</b>	<b>345.9277</b>	<b>0.0806</b>	<b>2.3300e-003</b>	<b>348.6358</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2028	0.2375	1.7192	2.1389	3.9700e-003	0.2231	0.0716	0.2946	0.0882	0.0670	0.1552	0.0000	345.9273	345.9273	0.0806	2.3300e-003	348.6354
<b>Maximum</b>	<b>0.2375</b>	<b>1.7192</b>	<b>2.1389</b>	<b>3.9700e-003</b>	<b>0.2231</b>	<b>0.0716</b>	<b>0.2946</b>	<b>0.0882</b>	<b>0.0670</b>	<b>0.1552</b>	<b>0.0000</b>	<b>345.9273</b>	<b>345.9273</b>	<b>0.0806</b>	<b>2.3300e-003</b>	<b>348.6354</b>



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/13/2028	5	9	
3	Grading	Grading	1/14/2028	2/7/2028	5	17	

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/8/2028	11/13/2028	5	200
5	Paving	Paving	11/14/2028	12/6/2028	5	17
6	Architectural Coating	Architectural Coating	12/7/2028	12/29/2028	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37





CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2028**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.3 Site Preparation - 2028**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.6200e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4437	0.4437	1.0000e-005	1.0000e-005	0.4476
<b>Total</b>	<b>2.1000e-004</b>	<b>1.2000e-004</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4437</b>	<b>0.4437</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4476</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0893</b>	<b>4.8900e-003</b>	<b>0.0941</b>	<b>0.0456</b>	<b>4.5000e-003</b>	<b>0.0501</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.6200e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4437	0.4437	1.0000e-005	1.0000e-005	0.4476
<b>Total</b>	<b>2.1000e-004</b>	<b>1.2000e-004</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4437</b>	<b>0.4437</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4476</b>

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.4000e-004	3.4000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9312	0.9312	2.0000e-005	3.0000e-005	0.9393
<b>Total</b>	<b>4.5000e-004</b>	<b>2.4000e-004</b>	<b>3.4000e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9312</b>	<b>0.9312</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9393</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.0989</b>	<b>9.6100e-003</b>	<b>0.1085</b>	<b>0.0333</b>	<b>8.8400e-003</b>	<b>0.0421</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.4000e-004	3.4000e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	1.0000e-005	3.6000e-004	0.0000	0.9312	0.9312	2.0000e-005	3.0000e-005	0.9393
<b>Total</b>	<b>4.5000e-004</b>	<b>2.4000e-004</b>	<b>3.4000e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9312</b>	<b>0.9312</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9393</b>

**3.5 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0329	8.0400e-003	1.2000e-004	3.9100e-003	1.7000e-004	4.0800e-003	1.1300e-003	1.6000e-004	1.2900e-003	0.0000	11.8606	11.8606	4.0000e-005	1.7400e-003	12.3805
Worker	9.1900e-003	4.9900e-003	0.0699	2.1000e-004	0.0276	1.2000e-004	0.0277	7.3300e-003	1.1000e-004	7.4400e-003	0.0000	19.1714	19.1714	5.1000e-004	5.2000e-004	19.3388
<b>Total</b>	<b>9.9300e-003</b>	<b>0.0379</b>	<b>0.0780</b>	<b>3.3000e-004</b>	<b>0.0315</b>	<b>2.9000e-004</b>	<b>0.0318</b>	<b>8.4600e-003</b>	<b>2.7000e-004</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>31.0320</b>	<b>31.0320</b>	<b>5.5000e-004</b>	<b>2.2600e-003</b>	<b>31.7193</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4000e-004	0.0329	8.0400e-003	1.2000e-004	3.9100e-003	1.7000e-004	4.0800e-003	1.1300e-003	1.6000e-004	1.2900e-003	0.0000	11.8606	11.8606	4.0000e-005	1.7400e-003	12.3805
Worker	9.1900e-003	4.9900e-003	0.0699	2.1000e-004	0.0276	1.2000e-004	0.0277	7.3300e-003	1.1000e-004	7.4400e-003	0.0000	19.1714	19.1714	5.1000e-004	5.2000e-004	19.3388
<b>Total</b>	<b>9.9300e-003</b>	<b>0.0379</b>	<b>0.0780</b>	<b>3.3000e-004</b>	<b>0.0315</b>	<b>2.9000e-004</b>	<b>0.0318</b>	<b>8.4600e-003</b>	<b>2.7000e-004</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>31.0320</b>	<b>31.0320</b>	<b>5.5000e-004</b>	<b>2.2600e-003</b>	<b>31.7193</b>

**3.6 Paving - 2028**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.5500e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6984	0.6984	2.0000e-005	2.0000e-005	0.7045
<b>Total</b>	<b>3.3000e-004</b>	<b>1.8000e-004</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6984</b>	<b>0.6984</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7045</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.7800e-003</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	1.8000e-004	2.5500e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6984	0.6984	2.0000e-005	2.0000e-005	0.7045
<b>Total</b>	<b>3.3000e-004</b>	<b>1.8000e-004</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6984</b>	<b>0.6984</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7045</b>

**3.7 Architectural Coating - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0447					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0461</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.1900e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3259	0.3259	1.0000e-005	1.0000e-005	0.3288
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3259</b>	<b>0.3259</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3288</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0447					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0461</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.1900e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3259	0.3259	1.0000e-005	1.0000e-005	0.3288
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3259</b>	<b>0.3259</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3288</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Natural Gas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Natural Gas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 6 Mitigated  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - construction run only

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	48195	0
tblAreaCoating	Area_Residential_Interior	144585	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2029	12/29/2028
tblConstructionPhase	PhaseEndDate	5/18/2029	11/13/2028
tblConstructionPhase	PhaseEndDate	1/28/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	3/24/2028	2/7/2028
tblConstructionPhase	PhaseEndDate	6/15/2029	12/6/2028
tblConstructionPhase	PhaseEndDate	2/11/2028	1/13/2028
tblConstructionPhase	PhaseStartDate	6/16/2029	12/7/2028
tblConstructionPhase	PhaseStartDate	3/25/2028	2/8/2028



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	2/12/2028	1/14/2028
tblConstructionPhase	PhaseStartDate	5/19/2029	11/14/2028
tblConstructionPhase	PhaseStartDate	1/29/2028	1/3/2028
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/13/2028	5	9	
3	Grading	Grading	1/14/2028	2/7/2028	5	17	
4	Building Construction	Building Construction	2/8/2028	11/13/2028	5	200	
5	Paving	Paving	11/14/2028	12/6/2028	5	17	
6	Architectural Coating	Architectural Coating	12/7/2028	12/29/2028	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment







CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0528	0.0226	0.3898	1.1600e-003	0.1479	6.1000e-004	0.1485	0.0392	5.7000e-004	0.0398		116.7566	116.7566	2.6400e-003	2.7000e-003	117.6280
<b>Total</b>	<b>0.0528</b>	<b>0.0226</b>	<b>0.3898</b>	<b>1.1600e-003</b>	<b>0.1479</b>	<b>6.1000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>5.7000e-004</b>	<b>0.0398</b>		<b>116.7566</b>	<b>116.7566</b>	<b>2.6400e-003</b>	<b>2.7000e-003</b>	<b>117.6280</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>19.8338</b>	<b>0.0621</b>	<b>19.8958</b>	<b>10.1215</b>	<b>0.0621</b>	<b>10.1836</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0528	0.0226	0.3898	1.1600e-003	0.1479	6.1000e-004	0.1485	0.0392	5.7000e-004	0.0398		116.7566	116.7566	2.6400e-003	2.7000e-003	117.6280
<b>Total</b>	<b>0.0528</b>	<b>0.0226</b>	<b>0.3898</b>	<b>1.1600e-003</b>	<b>0.1479</b>	<b>6.1000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>5.7000e-004</b>	<b>0.0398</b>		<b>116.7566</b>	<b>116.7566</b>	<b>2.6400e-003</b>	<b>2.7000e-003</b>	<b>117.6280</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0251	0.4331	1.2800e-003	0.1643	6.8000e-004	0.1650	0.0436	6.3000e-004	0.0442		129.7296	129.7296	2.9400e-003	3.0000e-003	130.6978
<b>Total</b>	<b>0.0586</b>	<b>0.0251</b>	<b>0.4331</b>	<b>1.2800e-003</b>	<b>0.1643</b>	<b>6.8000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.3000e-004</b>	<b>0.0442</b>		<b>129.7296</b>	<b>129.7296</b>	<b>2.9400e-003</b>	<b>3.0000e-003</b>	<b>130.6978</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>11.6365</b>	<b>0.1015</b>	<b>11.7380</b>	<b>3.9165</b>	<b>0.1015</b>	<b>4.0180</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0251	0.4331	1.2800e-003	0.1643	6.8000e-004	0.1650	0.0436	6.3000e-004	0.0442		129.7296	129.7296	2.9400e-003	3.0000e-003	130.6978
<b>Total</b>	<b>0.0586</b>	<b>0.0251</b>	<b>0.4331</b>	<b>1.2800e-003</b>	<b>0.1643</b>	<b>6.8000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.3000e-004</b>	<b>0.0442</b>		<b>129.7296</b>	<b>129.7296</b>	<b>2.9400e-003</b>	<b>3.0000e-003</b>	<b>130.6978</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5200e-003	0.3168	0.0788	1.2400e-003	0.0405	1.6700e-003	0.0422	0.0117	1.6000e-003	0.0133		130.6832	130.6832	3.9000e-004	0.0192	136.4081
Worker	0.1026	0.0440	0.7579	2.2500e-003	0.2875	1.1900e-003	0.2887	0.0763	1.1000e-003	0.0774		227.0267	227.0267	5.1400e-003	5.2500e-003	228.7211
<b>Total</b>	<b>0.1101</b>	<b>0.3608</b>	<b>0.8367</b>	<b>3.4900e-003</b>	<b>0.3280</b>	<b>2.8600e-003</b>	<b>0.3309</b>	<b>0.0879</b>	<b>2.7000e-003</b>	<b>0.0906</b>		<b>357.7099</b>	<b>357.7099</b>	<b>5.5300e-003</b>	<b>0.0244</b>	<b>365.1291</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5200e-003	0.3168	0.0788	1.2400e-003	0.0405	1.6700e-003	0.0422	0.0117	1.6000e-003	0.0133		130.6832	130.6832	3.9000e-004	0.0192	136.4081
Worker	0.1026	0.0440	0.7579	2.2500e-003	0.2875	1.1900e-003	0.2887	0.0763	1.1000e-003	0.0774		227.0267	227.0267	5.1400e-003	5.2500e-003	228.7211
<b>Total</b>	<b>0.1101</b>	<b>0.3608</b>	<b>0.8367</b>	<b>3.4900e-003</b>	<b>0.3280</b>	<b>2.8600e-003</b>	<b>0.3309</b>	<b>0.0879</b>	<b>2.7000e-003</b>	<b>0.0906</b>		<b>357.7099</b>	<b>357.7099</b>	<b>5.5300e-003</b>	<b>0.0244</b>	<b>365.1291</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0440	0.0188	0.3248	9.6000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		97.2972	97.2972	2.2000e-003	2.2500e-003	98.0233
<b>Total</b>	<b>0.0440</b>	<b>0.0188</b>	<b>0.3248</b>	<b>9.6000e-004</b>	<b>0.1232</b>	<b>5.1000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.7000e-004</b>	<b>0.0332</b>		<b>97.2972</b>	<b>97.2972</b>	<b>2.2000e-003</b>	<b>2.2500e-003</b>	<b>98.0233</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0440	0.0188	0.3248	9.6000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		97.2972	97.2972	2.2000e-003	2.2500e-003	98.0233
<b>Total</b>	<b>0.0440</b>	<b>0.0188</b>	<b>0.3248</b>	<b>9.6000e-004</b>	<b>0.1232</b>	<b>5.1000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.7000e-004</b>	<b>0.0332</b>		<b>97.2972</b>	<b>97.2972</b>	<b>2.2000e-003</b>	<b>2.2500e-003</b>	<b>98.0233</b>



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.2561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>5.4270</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0205	8.7900e-003	0.1516	4.5000e-004	0.0575	2.4000e-004	0.0577	0.0153	2.2000e-004	0.0155		45.4053	45.4053	1.0300e-003	1.0500e-003	45.7442
<b>Total</b>	<b>0.0205</b>	<b>8.7900e-003</b>	<b>0.1516</b>	<b>4.5000e-004</b>	<b>0.0575</b>	<b>2.4000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>2.2000e-004</b>	<b>0.0155</b>		<b>45.4053</b>	<b>45.4053</b>	<b>1.0300e-003</b>	<b>1.0500e-003</b>	<b>45.7442</b>

CEHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.2561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>5.2858</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0205	8.7900e-003	0.1516	4.5000e-004	0.0575	2.4000e-004	0.0577	0.0153	2.2000e-004	0.0155		45.4053	45.4053	1.0300e-003	1.0500e-003	45.7442
<b>Total</b>	<b>0.0205</b>	<b>8.7900e-003</b>	<b>0.1516</b>	<b>4.5000e-004</b>	<b>0.0575</b>	<b>2.4000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>2.2000e-004</b>	<b>0.0155</b>		<b>45.4053</b>	<b>45.4053</b>	<b>1.0300e-003</b>	<b>1.0500e-003</b>	<b>45.7442</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Unmitigated	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.0600e-003		8.6690
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.0600e-003		8.6690
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 6 Mitigated  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2029	12/29/2028
tblConstructionPhase	PhaseEndDate	5/18/2029	11/13/2028
tblConstructionPhase	PhaseEndDate	1/28/2028	1/2/2028
tblConstructionPhase	PhaseEndDate	3/24/2028	2/7/2028
tblConstructionPhase	PhaseEndDate	6/15/2029	12/6/2028
tblConstructionPhase	PhaseEndDate	2/11/2028	1/13/2028
tblConstructionPhase	PhaseStartDate	6/16/2029	12/7/2028
tblConstructionPhase	PhaseStartDate	3/25/2028	2/8/2028
tblConstructionPhase	PhaseStartDate	2/12/2028	1/14/2028
tblConstructionPhase	PhaseStartDate	5/19/2029	11/14/2028
tblConstructionPhase	PhaseStartDate	1/29/2028	1/3/2028
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	5.4475	27.9680	26.7642	0.0633	19.9816	1.1316	21.0690	10.1608	1.0411	11.1612	0.0000	6,138.0110	6,138.0110	1.9461	0.0244	6,187.5592
Maximum	5.4475	27.9680	26.7642	0.0633	19.9816	1.1316	21.0690	10.1608	1.0411	11.1612	0.0000	6,138.0110	6,138.0110	1.9461	0.0244	6,187.5592

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2028	5.4475	27.9680	26.7642	0.0633	19.9816	1.1316	21.0690	10.1608	1.0411	11.1612	0.0000	6,138.0110	6,138.0110	1.9461	0.0244	6,187.5592
Maximum	5.4475	27.9680	26.7642	0.0633	19.9816	1.1316	21.0690	10.1608	1.0411	11.1612	0.0000	6,138.0110	6,138.0110	1.9461	0.0244	6,187.5592



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2028	1/2/2028	5	0	
2	Site Preparation	Site Preparation	1/3/2028	1/13/2028	5	9	
3	Grading	Grading	1/14/2028	2/7/2028	5	17	
4	Building Construction	Building Construction	2/8/2028	11/13/2028	5	200	
5	Paving	Paving	11/14/2028	12/6/2028	5	17	
6	Architectural Coating	Architectural Coating	12/7/2028	12/29/2028	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment





CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0528	0.0226	0.3898	1.1600e-003	0.1479	6.1000e-004	0.1485	0.0392	5.7000e-004	0.0398		116.7566	116.7566	2.6400e-003	2.7000e-003	117.6280
<b>Total</b>	<b>0.0528</b>	<b>0.0226</b>	<b>0.3898</b>	<b>1.1600e-003</b>	<b>0.1479</b>	<b>6.1000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>5.7000e-004</b>	<b>0.0398</b>		<b>116.7566</b>	<b>116.7566</b>	<b>2.6400e-003</b>	<b>2.7000e-003</b>	<b>117.6280</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.8338</b>	<b>1.0868</b>	<b>20.9206</b>	<b>10.1215</b>	<b>0.9999</b>	<b>11.1214</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0528	0.0226	0.3898	1.1600e-003	0.1479	6.1000e-004	0.1485	0.0392	5.7000e-004	0.0398		116.7566	116.7566	2.6400e-003	2.7000e-003	117.6280
<b>Total</b>	<b>0.0528</b>	<b>0.0226</b>	<b>0.3898</b>	<b>1.1600e-003</b>	<b>0.1479</b>	<b>6.1000e-004</b>	<b>0.1485</b>	<b>0.0392</b>	<b>5.7000e-004</b>	<b>0.0398</b>		<b>116.7566</b>	<b>116.7566</b>	<b>2.6400e-003</b>	<b>2.7000e-003</b>	<b>117.6280</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0251	0.4331	1.2800e-003	0.1643	6.8000e-004	0.1650	0.0436	6.3000e-004	0.0442		129.7296	129.7296	2.9400e-003	3.0000e-003	130.6978
<b>Total</b>	<b>0.0586</b>	<b>0.0251</b>	<b>0.4331</b>	<b>1.2800e-003</b>	<b>0.1643</b>	<b>6.8000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.3000e-004</b>	<b>0.0442</b>		<b>129.7296</b>	<b>129.7296</b>	<b>2.9400e-003</b>	<b>3.0000e-003</b>	<b>130.6978</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>11.6365</b>	<b>1.1309</b>	<b>12.7674</b>	<b>3.9165</b>	<b>1.0404</b>	<b>4.9569</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0251	0.4331	1.2800e-003	0.1643	6.8000e-004	0.1650	0.0436	6.3000e-004	0.0442		129.7296	129.7296	2.9400e-003	3.0000e-003	130.6978
<b>Total</b>	<b>0.0586</b>	<b>0.0251</b>	<b>0.4331</b>	<b>1.2800e-003</b>	<b>0.1643</b>	<b>6.8000e-004</b>	<b>0.1650</b>	<b>0.0436</b>	<b>6.3000e-004</b>	<b>0.0442</b>		<b>129.7296</b>	<b>129.7296</b>	<b>2.9400e-003</b>	<b>3.0000e-003</b>	<b>130.6978</b>



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5200e-003	0.3168	0.0788	1.2400e-003	0.0405	1.6700e-003	0.0422	0.0117	1.6000e-003	0.0133		130.6832	130.6832	3.9000e-004	0.0192	136.4081
Worker	0.1026	0.0440	0.7579	2.2500e-003	0.2875	1.1900e-003	0.2887	0.0763	1.1000e-003	0.0774		227.0267	227.0267	5.1400e-003	5.2500e-003	228.7211
<b>Total</b>	<b>0.1101</b>	<b>0.3608</b>	<b>0.8367</b>	<b>3.4900e-003</b>	<b>0.3280</b>	<b>2.8600e-003</b>	<b>0.3309</b>	<b>0.0879</b>	<b>2.7000e-003</b>	<b>0.0906</b>		<b>357.7099</b>	<b>357.7099</b>	<b>5.5300e-003</b>	<b>0.0244</b>	<b>365.1291</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2028**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5200e-003	0.3168	0.0788	1.2400e-003	0.0405	1.6700e-003	0.0422	0.0117	1.6000e-003	0.0133		130.6832	130.6832	3.9000e-004	0.0192	136.4081
Worker	0.1026	0.0440	0.7579	2.2500e-003	0.2875	1.1900e-003	0.2887	0.0763	1.1000e-003	0.0774		227.0267	227.0267	5.1400e-003	5.2500e-003	228.7211
<b>Total</b>	<b>0.1101</b>	<b>0.3608</b>	<b>0.8367</b>	<b>3.4900e-003</b>	<b>0.3280</b>	<b>2.8600e-003</b>	<b>0.3309</b>	<b>0.0879</b>	<b>2.7000e-003</b>	<b>0.0906</b>		<b>357.7099</b>	<b>357.7099</b>	<b>5.5300e-003</b>	<b>0.0244</b>	<b>365.1291</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0440	0.0188	0.3248	9.6000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		97.2972	97.2972	2.2000e-003	2.2500e-003	98.0233
<b>Total</b>	<b>0.0440</b>	<b>0.0188</b>	<b>0.3248</b>	<b>9.6000e-004</b>	<b>0.1232</b>	<b>5.1000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.7000e-004</b>	<b>0.0332</b>		<b>97.2972</b>	<b>97.2972</b>	<b>2.2000e-003</b>	<b>2.2500e-003</b>	<b>98.0233</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0440	0.0188	0.3248	9.6000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		97.2972	97.2972	2.2000e-003	2.2500e-003	98.0233
<b>Total</b>	<b>0.0440</b>	<b>0.0188</b>	<b>0.3248</b>	<b>9.6000e-004</b>	<b>0.1232</b>	<b>5.1000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.7000e-004</b>	<b>0.0332</b>		<b>97.2972</b>	<b>97.2972</b>	<b>2.2000e-003</b>	<b>2.2500e-003</b>	<b>98.0233</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.2561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>5.4270</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0205	8.7900e-003	0.1516	4.5000e-004	0.0575	2.4000e-004	0.0577	0.0153	2.2000e-004	0.0155		45.4053	45.4053	1.0300e-003	1.0500e-003	45.7442
<b>Total</b>	<b>0.0205</b>	<b>8.7900e-003</b>	<b>0.1516</b>	<b>4.5000e-004</b>	<b>0.0575</b>	<b>2.4000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>2.2000e-004</b>	<b>0.0155</b>		<b>45.4053</b>	<b>45.4053</b>	<b>1.0300e-003</b>	<b>1.0500e-003</b>	<b>45.7442</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.2561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>5.4270</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0205	8.7900e-003	0.1516	4.5000e-004	0.0575	2.4000e-004	0.0577	0.0153	2.2000e-004	0.0155		45.4053	45.4053	1.0300e-003	1.0500e-003	45.7442
<b>Total</b>	<b>0.0205</b>	<b>8.7900e-003</b>	<b>0.1516</b>	<b>4.5000e-004</b>	<b>0.0575</b>	<b>2.4000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>2.2000e-004</b>	<b>0.0155</b>		<b>45.4053</b>	<b>45.4053</b>	<b>1.0300e-003</b>	<b>1.0500e-003</b>	<b>45.7442</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690
Unmitigated	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.0600e-003	0.0000	8.6690

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.0600e-003		8.6690
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1401	0.0541	4.6860	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.0600e-003		8.6690
<b>Total</b>	<b>0.1401</b>	<b>0.0541</b>	<b>4.6860</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4675</b>	<b>8.4675</b>	<b>8.0600e-003</b>	<b>0.0000</b>	<b>8.6690</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 6 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 7 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
City Park	8.00	Acre	8.00	348,480.00	0
Other Asphalt Surfaces	6.00	Acre	6.00	261,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Other Asphalt surfaces accounts for a portion of the 12 acres of Right Of Way and paved areas throughout project area. City Park land use includes 7 acres of "Village Park" and 1 acre of "Neighborhood Park" within the 169 acres of open space. See Excel file CEDH\_Assumptions.

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Water And Wastewater - Construction run only.

Energy Use - Construction run only.

Solid Waste - Construction run only.

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Parking	15682	0
tblAreaCoating	Area_Residential_Exterior	48195	0
tblAreaCoating	Area_Residential_Interior	144585	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	440.00	200.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	45.00	17.00
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	PhaseEndDate	4/25/2031	12/28/2029



CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	1/17/2031	11/12/2029
tblConstructionPhase	PhaseEndDate	2/9/2029	12/31/2028
tblConstructionPhase	PhaseEndDate	5/11/2029	2/5/2029
tblConstructionPhase	PhaseEndDate	3/7/2031	12/5/2029
tblConstructionPhase	PhaseEndDate	3/9/2029	1/11/2029
tblConstructionPhase	PhaseStartDate	3/8/2031	12/6/2029
tblConstructionPhase	PhaseStartDate	5/12/2029	2/6/2029
tblConstructionPhase	PhaseStartDate	3/10/2029	1/12/2029
tblConstructionPhase	PhaseStartDate	1/18/2031	11/13/2029
tblConstructionPhase	PhaseStartDate	2/10/2029	1/1/2029
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	135.00
tblGrading	AcresOfGrading	13.50	30.00

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**





CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2029	12/31/2028	5	0	
2	Site Preparation	Site Preparation	1/1/2029	1/11/2029	5	9	
3	Grading	Grading	1/12/2029	2/5/2029	5	17	

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2029	11/12/2029	5	200
5	Paving	Paving	11/13/2029	12/5/2029	5	17
6	Architectural Coating	Architectural Coating	12/6/2029	12/28/2029	5	17

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,682 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	291.00	106.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0972	0.0000	0.0972	0.0464	0.0000	0.0464	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1136	0.0806	1.7000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>0.0111</b>	<b>0.1136</b>	<b>0.0806</b>	<b>1.7000e-004</b>	<b>0.0972</b>	<b>4.8900e-003</b>	<b>0.1021</b>	<b>0.0464</b>	<b>4.5000e-003</b>	<b>0.0509</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.5400e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4326	0.4326	1.0000e-005	1.0000e-005	0.4363
<b>Total</b>	<b>2.0000e-004</b>	<b>1.1000e-004</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4326</b>	<b>0.4326</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4363</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0972	0.0000	0.0972	0.0464	0.0000	0.0464	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	1.7000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	15.0601	15.0601	4.8700e-003	0.0000	15.1819
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>1.7000e-004</b>	<b>0.0972</b>	<b>2.8000e-004</b>	<b>0.0975</b>	<b>0.0464</b>	<b>2.8000e-004</b>	<b>0.0467</b>	<b>0.0000</b>	<b>15.0601</b>	<b>15.0601</b>	<b>4.8700e-003</b>	<b>0.0000</b>	<b>15.1819</b>



CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.5400e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4326	0.4326	1.0000e-005	1.0000e-005	0.4363
<b>Total</b>	<b>2.0000e-004</b>	<b>1.1000e-004</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4326</b>	<b>0.4326</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4363</b>

**3.4 Grading - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1228	0.0000	0.1228	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0247	0.2375	0.2238	5.3000e-004		9.6100e-003	9.6100e-003		8.8400e-003	8.8400e-003	0.0000	46.3303	46.3303	0.0150	0.0000	46.7049
<b>Total</b>	<b>0.0247</b>	<b>0.2375</b>	<b>0.2238</b>	<b>5.3000e-004</b>	<b>0.1228</b>	<b>9.6100e-003</b>	<b>0.1324</b>	<b>0.0359</b>	<b>8.8400e-003</b>	<b>0.0447</b>	<b>0.0000</b>	<b>46.3303</b>	<b>46.3303</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7049</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.2000e-004	3.2300e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.9079	0.9079	2.0000e-005	2.0000e-005	0.9157
<b>Total</b>	<b>4.2000e-004</b>	<b>2.2000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9079</b>	<b>0.9079</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9157</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1228	0.0000	0.1228	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0281	0.2805	5.3000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	46.3302	46.3302	0.0150	0.0000	46.7048
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0281</b>	<b>0.2805</b>	<b>5.3000e-004</b>	<b>0.1228</b>	<b>8.6000e-004</b>	<b>0.1236</b>	<b>0.0359</b>	<b>8.6000e-004</b>	<b>0.0367</b>	<b>0.0000</b>	<b>46.3302</b>	<b>46.3302</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7048</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.2000e-004	3.2300e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.9079	0.9079	2.0000e-005	2.0000e-005	0.9157
<b>Total</b>	<b>4.2000e-004</b>	<b>2.2000e-004</b>	<b>3.2300e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.9079</b>	<b>0.9079</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9157</b>

**3.5 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
<b>Total</b>	<b>0.1367</b>	<b>1.2470</b>	<b>1.6085</b>	<b>2.7000e-003</b>		<b>0.0528</b>	<b>0.0528</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>231.9195</b>	<b>231.9195</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2824</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0128	0.5637	0.1412	2.1500e-003	0.0691	2.8300e-003	0.0720	0.0200	2.7100e-003	0.0227	0.0000	205.9475	205.9475	6.1000e-004	0.0301	214.9404
Worker	0.0716	0.0382	0.5524	1.6900e-003	0.2291	9.3000e-004	0.2300	0.0610	8.5000e-004	0.0618	0.0000	155.4115	155.4115	3.9100e-003	4.1200e-003	156.7371
<b>Total</b>	<b>0.0843</b>	<b>0.6018</b>	<b>0.6935</b>	<b>3.8400e-003</b>	<b>0.2982</b>	<b>3.7600e-003</b>	<b>0.3020</b>	<b>0.0809</b>	<b>3.5600e-003</b>	<b>0.0845</b>	<b>0.0000</b>	<b>361.3590</b>	<b>361.3590</b>	<b>4.5200e-003</b>	<b>0.0343</b>	<b>371.6774</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0328	0.2235	1.7460	2.7000e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
<b>Total</b>	<b>0.0328</b>	<b>0.2235</b>	<b>1.7460</b>	<b>2.7000e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>231.9192</b>	<b>231.9192</b>	<b>0.0545</b>	<b>0.0000</b>	<b>233.2821</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2029**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0128	0.5637	0.1412	2.1500e-003	0.0691	2.8300e-003	0.0720	0.0200	2.7100e-003	0.0227	0.0000	205.9475	205.9475	6.1000e-004	0.0301	214.9404
Worker	0.0716	0.0382	0.5524	1.6900e-003	0.2291	9.3000e-004	0.2300	0.0610	8.5000e-004	0.0618	0.0000	155.4115	155.4115	3.9100e-003	4.1200e-003	156.7371
<b>Total</b>	<b>0.0843</b>	<b>0.6018</b>	<b>0.6935</b>	<b>3.8400e-003</b>	<b>0.2982</b>	<b>3.7600e-003</b>	<b>0.3020</b>	<b>0.0809</b>	<b>3.5600e-003</b>	<b>0.0845</b>	<b>0.0000</b>	<b>361.3590</b>	<b>361.3590</b>	<b>4.5200e-003</b>	<b>0.0343</b>	<b>371.6774</b>

**3.6 Paving - 2029**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7800e-003	0.0729	0.1239	1.9000e-004		3.5600e-003	3.5600e-003		3.2700e-003	3.2700e-003	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1540
Paving	7.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0156</b>	<b>0.0729</b>	<b>0.1239</b>	<b>1.9000e-004</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1540</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	1.7000e-004	2.4200e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6809	0.6809	2.0000e-005	2.0000e-005	0.6867
<b>Total</b>	<b>3.1000e-004</b>	<b>1.7000e-004</b>	<b>2.4200e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6809</b>	<b>0.6809</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6867</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3800e-003	0.0103	0.1470	1.9000e-004		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	17.0164	17.0164	5.5000e-003	0.0000	17.1539
Paving	7.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0102</b>	<b>0.0103</b>	<b>0.1470</b>	<b>1.9000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>17.0164</b>	<b>17.0164</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>17.1539</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	1.7000e-004	2.4200e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6809	0.6809	2.0000e-005	2.0000e-005	0.6867
<b>Total</b>	<b>3.1000e-004</b>	<b>1.7000e-004</b>	<b>2.4200e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6809</b>	<b>0.6809</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6867</b>

**3.7 Architectural Coating - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7400e-003	0.0154	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0498</b>	<b>9.7400e-003</b>	<b>0.0154</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2029**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	6.5000e-004	9.3600e-003	3.0000e-005	3.8800e-003	2.0000e-005	3.9000e-003	1.0300e-003	1.0000e-005	1.0500e-003	0.0000	2.6329	2.6329	7.0000e-005	7.0000e-005	2.6554
<b>Total</b>	<b>1.2100e-003</b>	<b>6.5000e-004</b>	<b>9.3600e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>2.0000e-005</b>	<b>3.9000e-003</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>2.6329</b>	<b>2.6329</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.6554</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	1.0900e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	1.2000e-004	0.0000	2.1732
<b>Total</b>	<b>0.0486</b>	<b>1.0900e-003</b>	<b>0.0156</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1732</b>



CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2029**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	6.5000e-004	9.3600e-003	3.0000e-005	3.8800e-003	2.0000e-005	3.9000e-003	1.0300e-003	1.0000e-005	1.0500e-003	0.0000	2.6329	2.6329	7.0000e-005	7.0000e-005	2.6554
<b>Total</b>	<b>1.2100e-003</b>	<b>6.5000e-004</b>	<b>9.3600e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>2.0000e-005</b>	<b>3.9000e-003</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>2.6329</b>	<b>2.6329</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.6554</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**







CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**





CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

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CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 7 Mitigated  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	18.00	Dwelling Unit	5.06	32,400.00	51
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
City Park	8.00	Acre	8.00	348,480.00	0
Other Asphalt Surfaces	6.00	Acre	6.00	261,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Other Asphalt surfaces accounts for a portion of the 12 acres of Right Of Way and paved areas throughout project area. City Park land use includes 7 acres of "Village Park" and 1 acre of "Neighborhood Park" within the 169 acres of open space. See Excel file CEDH\_Assumptions.

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only.

Woodstoves - Construction run only.

Consumer Products - Construction run only.

Area Coating - Construction run only.

Landscape Equipment - Construction run only.

Water And Wastewater - Construction run only.

Energy Use - Construction run only.

Solid Waste - Construction run only.

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Parking	15682	0
tblAreaCoating	Area_Residential_Exterior	48195	0
tblAreaCoating	Area_Residential_Interior	144585	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	440.00	200.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	45.00	17.00
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	PhaseEndDate	4/25/2031	12/28/2029

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	1/17/2031	11/12/2029
tblConstructionPhase	PhaseEndDate	2/9/2029	12/31/2028
tblConstructionPhase	PhaseEndDate	5/11/2029	2/5/2029
tblConstructionPhase	PhaseEndDate	3/7/2031	12/5/2029
tblConstructionPhase	PhaseEndDate	3/9/2029	1/11/2029
tblConstructionPhase	PhaseStartDate	3/8/2031	12/6/2029
tblConstructionPhase	PhaseStartDate	5/12/2029	2/6/2029
tblConstructionPhase	PhaseStartDate	3/10/2029	1/12/2029
tblConstructionPhase	PhaseStartDate	1/18/2031	11/13/2029
tblConstructionPhase	PhaseStartDate	2/10/2029	1/1/2029
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	9.90	0.00
tblFireplaces	NumberWood	13.65	0.00
tblFireplaces	NumberWood	6.30	0.00
tblGrading	AcresOfGrading	51.00	135.00
tblGrading	AcresOfGrading	13.50	30.00

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.84	5.06
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	12.75	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,172,772.46	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	739,356.55	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.90	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	0.90	0.00

**2.0 Emissions Summary**



CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4706	8.4706	8.0700e-003	0.0000	8.6723
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1402</b>	<b>0.0541</b>	<b>4.6875</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4706</b>	<b>8.4706</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>8.6723</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4706	8.4706	8.0700e-003	0.0000	8.6723
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1402</b>	<b>0.0541</b>	<b>4.6875</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4706</b>	<b>8.4706</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>8.6723</b>

CEFHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2029	12/31/2028	5	0	
2	Site Preparation	Site Preparation	1/1/2029	1/11/2029	5	9	
3	Grading	Grading	1/12/2029	2/5/2029	5	17	
4	Building Construction	Building Construction	2/6/2029	11/12/2029	5	200	
5	Paving	Paving	11/13/2029	12/5/2029	5	17	
6	Architectural Coating	Architectural Coating	12/6/2029	12/28/2029	5	17	

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6**

**Residential Indoor: 144,585; Residential Outdoor: 48,195; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,682 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	291.00	106.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.6013	0.0000	21.6013	10.3124	0.0000	10.3124			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>21.6013</b>	<b>1.0868</b>	<b>22.6881</b>	<b>10.3124</b>	<b>0.9999</b>	<b>11.3122</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0494	0.0208	0.3701	1.1300e-003	0.1479	5.7000e-004	0.1484	0.0392	5.3000e-004	0.0398		113.8384	113.8384	2.4300e-003	2.5800e-003	114.6685
<b>Total</b>	<b>0.0494</b>	<b>0.0208</b>	<b>0.3701</b>	<b>1.1300e-003</b>	<b>0.1479</b>	<b>5.7000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>5.3000e-004</b>	<b>0.0398</b>		<b>113.8384</b>	<b>113.8384</b>	<b>2.4300e-003</b>	<b>2.5800e-003</b>	<b>114.6685</b>



CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.6013	0.0000	21.6013	10.3124	0.0000	10.3124			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0381</b>	<b>21.6013</b>	<b>0.0621</b>	<b>21.6633</b>	<b>10.3124</b>	<b>0.0621</b>	<b>10.3745</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0494	0.0208	0.3701	1.1300e-003	0.1479	5.7000e-004	0.1484	0.0392	5.3000e-004	0.0398		113.8384	113.8384	2.4300e-003	2.5800e-003	114.6685
<b>Total</b>	<b>0.0494</b>	<b>0.0208</b>	<b>0.3701</b>	<b>1.1300e-003</b>	<b>0.1479</b>	<b>5.7000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>5.3000e-004</b>	<b>0.0398</b>		<b>113.8384</b>	<b>113.8384</b>	<b>2.4300e-003</b>	<b>2.5800e-003</b>	<b>114.6685</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					14.4437	0.0000	14.4437	4.2196	0.0000	4.2196			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>14.4437</b>	<b>1.1309</b>	<b>15.5746</b>	<b>4.2196</b>	<b>1.0404</b>	<b>5.2600</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0549	0.0231	0.4112	1.2500e-003	0.1643	6.4000e-004	0.1649	0.0436	5.9000e-004	0.0442		126.4872	126.4872	2.7000e-003	2.8700e-003	127.4095
<b>Total</b>	<b>0.0549</b>	<b>0.0231</b>	<b>0.4112</b>	<b>1.2500e-003</b>	<b>0.1643</b>	<b>6.4000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.9000e-004</b>	<b>0.0442</b>		<b>126.4872</b>	<b>126.4872</b>	<b>2.7000e-003</b>	<b>2.8700e-003</b>	<b>127.4095</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					14.4437	0.0000	14.4437	4.2196	0.0000	4.2196			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0621</b>	<b>14.4437</b>	<b>0.1015</b>	<b>14.5453</b>	<b>4.2196</b>	<b>0.1015</b>	<b>4.3211</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0549	0.0231	0.4112	1.2500e-003	0.1643	6.4000e-004	0.1649	0.0436	5.9000e-004	0.0442		126.4872	126.4872	2.7000e-003	2.8700e-003	127.4095
<b>Total</b>	<b>0.0549</b>	<b>0.0231</b>	<b>0.4112</b>	<b>1.2500e-003</b>	<b>0.1643</b>	<b>6.4000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.9000e-004</b>	<b>0.0442</b>		<b>126.4872</b>	<b>126.4872</b>	<b>2.7000e-003</b>	<b>2.8700e-003</b>	<b>127.4095</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1301	5.4337	1.3837	0.0215	0.7156	0.0283	0.7439	0.2059	0.0270	0.2329		2,269.106 7	2,269.106 7	6.7900e-003	0.3317	2,368.118 5
Worker	0.7993	0.3361	5.9835	0.0182	2.3905	9.2700e-003	2.3998	0.6341	8.5300e-003	0.6426		1,840.388 2	1,840.388 2	0.0392	0.0417	1,853.807 5
<b>Total</b>	<b>0.9293</b>	<b>5.7697</b>	<b>7.3672</b>	<b>0.0397</b>	<b>3.1061</b>	<b>0.0375</b>	<b>3.1437</b>	<b>0.8399</b>	<b>0.0356</b>	<b>0.8755</b>		<b>4,109.494 9</b>	<b>4,109.494 9</b>	<b>0.0460</b>	<b>0.3734</b>	<b>4,221.926 0</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0270</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1301	5.4337	1.3837	0.0215	0.7156	0.0283	0.7439	0.2059	0.0270	0.2329		2,269.106 7	2,269.106 7	6.7900e-003	0.3317	2,368.118 5
Worker	0.7993	0.3361	5.9835	0.0182	2.3905	9.2700e-003	2.3998	0.6341	8.5300e-003	0.6426		1,840.388 2	1,840.388 2	0.0392	0.0417	1,853.807 5
<b>Total</b>	<b>0.9293</b>	<b>5.7697</b>	<b>7.3672</b>	<b>0.0397</b>	<b>3.1061</b>	<b>0.0375</b>	<b>3.1437</b>	<b>0.8399</b>	<b>0.0356</b>	<b>0.8755</b>		<b>4,109.494 9</b>	<b>4,109.494 9</b>	<b>0.0460</b>	<b>0.3734</b>	<b>4,221.926 0</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8399</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0412	0.0173	0.3084	9.4000e-004	0.1232	4.8000e-004	0.1237	0.0327	4.4000e-004	0.0331		94.8654	94.8654	2.0200e-003	2.1500e-003	95.5571
<b>Total</b>	<b>0.0412</b>	<b>0.0173</b>	<b>0.3084</b>	<b>9.4000e-004</b>	<b>0.1232</b>	<b>4.8000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.4000e-004</b>	<b>0.0331</b>		<b>94.8654</b>	<b>94.8654</b>	<b>2.0200e-003</b>	<b>2.1500e-003</b>	<b>95.5571</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2052</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0412	0.0173	0.3084	9.4000e-004	0.1232	4.8000e-004	0.1237	0.0327	4.4000e-004	0.0331		94.8654	94.8654	2.0200e-003	2.1500e-003	95.5571
<b>Total</b>	<b>0.0412</b>	<b>0.0173</b>	<b>0.3084</b>	<b>9.4000e-004</b>	<b>0.1232</b>	<b>4.8000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.4000e-004</b>	<b>0.0331</b>		<b>94.8654</b>	<b>94.8654</b>	<b>2.0200e-003</b>	<b>2.1500e-003</b>	<b>95.5571</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>5.8545</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1593	0.0670	1.1926	3.6300e-003	0.4765	1.8500e-003	0.4783	0.1264	1.7000e-003	0.1281		366.8128	366.8128	7.8200e-003	8.3200e-003	369.4874
<b>Total</b>	<b>0.1593</b>	<b>0.0670</b>	<b>1.1926</b>	<b>3.6300e-003</b>	<b>0.4765</b>	<b>1.8500e-003</b>	<b>0.4783</b>	<b>0.1264</b>	<b>1.7000e-003</b>	<b>0.1281</b>		<b>366.8128</b>	<b>366.8128</b>	<b>7.8200e-003</b>	<b>8.3200e-003</b>	<b>369.4874</b>



CEHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2029**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>5.7134</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1593	0.0670	1.1926	3.6300e-003	0.4765	1.8500e-003	0.4783	0.1264	1.7000e-003	0.1281		366.8128	366.8128	7.8200e-003	8.3200e-003	369.4874
<b>Total</b>	<b>0.1593</b>	<b>0.0670</b>	<b>1.1926</b>	<b>3.6300e-003</b>	<b>0.4765</b>	<b>1.8500e-003</b>	<b>0.4783</b>	<b>0.1264</b>	<b>1.7000e-003</b>	<b>0.1281</b>		<b>366.8128</b>	<b>366.8128</b>	<b>7.8200e-003</b>	<b>8.3200e-003</b>	<b>369.4874</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Other Asphalt Surfaces	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4706	8.4706	8.0700e-003	0.0000	8.6723
Unmitigated	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4706	8.4706	8.0700e-003	0.0000	8.6723

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4706	8.4706	8.0700e-003		8.6723
<b>Total</b>	<b>0.1402</b>	<b>0.0541</b>	<b>4.6875</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4706</b>	<b>8.4706</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>8.6723</b>

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1402	0.0541	4.6875	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4706	8.4706	8.0700e-003		8.6723
<b>Total</b>	<b>0.1402</b>	<b>0.0541</b>	<b>4.6875</b>	<b>2.5000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0261</b>	<b>0.0261</b>	<b>0.0000</b>	<b>8.4706</b>	<b>8.4706</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>8.6723</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 7 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 8 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
City Park	8.00	Acre	8.00	348,480.00	0
Other Asphalt Surfaces	6.00	Acre	6.00	261,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Other Asphalt surfaces accounts for a portion of the 12 acres of Right Of Way and paved areas throughout project area. Government civic land use includes 11 acres of "Commercial Use" or 50,000 square feet.

See Excel file CEDH\_Assumptions.

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Parking	15682	0
tblAreaCoating	Area_Residential_Exterior	45765	0
tblAreaCoating	Area_Residential_Interior	137295	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	440.00	200.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	45.00	17.00

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	PhaseEndDate	4/26/2032	12/31/2030
tblConstructionPhase	PhaseEndDate	1/19/2032	11/12/2030
tblConstructionPhase	PhaseEndDate	2/11/2030	12/31/2029
tblConstructionPhase	PhaseEndDate	5/13/2030	2/5/2030
tblConstructionPhase	PhaseEndDate	3/8/2032	12/6/2030
tblConstructionPhase	PhaseEndDate	3/11/2030	1/11/2030
tblConstructionPhase	PhaseStartDate	3/9/2032	12/9/2030
tblConstructionPhase	PhaseStartDate	5/14/2030	2/6/2030
tblConstructionPhase	PhaseStartDate	3/12/2030	1/14/2030
tblConstructionPhase	PhaseStartDate	1/20/2032	11/14/2030
tblConstructionPhase	PhaseStartDate	2/12/2030	1/1/2030
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.65	0.00

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	135.00
tblGrading	AcresOfGrading	13.50	30.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberNoncatalytic	0.80	0.00
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**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.3177	1.6263	2.7166	7.9800e-003	0.5243	0.0275	0.5518	0.1648	0.0273	0.1922	0.0000	717.5632	717.5632	0.0190	0.0336	728.0451
<b>Maximum</b>	<b>0.3177</b>	<b>1.6263</b>	<b>2.7166</b>	<b>7.9800e-003</b>	<b>0.5243</b>	<b>0.0275</b>	<b>0.5518</b>	<b>0.1648</b>	<b>0.0273</b>	<b>0.1922</b>	<b>0.0000</b>	<b>717.5632</b>	<b>717.5632</b>	<b>0.0190</b>	<b>0.0336</b>	<b>728.0451</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.1790	0.8578	2.9649	7.9800e-003	0.5243	9.2000e-003	0.5335	0.1648	9.0100e-003	0.1738	0.0000	717.5627	717.5627	0.0190	0.0336	728.0447
<b>Maximum</b>	<b>0.1790</b>	<b>0.8578</b>	<b>2.9649</b>	<b>7.9800e-003</b>	<b>0.5243</b>	<b>9.2000e-003</b>	<b>0.5335</b>	<b>0.1648</b>	<b>9.0100e-003</b>	<b>0.1738</b>	<b>0.0000</b>	<b>717.5627</b>	<b>717.5627</b>	<b>0.0190</b>	<b>0.0336</b>	<b>728.0447</b>



CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2030	12/31/2029	5	0	
2	Site Preparation	Site Preparation	1/1/2030	1/11/2030	5	9	
3	Grading	Grading	1/14/2030	2/5/2030	5	17	



CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2030	11/12/2030	5	200
5	Paving	Paving	11/14/2030	12/6/2030	5	17
6	Architectural Coating	Architectural Coating	12/9/2030	12/31/2030	5	17

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6**

**Residential Indoor: 137,295; Residential Outdoor: 45,765; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,682 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	290.00	106.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

**3.3 Site Preparation - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0972	0.0000	0.0972	0.0464	0.0000	0.0464	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0972</b>	<b>1.9600e-003</b>	<b>0.0992</b>	<b>0.0464</b>	<b>1.9600e-003</b>	<b>0.0484</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.0000e-004	1.4700e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4226	0.4226	1.0000e-005	1.0000e-005	0.4261
<b>Total</b>	<b>1.9000e-004</b>	<b>1.0000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4226</b>	<b>0.4226</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4261</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0972	0.0000	0.0972	0.0464	0.0000	0.0464	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>2.1000e-004</b>	<b>0.0972</b>	<b>2.8000e-004</b>	<b>0.0975</b>	<b>0.0464</b>	<b>2.8000e-004</b>	<b>0.0467</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.0000e-004	1.4700e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4226	0.4226	1.0000e-005	1.0000e-005	0.4261
<b>Total</b>	<b>1.9000e-004</b>	<b>1.0000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4226</b>	<b>0.4226</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4261</b>

**3.4 Grading - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1228	0.0000	0.1228	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6208	55.6208	2.2500e-003	0.0000	55.6770
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.1228</b>	<b>4.1500e-003</b>	<b>0.1269</b>	<b>0.0359</b>	<b>4.1500e-003</b>	<b>0.0400</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6770</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.1000e-004	3.0800e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8869	0.8869	2.0000e-005	2.0000e-005	0.8943
<b>Total</b>	<b>3.9000e-004</b>	<b>2.1000e-004</b>	<b>3.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8869</b>	<b>0.8869</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8943</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1228	0.0000	0.1228	0.0359	0.0000	0.0359	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0281	0.2805	5.9000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	55.6207	55.6207	2.2500e-003	0.0000	55.6769
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0281</b>	<b>0.2805</b>	<b>5.9000e-004</b>	<b>0.1228</b>	<b>8.6000e-004</b>	<b>0.1236</b>	<b>0.0359</b>	<b>8.6000e-004</b>	<b>0.0367</b>	<b>0.0000</b>	<b>55.6207</b>	<b>55.6207</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6769</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2030**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.1000e-004	3.0800e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8869	0.8869	2.0000e-005	2.0000e-005	0.8943
<b>Total</b>	<b>3.9000e-004</b>	<b>2.1000e-004</b>	<b>3.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8869</b>	<b>0.8869</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8943</b>

**3.5 Building Construction - 2030**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8610	262.8610	0.0106	0.0000	263.1247
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1247</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0126	0.5497	0.1406	2.1200e-003	0.0691	2.7400e-003	0.0719	0.0200	2.6200e-003	0.0226	0.0000	202.5785	202.5785	6.0000e-004	0.0295	211.3903
Worker	0.0665	0.0351	0.5255	1.6500e-003	0.2283	8.6000e-004	0.2292	0.0608	7.9000e-004	0.0615	0.0000	151.2991	151.2991	3.6000e-003	3.9400e-003	152.5630
<b>Total</b>	<b>0.0791</b>	<b>0.5848</b>	<b>0.6661</b>	<b>3.7700e-003</b>	<b>0.2974</b>	<b>3.6000e-003</b>	<b>0.3010</b>	<b>0.0807</b>	<b>3.4100e-003</b>	<b>0.0842</b>	<b>0.0000</b>	<b>353.8776</b>	<b>353.8776</b>	<b>4.2000e-003</b>	<b>0.0335</b>	<b>363.9533</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0328	0.2235	1.7460	3.1000e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	262.8607	262.8607	0.0106	0.0000	263.1243
<b>Total</b>	<b>0.0328</b>	<b>0.2235</b>	<b>1.7460</b>	<b>3.1000e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1243</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0126	0.5497	0.1406	2.1200e-003	0.0691	2.7400e-003	0.0719	0.0200	2.6200e-003	0.0226	0.0000	202.5785	202.5785	6.0000e-004	0.0295	211.3903
Worker	0.0665	0.0351	0.5255	1.6500e-003	0.2283	8.6000e-004	0.2292	0.0608	7.9000e-004	0.0615	0.0000	151.2991	151.2991	3.6000e-003	3.9400e-003	152.5630
<b>Total</b>	<b>0.0791</b>	<b>0.5848</b>	<b>0.6661</b>	<b>3.7700e-003</b>	<b>0.2974</b>	<b>3.6000e-003</b>	<b>0.3010</b>	<b>0.0807</b>	<b>3.4100e-003</b>	<b>0.0842</b>	<b>0.0000</b>	<b>353.8776</b>	<b>353.8776</b>	<b>4.2000e-003</b>	<b>0.0335</b>	<b>363.9533</b>

**3.6 Paving - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	7.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0196</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>



CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.5000e-004	2.3100e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6652	0.6652	2.0000e-005	2.0000e-005	0.6708
<b>Total</b>	<b>2.9000e-004</b>	<b>1.5000e-004</b>	<b>2.3100e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6652</b>	<b>0.6652</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6708</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3800e-003	0.0103	0.1470	2.4000e-004		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	7.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0102</b>	<b>0.0103</b>	<b>0.1470</b>	<b>2.4000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	1.5000e-004	2.3100e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6652	0.6652	2.0000e-005	2.0000e-005	0.6708
<b>Total</b>	<b>2.9000e-004</b>	<b>1.5000e-004</b>	<b>2.3100e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6652</b>	<b>0.6652</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6708</b>

**3.7 Architectural Coating - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0461					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>0.0472</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2030**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	6.0000e-004	8.9300e-003	3.0000e-005	3.8800e-003	1.0000e-005	3.9000e-003	1.0300e-003	1.0000e-005	1.0500e-003	0.0000	2.5721	2.5721	6.0000e-005	7.0000e-005	2.5936
<b>Total</b>	<b>1.1300e-003</b>	<b>6.0000e-004</b>	<b>8.9300e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>1.0000e-005</b>	<b>3.9000e-003</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>2.5721</b>	<b>2.5721</b>	<b>6.0000e-005</b>	<b>7.0000e-005</b>	<b>2.5936</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0461					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	1.0900e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>0.0463</b>	<b>1.0900e-003</b>	<b>0.0156</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2030**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	6.0000e-004	8.9300e-003	3.0000e-005	3.8800e-003	1.0000e-005	3.9000e-003	1.0300e-003	1.0000e-005	1.0500e-003	0.0000	2.5721	2.5721	6.0000e-005	7.0000e-005	2.5936
<b>Total</b>	<b>1.1300e-003</b>	<b>6.0000e-004</b>	<b>8.9300e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>1.0000e-005</b>	<b>3.9000e-003</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>2.5721</b>	<b>2.5721</b>	<b>6.0000e-005</b>	<b>7.0000e-005</b>	<b>2.5936</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**









CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment



CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 8 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	39.00	Dwelling Unit	7.55	39,000.00	112
City Park	8.00	Acre	8.00	348,480.00	0
Other Asphalt Surfaces	6.00	Acre	6.00	261,360.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Other Asphalt surfaces accounts for a portion of the 12 acres of Right Of Way and paved areas throughout project area. Government civic land use includes 11 acres of "Commercial Use" or 50,000 square feet.

See Excel file CEDH\_Assumptions.

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Parking	15682	0
tblAreaCoating	Area_Residential_Exterior	45765	0
tblAreaCoating	Area_Residential_Interior	137295	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	440.00	200.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	45.00	17.00

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	NumDays	35.00	17.00
tblConstructionPhase	NumDays	20.00	9.00
tblConstructionPhase	PhaseEndDate	4/26/2032	12/31/2030
tblConstructionPhase	PhaseEndDate	1/19/2032	11/12/2030
tblConstructionPhase	PhaseEndDate	2/11/2030	12/31/2029
tblConstructionPhase	PhaseEndDate	5/13/2030	2/5/2030
tblConstructionPhase	PhaseEndDate	3/8/2032	12/6/2030
tblConstructionPhase	PhaseEndDate	3/11/2030	1/11/2030
tblConstructionPhase	PhaseStartDate	3/9/2032	12/9/2030
tblConstructionPhase	PhaseStartDate	5/14/2030	2/6/2030
tblConstructionPhase	PhaseStartDate	3/12/2030	1/14/2030
tblConstructionPhase	PhaseStartDate	1/20/2032	11/14/2030
tblConstructionPhase	PhaseStartDate	2/12/2030	1/1/2030
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.65	0.00

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	135.00
tblGrading	AcresOfGrading	13.50	30.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.44	7.55
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.69	0.00
tblSolidWaste	SolidWasteGenerationRate	17.94	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,541,007.00	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	9,531,850.80	0.00
tblWater	OutdoorWaterUseRate	1,601,939.20	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberNoncatalytic	0.80	0.00
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**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	5.6980	13.8675	23.4162	0.0712	21.7491	0.4885	22.1863	10.3516	0.4885	10.7888	0.0000	7,336.6779	7,336.6779	0.2940	0.3649	7,344.8481
<b>Maximum</b>	<b>5.6980</b>	<b>13.8675</b>	<b>23.4162</b>	<b>0.0712</b>	<b>21.7491</b>	<b>0.4885</b>	<b>22.1863</b>	<b>10.3516</b>	<b>0.4885</b>	<b>10.7888</b>	<b>0.0000</b>	<b>7,336.6779</b>	<b>7,336.6779</b>	<b>0.2940</b>	<b>0.3649</b>	<b>7,344.8481</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	5.5969	7.8434	33.3915	0.0712	21.7491	0.1021	21.8117	10.3516	0.1021	10.4142	0.0000	7,336.6779	7,336.6779	0.2940	0.3649	7,344.8481
<b>Maximum</b>	<b>5.5969</b>	<b>7.8434</b>	<b>33.3915</b>	<b>0.0712</b>	<b>21.7491</b>	<b>0.1021</b>	<b>21.8117</b>	<b>10.3516</b>	<b>0.1021</b>	<b>10.4142</b>	<b>0.0000</b>	<b>7,336.6779</b>	<b>7,336.6779</b>	<b>0.2940</b>	<b>0.3649</b>	<b>7,344.8481</b>





CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252	0.0000	8.1734	8.1734	7.7900e-003	0.0000	8.3681
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1353</b>	<b>0.0522</b>	<b>4.5230</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>8.1734</b>	<b>8.1734</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>8.3681</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252	0.0000	8.1734	8.1734	7.7900e-003	0.0000	8.3681
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1353</b>	<b>0.0522</b>	<b>4.5230</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>8.1734</b>	<b>8.1734</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>8.3681</b>

CEHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2030	12/31/2029	5	0	
2	Site Preparation	Site Preparation	1/1/2030	1/11/2030	5	9	
3	Grading	Grading	1/14/2030	2/5/2030	5	17	
4	Building Construction	Building Construction	2/6/2030	11/12/2030	5	200	
5	Paving	Paving	11/14/2030	12/6/2030	5	17	
6	Architectural Coating	Architectural Coating	12/9/2030	12/31/2030	5	17	

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 6**

**Residential Indoor: 137,295; Residential Outdoor: 45,765; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 15,682 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	290.00	106.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.6013	0.0000	21.6013	10.3124	0.0000	10.3124			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>21.6013</b>	<b>0.4367</b>	<b>22.0379</b>	<b>10.3124</b>	<b>0.4367</b>	<b>10.7490</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0192	0.3531	1.1000e-003	0.1479	5.3000e-004	0.1484	0.0392	4.9000e-004	0.0397		111.2124	111.2124	2.2300e-003	2.4800e-003	112.0066
<b>Total</b>	<b>0.0461</b>	<b>0.0192</b>	<b>0.3531</b>	<b>1.1000e-003</b>	<b>0.1479</b>	<b>5.3000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>4.9000e-004</b>	<b>0.0397</b>		<b>111.2124</b>	<b>111.2124</b>	<b>2.2300e-003</b>	<b>2.4800e-003</b>	<b>112.0066</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.6013	0.0000	21.6013	10.3124	0.0000	10.3124			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>21.6013</b>	<b>0.0621</b>	<b>21.6633</b>	<b>10.3124</b>	<b>0.0621</b>	<b>10.3745</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0461	0.0192	0.3531	1.1000e-003	0.1479	5.3000e-004	0.1484	0.0392	4.9000e-004	0.0397		111.2124	111.2124	2.2300e-003	2.4800e-003	112.0066
<b>Total</b>	<b>0.0461</b>	<b>0.0192</b>	<b>0.3531</b>	<b>1.1000e-003</b>	<b>0.1479</b>	<b>5.3000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>4.9000e-004</b>	<b>0.0397</b>		<b>111.2124</b>	<b>111.2124</b>	<b>2.2300e-003</b>	<b>2.4800e-003</b>	<b>112.0066</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					14.4437	0.0000	14.4437	4.2196	0.0000	4.2196			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>14.4437</b>	<b>0.4879</b>	<b>14.9316</b>	<b>4.2196</b>	<b>0.4879</b>	<b>4.7075</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0512	0.0213	0.3924	1.2200e-003	0.1643	5.9000e-004	0.1649	0.0436	5.5000e-004	0.0441		123.5693	123.5693	2.4800e-003	2.7500e-003	124.4518
<b>Total</b>	<b>0.0512</b>	<b>0.0213</b>	<b>0.3924</b>	<b>1.2200e-003</b>	<b>0.1643</b>	<b>5.9000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.5000e-004</b>	<b>0.0441</b>		<b>123.5693</b>	<b>123.5693</b>	<b>2.4800e-003</b>	<b>2.7500e-003</b>	<b>124.4518</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					14.4437	0.0000	14.4437	4.2196	0.0000	4.2196			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>14.4437</b>	<b>0.1015</b>	<b>14.5453</b>	<b>4.2196</b>	<b>0.1015</b>	<b>4.3211</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0512	0.0213	0.3924	1.2200e-003	0.1643	5.9000e-004	0.1649	0.0436	5.5000e-004	0.0441		123.5693	123.5693	2.4800e-003	2.7500e-003	124.4518
<b>Total</b>	<b>0.0512</b>	<b>0.0213</b>	<b>0.3924</b>	<b>1.2200e-003</b>	<b>0.1643</b>	<b>5.9000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.5000e-004</b>	<b>0.0441</b>		<b>123.5693</b>	<b>123.5693</b>	<b>2.4800e-003</b>	<b>2.7500e-003</b>	<b>124.4518</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1282	5.2996	1.3780	0.0212	0.7157	0.0273	0.7430	0.2059	0.0261	0.2320		2,231.9201	2,231.9201	6.6900e-003	0.3250	2,328.9342
Worker	0.7430	0.3091	5.6892	0.0177	2.3823	8.6000e-003	2.3909	0.6319	7.9200e-003	0.6398		1,791.7551	1,791.7551	0.0360	0.0399	1,804.5513
<b>Total</b>	<b>0.8711</b>	<b>5.6087</b>	<b>7.0672</b>	<b>0.0389</b>	<b>3.0980</b>	<b>0.0359</b>	<b>3.1339</b>	<b>0.8378</b>	<b>0.0341</b>	<b>0.8718</b>		<b>4,023.6752</b>	<b>4,023.6752</b>	<b>0.0427</b>	<b>0.3649</b>	<b>4,133.4855</b>



CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1282	5.2996	1.3780	0.0212	0.7157	0.0273	0.7430	0.2059	0.0261	0.2320		2,231.9201	2,231.9201	6.6900e-003	0.3250	2,328.9342
Worker	0.7430	0.3091	5.6892	0.0177	2.3823	8.6000e-003	2.3909	0.6319	7.9200e-003	0.6398		1,791.7551	1,791.7551	0.0360	0.0399	1,804.5513
<b>Total</b>	<b>0.8711</b>	<b>5.6087</b>	<b>7.0672</b>	<b>0.0389</b>	<b>3.0980</b>	<b>0.0359</b>	<b>3.1339</b>	<b>0.8378</b>	<b>0.0341</b>	<b>0.8718</b>		<b>4,023.6752</b>	<b>4,023.6752</b>	<b>0.0427</b>	<b>0.3649</b>	<b>4,133.4855</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.9247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.3092</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0384	0.0160	0.2943	9.2000e-004	0.1232	4.5000e-004	0.1237	0.0327	4.1000e-004	0.0331		92.6770	92.6770	1.8600e-003	2.0600e-003	93.3389
<b>Total</b>	<b>0.0384</b>	<b>0.0160</b>	<b>0.2943</b>	<b>9.2000e-004</b>	<b>0.1232</b>	<b>4.5000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.1000e-004</b>	<b>0.0331</b>		<b>92.6770</b>	<b>92.6770</b>	<b>1.8600e-003</b>	<b>2.0600e-003</b>	<b>93.3389</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.9247					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2052</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0384	0.0160	0.2943	9.2000e-004	0.1232	4.5000e-004	0.1237	0.0327	4.1000e-004	0.0331		92.6770	92.6770	1.8600e-003	2.0600e-003	93.3389
<b>Total</b>	<b>0.0384</b>	<b>0.0160</b>	<b>0.2943</b>	<b>9.2000e-004</b>	<b>0.1232</b>	<b>4.5000e-004</b>	<b>0.1237</b>	<b>0.0327</b>	<b>4.1000e-004</b>	<b>0.0331</b>		<b>92.6770</b>	<b>92.6770</b>	<b>1.8600e-003</b>	<b>2.0600e-003</b>	<b>93.3389</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.4186					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>5.5494</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1486	0.0618	1.1378	3.5500e-003	0.4765	1.7200e-003	0.4782	0.1264	1.5800e-003	0.1280		358.3510	358.3510	7.2000e-003	7.9800e-003	360.9103
<b>Total</b>	<b>0.1486</b>	<b>0.0618</b>	<b>1.1378</b>	<b>3.5500e-003</b>	<b>0.4765</b>	<b>1.7200e-003</b>	<b>0.4782</b>	<b>0.1264</b>	<b>1.5800e-003</b>	<b>0.1280</b>		<b>358.3510</b>	<b>358.3510</b>	<b>7.2000e-003</b>	<b>7.9800e-003</b>	<b>360.9103</b>

CEHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.4186					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>5.4484</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1486	0.0618	1.1378	3.5500e-003	0.4765	1.7200e-003	0.4782	0.1264	1.5800e-003	0.1280		358.3510	358.3510	7.2000e-003	7.9800e-003	360.9103
<b>Total</b>	<b>0.1486</b>	<b>0.0618</b>	<b>1.1378</b>	<b>3.5500e-003</b>	<b>0.4765</b>	<b>1.7200e-003</b>	<b>0.4782</b>	<b>0.1264</b>	<b>1.5800e-003</b>	<b>0.1280</b>		<b>358.3510</b>	<b>358.3510</b>	<b>7.2000e-003</b>	<b>7.9800e-003</b>	<b>360.9103</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Other Asphalt Surfaces	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252	0.0000	8.1734	8.1734	7.7900e-003	0.0000	8.3681
Unmitigated	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252	0.0000	8.1734	8.1734	7.7900e-003	0.0000	8.3681

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252		8.1734	8.1734	7.7900e-003		8.3681
<b>Total</b>	<b>0.1353</b>	<b>0.0522</b>	<b>4.5230</b>	<b>2.4000e-004</b>		<b>0.0252</b>	<b>0.0252</b>		<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>8.1734</b>	<b>8.1734</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>8.3681</b>

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1353	0.0522	4.5230	2.4000e-004		0.0252	0.0252		0.0252	0.0252		8.1734	8.1734	7.7900e-003		8.3681
<b>Total</b>	<b>0.1353</b>	<b>0.0522</b>	<b>4.5230</b>	<b>2.4000e-004</b>		<b>0.0252</b>	<b>0.0252</b>		<b>0.0252</b>	<b>0.0252</b>	<b>0.0000</b>	<b>8.1734</b>	<b>8.1734</b>	<b>7.7900e-003</b>	<b>0.0000</b>	<b>8.3681</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 8 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 9 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	38.00	Dwelling Unit	7.35	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days  
Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	45090	0
tblAreaCoating	Area_Residential_Interior	135270	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2032	12/30/2031
tblConstructionPhase	PhaseEndDate	5/18/2032	11/12/2031
tblConstructionPhase	PhaseEndDate	1/28/2031	12/31/2030
tblConstructionPhase	PhaseEndDate	3/25/2031	2/5/2031
tblConstructionPhase	PhaseEndDate	6/15/2032	12/5/2031
tblConstructionPhase	PhaseEndDate	2/11/2031	1/13/2031
tblConstructionPhase	PhaseStartDate	6/16/2032	12/8/2031
tblConstructionPhase	PhaseStartDate	3/26/2031	2/6/2031
tblConstructionPhase	PhaseStartDate	2/12/2031	1/14/2031
tblConstructionPhase	PhaseStartDate	5/19/2032	11/13/2031
tblConstructionPhase	PhaseStartDate	1/29/2031	1/1/2031
tblConsumerProducts	ROG_EF	2.14E-05	0

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	20.90	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.30	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.38	7.35
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	17.48	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00



CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	1,560,863.83	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2031	12/31/2030	5	0	
2	Site Preparation	Site Preparation	1/1/2031	1/13/2031	5	9	
3	Grading	Grading	1/14/2031	2/5/2031	5	17	

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2031	11/12/2031	5	200
5	Paving	Paving	11/13/2031	12/5/2031	5	17
6	Architectural Coating	Architectural Coating	12/8/2031	12/30/2031	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 135,270; Residential Outdoor: 45,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.9600e-003</b>	<b>0.0912</b>	<b>0.0456</b>	<b>1.9600e-003</b>	<b>0.0475</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	9.0000e-005	1.4100e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4137	0.4137	1.0000e-005	1.0000e-005	0.4170
<b>Total</b>	<b>1.7000e-004</b>	<b>9.0000e-005</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4137</b>	<b>0.4137</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4170</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>2.8000e-004</b>	<b>0.0895</b>	<b>0.0456</b>	<b>2.8000e-004</b>	<b>0.0458</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	9.0000e-005	1.4100e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4137	0.4137	1.0000e-005	1.0000e-005	0.4170
<b>Total</b>	<b>1.7000e-004</b>	<b>9.0000e-005</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4137</b>	<b>0.4137</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4170</b>

**3.4 Grading - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6208	55.6208	2.2500e-003	0.0000	55.6770
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>4.1500e-003</b>	<b>0.1031</b>	<b>0.0333</b>	<b>4.1500e-003</b>	<b>0.0374</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6770</b>



CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	1.9000e-004	2.9500e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8682	0.8682	2.0000e-005	2.0000e-005	0.8753
<b>Total</b>	<b>3.6000e-004</b>	<b>1.9000e-004</b>	<b>2.9500e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8682</b>	<b>0.8682</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8753</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0281	0.2805	5.9000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	55.6207	55.6207	2.2500e-003	0.0000	55.6769
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0281</b>	<b>0.2805</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>8.6000e-004</b>	<b>0.0998</b>	<b>0.0333</b>	<b>8.6000e-004</b>	<b>0.0342</b>	<b>0.0000</b>	<b>55.6207</b>	<b>55.6207</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6769</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	1.9000e-004	2.9500e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8682	0.8682	2.0000e-005	2.0000e-005	0.8753
<b>Total</b>	<b>3.6000e-004</b>	<b>1.9000e-004</b>	<b>2.9500e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8682</b>	<b>0.8682</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8753</b>

**3.5 Building Construction - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8610	262.8610	0.0106	0.0000	263.1247
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1247</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0304	7.9400e-003	1.2000e-004	3.9100e-003	1.5000e-004	4.0600e-003	1.1300e-003	1.4000e-004	1.2700e-003	0.0000	11.2923	11.2923	3.0000e-005	1.6400e-003	11.7820
Worker	7.0400e-003	3.7000e-003	0.0573	1.8000e-004	0.0260	9.0000e-005	0.0261	6.9100e-003	8.0000e-005	7.0000e-003	0.0000	16.8523	16.8523	3.8000e-004	4.3000e-004	16.9905
<b>Total</b>	<b>7.7400e-003</b>	<b>0.0341</b>	<b>0.0652</b>	<b>3.0000e-004</b>	<b>0.0299</b>	<b>2.4000e-004</b>	<b>0.0301</b>	<b>8.0400e-003</b>	<b>2.2000e-004</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>28.1445</b>	<b>28.1445</b>	<b>4.1000e-004</b>	<b>2.0700e-003</b>	<b>28.7725</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0328	0.2235	1.7460	3.1000e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	262.8607	262.8607	0.0106	0.0000	263.1243
<b>Total</b>	<b>0.0328</b>	<b>0.2235</b>	<b>1.7460</b>	<b>3.1000e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1243</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2031**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0304	7.9400e-003	1.2000e-004	3.9100e-003	1.5000e-004	4.0600e-003	1.1300e-003	1.4000e-004	1.2700e-003	0.0000	11.2923	11.2923	3.0000e-005	1.6400e-003	11.7820
Worker	7.0400e-003	3.7000e-003	0.0573	1.8000e-004	0.0260	9.0000e-005	0.0261	6.9100e-003	8.0000e-005	7.0000e-003	0.0000	16.8523	16.8523	3.8000e-004	4.3000e-004	16.9905
<b>Total</b>	<b>7.7400e-003</b>	<b>0.0341</b>	<b>0.0652</b>	<b>3.0000e-004</b>	<b>0.0299</b>	<b>2.4000e-004</b>	<b>0.0301</b>	<b>8.0400e-003</b>	<b>2.2000e-004</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>28.1445</b>	<b>28.1445</b>	<b>4.1000e-004</b>	<b>2.0700e-003</b>	<b>28.7725</b>

**3.6 Paving - 2031**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0118</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.4000e-004	2.2100e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6511	0.6511	1.0000e-005	2.0000e-005	0.6565
<b>Total</b>	<b>2.7000e-004</b>	<b>1.4000e-004</b>	<b>2.2100e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6511</b>	<b>0.6511</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6565</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3800e-003	0.0103	0.1470	2.4000e-004		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.3800e-003</b>	<b>0.0103</b>	<b>0.1470</b>	<b>2.4000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.4000e-004	2.2100e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6511	0.6511	1.0000e-005	2.0000e-005	0.6565
<b>Total</b>	<b>2.7000e-004</b>	<b>1.4000e-004</b>	<b>2.2100e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6511</b>	<b>0.6511</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6565</b>

**3.7 Architectural Coating - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.0461</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2031**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.0300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3039	0.3039	1.0000e-005	1.0000e-005	0.3063
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3039</b>	<b>0.3039</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3063</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	1.0900e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>1.0452</b>	<b>1.0900e-003</b>	<b>0.0156</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2031**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.0300e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3039	0.3039	1.0000e-005	1.0000e-005	0.3063
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3039</b>	<b>0.3039</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3063</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**





CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 9 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	38.00	Dwelling Unit	7.35	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days  
Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	45090	0
tblAreaCoating	Area_Residential_Interior	135270	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2032	12/30/2031
tblConstructionPhase	PhaseEndDate	5/18/2032	11/12/2031
tblConstructionPhase	PhaseEndDate	1/28/2031	12/31/2030
tblConstructionPhase	PhaseEndDate	3/25/2031	2/5/2031
tblConstructionPhase	PhaseEndDate	6/15/2032	12/5/2031
tblConstructionPhase	PhaseEndDate	2/11/2031	1/13/2031
tblConstructionPhase	PhaseStartDate	6/16/2032	12/8/2031

## CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/26/2031	2/6/2031
tblConstructionPhase	PhaseStartDate	2/12/2031	1/14/2031
tblConstructionPhase	PhaseStartDate	5/19/2032	11/13/2031
tblConstructionPhase	PhaseStartDate	1/29/2031	1/1/2031
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	20.90	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.30	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.38	7.35
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblSolidWaste	SolidWasteGenerationRate	17.48	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	1,560,863.83	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2031	12/31/2030	5	0	
2	Site Preparation	Site Preparation	1/1/2031	1/13/2031	5	9	
3	Grading	Grading	1/14/2031	2/5/2031	5	17	
4	Building Construction	Building Construction	2/6/2031	11/12/2031	5	200	
5	Paving	Paving	11/13/2031	12/5/2031	5	17	
6	Architectural Coating	Architectural Coating	12/8/2031	12/30/2031	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 135,270; Residential Outdoor: 45,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.4367</b>	<b>20.2704</b>	<b>10.1215</b>	<b>0.4367</b>	<b>10.5582</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0429	0.0178	0.3382	1.0800e-003	0.1479	5.0000e-004	0.1484	0.0392	4.6000e-004	0.0397		108.8639	108.8639	2.0600e-003	2.3900e-003	109.6272
<b>Total</b>	<b>0.0429</b>	<b>0.0178</b>	<b>0.3382</b>	<b>1.0800e-003</b>	<b>0.1479</b>	<b>5.0000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>4.6000e-004</b>	<b>0.0397</b>		<b>108.8639</b>	<b>108.8639</b>	<b>2.0600e-003</b>	<b>2.3900e-003</b>	<b>109.6272</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.0621</b>	<b>19.8958</b>	<b>10.1215</b>	<b>0.0621</b>	<b>10.1836</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0429	0.0178	0.3382	1.0800e-003	0.1479	5.0000e-004	0.1484	0.0392	4.6000e-004	0.0397		108.8639	108.8639	2.0600e-003	2.3900e-003	109.6272
<b>Total</b>	<b>0.0429</b>	<b>0.0178</b>	<b>0.3382</b>	<b>1.0800e-003</b>	<b>0.1479</b>	<b>5.0000e-004</b>	<b>0.1484</b>	<b>0.0392</b>	<b>4.6000e-004</b>	<b>0.0397</b>		<b>108.8639</b>	<b>108.8639</b>	<b>2.0600e-003</b>	<b>2.3900e-003</b>	<b>109.6272</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.4879</b>	<b>12.1244</b>	<b>3.9165</b>	<b>0.4879</b>	<b>4.4044</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0477	0.0198	0.3758	1.2000e-003	0.1643	5.5000e-004	0.1649	0.0436	5.1000e-004	0.0441		120.9599	120.9599	2.2900e-003	2.6500e-003	121.8080
<b>Total</b>	<b>0.0477</b>	<b>0.0198</b>	<b>0.3758</b>	<b>1.2000e-003</b>	<b>0.1643</b>	<b>5.5000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.1000e-004</b>	<b>0.0441</b>		<b>120.9599</b>	<b>120.9599</b>	<b>2.2900e-003</b>	<b>2.6500e-003</b>	<b>121.8080</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.1015</b>	<b>11.7380</b>	<b>3.9165</b>	<b>0.1015</b>	<b>4.0180</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0477	0.0198	0.3758	1.2000e-003	0.1643	5.5000e-004	0.1649	0.0436	5.1000e-004	0.0441		120.9599	120.9599	2.2900e-003	2.6500e-003	121.8080
<b>Total</b>	<b>0.0477</b>	<b>0.0198</b>	<b>0.3758</b>	<b>1.2000e-003</b>	<b>0.1643</b>	<b>5.5000e-004</b>	<b>0.1649</b>	<b>0.0436</b>	<b>5.1000e-004</b>	<b>0.0441</b>		<b>120.9599</b>	<b>120.9599</b>	<b>2.2900e-003</b>	<b>2.6500e-003</b>	<b>121.8080</b>



CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1500e-003	0.2934	0.0778	1.1800e-003	0.0405	1.5000e-003	0.0420	0.0117	1.4300e-003	0.0131		124.4096	124.4096	3.7000e-004	0.0181	129.8012
Worker	0.0787	0.0326	0.6201	1.9700e-003	0.2711	9.1000e-004	0.2720	0.0719	8.4000e-004	0.0728		199.5838	199.5838	3.7800e-003	4.3800e-003	200.9832
<b>Total</b>	<b>0.0858</b>	<b>0.3260</b>	<b>0.6979</b>	<b>3.1500e-003</b>	<b>0.3116</b>	<b>2.4100e-003</b>	<b>0.3140</b>	<b>0.0836</b>	<b>2.2700e-003</b>	<b>0.0858</b>		<b>323.9934</b>	<b>323.9934</b>	<b>4.1500e-003</b>	<b>0.0224</b>	<b>330.7844</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1500e-003	0.2934	0.0778	1.1800e-003	0.0405	1.5000e-003	0.0420	0.0117	1.4300e-003	0.0131		124.4096	124.4096	3.7000e-004	0.0181	129.8012
Worker	0.0787	0.0326	0.6201	1.9700e-003	0.2711	9.1000e-004	0.2720	0.0719	8.4000e-004	0.0728		199.5838	199.5838	3.7800e-003	4.3800e-003	200.9832
<b>Total</b>	<b>0.0858</b>	<b>0.3260</b>	<b>0.6979</b>	<b>3.1500e-003</b>	<b>0.3116</b>	<b>2.4100e-003</b>	<b>0.3140</b>	<b>0.0836</b>	<b>2.2700e-003</b>	<b>0.0858</b>		<b>323.9934</b>	<b>323.9934</b>	<b>4.1500e-003</b>	<b>0.0224</b>	<b>330.7844</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0358	0.0148	0.2819	9.0000e-004	0.1232	4.2000e-004	0.1236	0.0327	3.8000e-004	0.0331		90.7199	90.7199	1.7200e-003	1.9900e-003	91.3560
<b>Total</b>	<b>0.0358</b>	<b>0.0148</b>	<b>0.2819</b>	<b>9.0000e-004</b>	<b>0.1232</b>	<b>4.2000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.8000e-004</b>	<b>0.0331</b>		<b>90.7199</b>	<b>90.7199</b>	<b>1.7200e-003</b>	<b>1.9900e-003</b>	<b>91.3560</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0358	0.0148	0.2819	9.0000e-004	0.1232	4.2000e-004	0.1236	0.0327	3.8000e-004	0.0331		90.7199	90.7199	1.7200e-003	1.9900e-003	91.3560
<b>Total</b>	<b>0.0358</b>	<b>0.0148</b>	<b>0.2819</b>	<b>9.0000e-004</b>	<b>0.1232</b>	<b>4.2000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.8000e-004</b>	<b>0.0331</b>		<b>90.7199</b>	<b>90.7199</b>	<b>1.7200e-003</b>	<b>1.9900e-003</b>	<b>91.3560</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2031**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.9175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>5.0482</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0167	6.9200e-003	0.1315	4.2000e-004	0.0575	1.9000e-004	0.0577	0.0153	1.8000e-004	0.0154		42.3360	42.3360	8.0000e-004	9.3000e-004	42.6328
<b>Total</b>	<b>0.0167</b>	<b>6.9200e-003</b>	<b>0.1315</b>	<b>4.2000e-004</b>	<b>0.0575</b>	<b>1.9000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>1.8000e-004</b>	<b>0.0154</b>		<b>42.3360</b>	<b>42.3360</b>	<b>8.0000e-004</b>	<b>9.3000e-004</b>	<b>42.6328</b>

CEHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2031**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.9175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>4.9472</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0167	6.9200e-003	0.1315	4.2000e-004	0.0575	1.9000e-004	0.0577	0.0153	1.8000e-004	0.0154		42.3360	42.3360	8.0000e-004	9.3000e-004	42.6328
<b>Total</b>	<b>0.0167</b>	<b>6.9200e-003</b>	<b>0.1315</b>	<b>4.2000e-004</b>	<b>0.0575</b>	<b>1.9000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>1.8000e-004</b>	<b>0.0154</b>		<b>42.3360</b>	<b>42.3360</b>	<b>8.0000e-004</b>	<b>9.3000e-004</b>	<b>42.6328</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Unmitigated	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247		8.0218	8.0218	7.6400e-003		8.2127
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247		8.0218	8.0218	7.6400e-003		8.2127
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 9 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 10 Mitigated  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	38.00	Dwelling Unit	7.35	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	45090	0
tblAreaCoating	Area_Residential_Interior	135270	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2033	12/29/2032
tblConstructionPhase	PhaseEndDate	5/18/2033	11/11/2032
tblConstructionPhase	PhaseEndDate	1/28/2032	12/31/2031
tblConstructionPhase	PhaseEndDate	3/24/2032	2/5/2032
tblConstructionPhase	PhaseEndDate	6/15/2033	12/6/2032
tblConstructionPhase	PhaseEndDate	2/11/2032	1/13/2032
tblConstructionPhase	PhaseStartDate	6/16/2033	12/7/2032



## CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/25/2032	2/6/2032
tblConstructionPhase	PhaseStartDate	2/12/2032	1/14/2032
tblConstructionPhase	PhaseStartDate	5/19/2033	11/12/2032
tblConstructionPhase	PhaseStartDate	1/29/2032	1/1/2032
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	20.90	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.30	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.38	7.35
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblSolidWaste	SolidWasteGenerationRate	17.48	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	1,560,863.83	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2032	12/31/2031	5	0	
2	Site Preparation	Site Preparation	1/1/2032	1/13/2032	5	9	
3	Grading	Grading	1/14/2032	2/5/2032	5	17	

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2032	11/11/2032	5	200
5	Paving	Paving	11/12/2032	12/6/2032	5	17
6	Architectural Coating	Architectural Coating	12/7/2032	12/29/2032	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 135,270; Residential Outdoor: 45,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

**3.3 Site Preparation - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.9600e-003</b>	<b>0.0912</b>	<b>0.0456</b>	<b>1.9600e-003</b>	<b>0.0475</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.3500e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4057	0.4057	1.0000e-005	1.0000e-005	0.4090
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4057</b>	<b>0.4057</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4090</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>2.8000e-004</b>	<b>0.0895</b>	<b>0.0456</b>	<b>2.8000e-004</b>	<b>0.0458</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>



CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.3500e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4057	0.4057	1.0000e-005	1.0000e-005	0.4090
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.4057</b>	<b>0.4057</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4090</b>

**3.4 Grading - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1177	0.1957	5.9000e-004		4.1500e-003	4.1500e-003		4.1500e-003	4.1500e-003	0.0000	55.6208	55.6208	2.2500e-003	0.0000	55.6770
<b>Total</b>	<b>0.0279</b>	<b>0.1177</b>	<b>0.1957</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>4.1500e-003</b>	<b>0.1031</b>	<b>0.0333</b>	<b>4.1500e-003</b>	<b>0.0374</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6770</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	1.8000e-004	2.8400e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8514	0.8514	2.0000e-005	2.0000e-005	0.8583
<b>Total</b>	<b>3.4000e-004</b>	<b>1.8000e-004</b>	<b>2.8400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8514</b>	<b>0.8514</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8583</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0281	0.2805	5.9000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	55.6207	55.6207	2.2500e-003	0.0000	55.6769
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0281</b>	<b>0.2805</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>8.6000e-004</b>	<b>0.0998</b>	<b>0.0333</b>	<b>8.6000e-004</b>	<b>0.0342</b>	<b>0.0000</b>	<b>55.6207</b>	<b>55.6207</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>55.6769</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	1.8000e-004	2.8400e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8514	0.8514	2.0000e-005	2.0000e-005	0.8583
<b>Total</b>	<b>3.4000e-004</b>	<b>1.8000e-004</b>	<b>2.8400e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8514</b>	<b>0.8514</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8583</b>

**3.5 Building Construction - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8610	262.8610	0.0106	0.0000	263.1247
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1247</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0298	7.9400e-003	1.2000e-004	3.9100e-003	1.5000e-004	4.0600e-003	1.1300e-003	1.4000e-004	1.2700e-003	0.0000	11.1317	11.1317	3.0000e-005	1.6100e-003	11.6133
Worker	6.5900e-003	3.4600e-003	0.0552	1.8000e-004	0.0260	9.0000e-005	0.0261	6.9100e-003	8.0000e-005	6.9900e-003	0.0000	16.5275	16.5275	3.5000e-004	4.2000e-004	16.6610
<b>Total</b>	<b>7.2800e-003</b>	<b>0.0332</b>	<b>0.0631</b>	<b>3.0000e-004</b>	<b>0.0299</b>	<b>2.4000e-004</b>	<b>0.0301</b>	<b>8.0400e-003</b>	<b>2.2000e-004</b>	<b>8.2600e-003</b>	<b>0.0000</b>	<b>27.6592</b>	<b>27.6592</b>	<b>3.8000e-004</b>	<b>2.0300e-003</b>	<b>28.2743</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0328	0.2235	1.7460	3.1000e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	262.8607	262.8607	0.0106	0.0000	263.1243
<b>Total</b>	<b>0.0328</b>	<b>0.2235</b>	<b>1.7460</b>	<b>3.1000e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1243</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2032**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0298	7.9400e-003	1.2000e-004	3.9100e-003	1.5000e-004	4.0600e-003	1.1300e-003	1.4000e-004	1.2700e-003	0.0000	11.1317	11.1317	3.0000e-005	1.6100e-003	11.6133
Worker	6.5900e-003	3.4600e-003	0.0552	1.8000e-004	0.0260	9.0000e-005	0.0261	6.9100e-003	8.0000e-005	6.9900e-003	0.0000	16.5275	16.5275	3.5000e-004	4.2000e-004	16.6610
<b>Total</b>	<b>7.2800e-003</b>	<b>0.0332</b>	<b>0.0631</b>	<b>3.0000e-004</b>	<b>0.0299</b>	<b>2.4000e-004</b>	<b>0.0301</b>	<b>8.0400e-003</b>	<b>2.2000e-004</b>	<b>8.2600e-003</b>	<b>0.0000</b>	<b>27.6592</b>	<b>27.6592</b>	<b>3.8000e-004</b>	<b>2.0300e-003</b>	<b>28.2743</b>

**3.6 Paving - 2032**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.0605	0.1347	2.4000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0118</b>	<b>0.0605</b>	<b>0.1347</b>	<b>2.4000e-004</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>		<b>2.8100e-003</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.3000e-004	2.1300e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6386	0.6386	1.0000e-005	2.0000e-005	0.6437
<b>Total</b>	<b>2.5000e-004</b>	<b>1.3000e-004</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6386</b>	<b>0.6386</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6437</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3800e-003	0.0103	0.1470	2.4000e-004		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	20.4846	20.4846	9.6000e-004	0.0000	20.5086
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.3800e-003</b>	<b>0.0103</b>	<b>0.1470</b>	<b>2.4000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>20.5086</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.3000e-004	2.1300e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6386	0.6386	1.0000e-005	2.0000e-005	0.6437
<b>Total</b>	<b>2.5000e-004</b>	<b>1.3000e-004</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6386</b>	<b>0.6386</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6437</b>

**3.7 Architectural Coating - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>0.0429</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2032**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	6.0000e-005	9.9000e-004	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.2980	0.2980	1.0000e-005	1.0000e-005	0.3004
<b>Total</b>	<b>1.2000e-004</b>	<b>6.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.2980</b>	<b>0.2980</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3004</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	1.0900e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>0.0421</b>	<b>1.0900e-003</b>	<b>0.0156</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>



CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2032**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	6.0000e-005	9.9000e-004	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.2980	0.2980	1.0000e-005	1.0000e-005	0.3004
<b>Total</b>	<b>1.2000e-004</b>	<b>6.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.2980</b>	<b>0.2980</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3004</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**





CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 10 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	16.00	Dwelling Unit	4.50	28,800.00	46
Condo/Townhouse	38.00	Dwelling Unit	7.35	38,000.00	109

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	45090	0
tblAreaCoating	Area_Residential_Interior	135270	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2033	12/29/2032
tblConstructionPhase	PhaseEndDate	5/18/2033	11/11/2032
tblConstructionPhase	PhaseEndDate	1/28/2032	12/31/2031
tblConstructionPhase	PhaseEndDate	3/24/2032	2/5/2032
tblConstructionPhase	PhaseEndDate	6/15/2033	12/6/2032
tblConstructionPhase	PhaseEndDate	2/11/2032	1/13/2032
tblConstructionPhase	PhaseStartDate	6/16/2033	12/7/2032

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseStartDate	3/25/2032	2/6/2032
tblConstructionPhase	PhaseStartDate	2/12/2032	1/14/2032
tblConstructionPhase	PhaseStartDate	5/19/2033	11/12/2032
tblConstructionPhase	PhaseStartDate	1/29/2032	1/1/2032
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	204.10	0.00
tblEnergyUse	T24E	191.61	0.00
tblEnergyUse	T24NG	3,351.17	0.00
tblEnergyUse	T24NG	9,528.86	0.00
tblFireplaces	NumberGas	20.90	0.00
tblFireplaces	NumberGas	8.80	0.00
tblFireplaces	NumberWood	13.30	0.00
tblFireplaces	NumberWood	5.60	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	5.19	4.50
tblLandUse	LotAcreage	2.38	7.35
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00



CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblSolidWaste	SolidWasteGenerationRate	17.48	0.00
tblSolidWaste	SolidWasteGenerationRate	11.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	ST_TR	9.54	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	SU_TR	8.55	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	9.44	0.00
tblWater	IndoorWaterUseRate	2,475,852.97	0.00
tblWater	IndoorWaterUseRate	1,042,464.41	0.00
tblWater	OutdoorWaterUseRate	1,560,863.83	0.00
tblWater	OutdoorWaterUseRate	657,205.82	0.00
tblWoodstoves	NumberCatalytic	1.90	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	1.90	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2032	12/31/2031	5	0	
2	Site Preparation	Site Preparation	1/1/2032	1/13/2032	5	9	
3	Grading	Grading	1/14/2032	2/5/2032	5	17	
4	Building Construction	Building Construction	2/6/2032	11/11/2032	5	200	
5	Paving	Paving	11/12/2032	12/6/2032	5	17	
6	Architectural Coating	Architectural Coating	12/7/2032	12/29/2032	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 135,270; Residential Outdoor: 45,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	33.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.4367</b>	<b>20.2704</b>	<b>10.1215</b>	<b>0.4367</b>	<b>10.5582</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0401	0.0166	0.3255	1.0600e-003	0.1479	4.7000e-004	0.1483	0.0392	4.3000e-004	0.0397		106.7733	106.7733	1.9100e-003	2.3100e-003	107.5109
<b>Total</b>	<b>0.0401</b>	<b>0.0166</b>	<b>0.3255</b>	<b>1.0600e-003</b>	<b>0.1479</b>	<b>4.7000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>4.3000e-004</b>	<b>0.0397</b>		<b>106.7733</b>	<b>106.7733</b>	<b>1.9100e-003</b>	<b>2.3100e-003</b>	<b>107.5109</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.0621</b>	<b>19.8958</b>	<b>10.1215</b>	<b>0.0621</b>	<b>10.1836</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0401	0.0166	0.3255	1.0600e-003	0.1479	4.7000e-004	0.1483	0.0392	4.3000e-004	0.0397		106.7733	106.7733	1.9100e-003	2.3100e-003	107.5109
<b>Total</b>	<b>0.0401</b>	<b>0.0166</b>	<b>0.3255</b>	<b>1.0600e-003</b>	<b>0.1479</b>	<b>4.7000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>4.3000e-004</b>	<b>0.0397</b>		<b>106.7733</b>	<b>106.7733</b>	<b>1.9100e-003</b>	<b>2.3100e-003</b>	<b>107.5109</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>3.2807</b>	<b>13.8462</b>	<b>23.0239</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.4879</b>	<b>12.1244</b>	<b>3.9165</b>	<b>0.4879</b>	<b>4.4044</b>		<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0185	0.3617	1.1700e-003	0.1643	5.2000e-004	0.1648	0.0436	4.8000e-004	0.0441		118.6370	118.6370	2.1200e-003	2.5700e-003	119.4565
<b>Total</b>	<b>0.0446</b>	<b>0.0185</b>	<b>0.3617</b>	<b>1.1700e-003</b>	<b>0.1643</b>	<b>5.2000e-004</b>	<b>0.1648</b>	<b>0.0436</b>	<b>4.8000e-004</b>	<b>0.0441</b>		<b>118.6370</b>	<b>118.6370</b>	<b>2.1200e-003</b>	<b>2.5700e-003</b>	<b>119.4565</b>



CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.1015</b>	<b>11.7380</b>	<b>3.9165</b>	<b>0.1015</b>	<b>4.0180</b>	<b>0.0000</b>	<b>7,213.1086</b>	<b>7,213.1086</b>	<b>0.2915</b>		<b>7,220.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0185	0.3617	1.1700e-003	0.1643	5.2000e-004	0.1648	0.0436	4.8000e-004	0.0441		118.6370	118.6370	2.1200e-003	2.5700e-003	119.4565
<b>Total</b>	<b>0.0446</b>	<b>0.0185</b>	<b>0.3617</b>	<b>1.1700e-003</b>	<b>0.1643</b>	<b>5.2000e-004</b>	<b>0.1648</b>	<b>0.0436</b>	<b>4.8000e-004</b>	<b>0.0441</b>		<b>118.6370</b>	<b>118.6370</b>	<b>2.1200e-003</b>	<b>2.5700e-003</b>	<b>119.4565</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0700e-003	0.2872	0.0778	1.1600e-003	0.0405	1.4500e-003	0.0420	0.0117	1.3900e-003	0.0130		122.6374	122.6374	3.7000e-004	0.0178	127.9390
Worker	0.0736	0.0305	0.5968	1.9400e-003	0.2711	8.5000e-004	0.2719	0.0719	7.9000e-004	0.0727		195.7511	195.7511	3.5100e-003	4.2400e-003	197.1033
<b>Total</b>	<b>0.0807</b>	<b>0.3177</b>	<b>0.6746</b>	<b>3.1000e-003</b>	<b>0.3116</b>	<b>2.3000e-003</b>	<b>0.3139</b>	<b>0.0836</b>	<b>2.1800e-003</b>	<b>0.0857</b>		<b>318.3885</b>	<b>318.3885</b>	<b>3.8800e-003</b>	<b>0.0220</b>	<b>325.0423</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0700e-003	0.2872	0.0778	1.1600e-003	0.0405	1.4500e-003	0.0420	0.0117	1.3900e-003	0.0130		122.6374	122.6374	3.7000e-004	0.0178	127.9390
Worker	0.0736	0.0305	0.5968	1.9400e-003	0.2711	8.5000e-004	0.2719	0.0719	7.9000e-004	0.0727		195.7511	195.7511	3.5100e-003	4.2400e-003	197.1033
<b>Total</b>	<b>0.0807</b>	<b>0.3177</b>	<b>0.6746</b>	<b>3.1000e-003</b>	<b>0.3116</b>	<b>2.3000e-003</b>	<b>0.3139</b>	<b>0.0836</b>	<b>2.1800e-003</b>	<b>0.0857</b>		<b>318.3885</b>	<b>318.3885</b>	<b>3.8800e-003</b>	<b>0.0220</b>	<b>325.0423</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3845</b>	<b>7.1202</b>	<b>15.8495</b>	<b>0.0281</b>		<b>0.3306</b>	<b>0.3306</b>		<b>0.3306</b>	<b>0.3306</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0335	0.0139	0.2713	8.8000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		88.9778	88.9778	1.5900e-003	1.9300e-003	89.5924
<b>Total</b>	<b>0.0335</b>	<b>0.0139</b>	<b>0.2713</b>	<b>8.8000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>88.9778</b>	<b>88.9778</b>	<b>1.5900e-003</b>	<b>1.9300e-003</b>	<b>89.5924</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1245</b>		<b>2,659.6302</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0335	0.0139	0.2713	8.8000e-004	0.1232	3.9000e-004	0.1236	0.0327	3.6000e-004	0.0330		88.9778	88.9778	1.5900e-003	1.9300e-003	89.5924
<b>Total</b>	<b>0.0335</b>	<b>0.0139</b>	<b>0.2713</b>	<b>8.8000e-004</b>	<b>0.1232</b>	<b>3.9000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.6000e-004</b>	<b>0.0330</b>		<b>88.9778</b>	<b>88.9778</b>	<b>1.5900e-003</b>	<b>1.9300e-003</b>	<b>89.5924</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2032**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.9175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>5.0482</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0156	6.4700e-003	0.1266	4.1000e-004	0.0575	1.8000e-004	0.0577	0.0153	1.7000e-004	0.0154		41.5230	41.5230	7.4000e-004	9.0000e-004	41.8098
<b>Total</b>	<b>0.0156</b>	<b>6.4700e-003</b>	<b>0.1266</b>	<b>4.1000e-004</b>	<b>0.0575</b>	<b>1.8000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>1.7000e-004</b>	<b>0.0154</b>		<b>41.5230</b>	<b>41.5230</b>	<b>7.4000e-004</b>	<b>9.0000e-004</b>	<b>41.8098</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2032**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.9175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>4.9472</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0156	6.4700e-003	0.1266	4.1000e-004	0.0575	1.8000e-004	0.0577	0.0153	1.7000e-004	0.0154		41.5230	41.5230	7.4000e-004	9.0000e-004	41.8098
<b>Total</b>	<b>0.0156</b>	<b>6.4700e-003</b>	<b>0.1266</b>	<b>4.1000e-004</b>	<b>0.0575</b>	<b>1.8000e-004</b>	<b>0.0577</b>	<b>0.0153</b>	<b>1.7000e-004</b>	<b>0.0154</b>		<b>41.5230</b>	<b>41.5230</b>	<b>7.4000e-004</b>	<b>9.0000e-004</b>	<b>41.8098</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**



CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127
Unmitigated	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247	0.0000	8.0218	8.0218	7.6400e-003	0.0000	8.2127

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247		8.0218	8.0218	7.6400e-003		8.2127
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1327	0.0512	4.4394	2.4000e-004		0.0247	0.0247		0.0247	0.0247		8.0218	8.0218	7.6400e-003		8.2127
<b>Total</b>	<b>0.1327</b>	<b>0.0512</b>	<b>4.4394</b>	<b>2.4000e-004</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>	<b>0.0000</b>	<b>8.0218</b>	<b>8.0218</b>	<b>7.6400e-003</b>	<b>0.0000</b>	<b>8.2127</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 10 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 12 Mitigated - EI Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 12 Mitigated**

**EI Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	51300	0
tblAreaCoating	Area_Residential_Interior	153900	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00



CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/22/2035	12/29/2034
tblConstructionPhase	PhaseEndDate	1/3/2035	11/13/2034
tblConstructionPhase	PhaseEndDate	1/27/2034	1/1/2034
tblConstructionPhase	PhaseEndDate	2/15/2034	2/6/2034

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	1/29/2035	12/6/2034
tblConstructionPhase	PhaseEndDate	2/3/2034	1/12/2034
tblConstructionPhase	PhaseStartDate	1/30/2035	12/7/2034
tblConstructionPhase	PhaseStartDate	2/16/2034	2/7/2034
tblConstructionPhase	PhaseStartDate	2/4/2034	1/13/2034
tblConstructionPhase	PhaseStartDate	1/4/2035	11/14/2034
tblConstructionPhase	PhaseStartDate	1/28/2034	1/2/2034
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberWood	26.60	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2034	0.2256	1.0250	2.0425	4.3000e-003	0.1929	0.0214	0.2144	0.0877	0.0214	0.1091	0.0000	369.5643	369.5643	0.0140	2.8100e-003	370.7519
<b>Maximum</b>	<b>0.2256</b>	<b>1.0250</b>	<b>2.0425</b>	<b>4.3000e-003</b>	<b>0.1929</b>	<b>0.0214</b>	<b>0.2144</b>	<b>0.0877</b>	<b>0.0214</b>	<b>0.1091</b>	<b>0.0000</b>	<b>369.5643</b>	<b>369.5643</b>	<b>0.0140</b>	<b>2.8100e-003</b>	<b>370.7519</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2034	0.0991	0.2990	2.2256	4.3000e-003	0.1929	5.3700e-003	0.1983	0.0877	5.3500e-003	0.0931	0.0000	369.5639	369.5639	0.0140	2.8100e-003	370.7515
<b>Maximum</b>	<b>0.0991</b>	<b>0.2990</b>	<b>2.2256</b>	<b>4.3000e-003</b>	<b>0.1929</b>	<b>5.3700e-003</b>	<b>0.1983</b>	<b>0.0877</b>	<b>5.3500e-003</b>	<b>0.0931</b>	<b>0.0000</b>	<b>369.5639</b>	<b>369.5639</b>	<b>0.0140</b>	<b>2.8100e-003</b>	<b>370.7515</b>



CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2034	1/1/2034	5	0	
2	Site Preparation	Site Preparation	1/2/2034	1/12/2034	5	9	
3	Grading	Grading	1/13/2034	2/6/2034	5	17	

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/7/2034	11/13/2034	5	200
5	Paving	Paving	11/14/2034	12/6/2034	5	17
6	Architectural Coating	Architectural Coating	12/7/2034	12/29/2034	5	17

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37







CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.3 Site Preparation - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0110	0.0615	0.0733	2.1000e-004		1.9600e-003	1.9600e-003		1.9600e-003	1.9600e-003	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>0.0110</b>	<b>0.0615</b>	<b>0.0733</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.9600e-003</b>	<b>0.0872</b>	<b>0.0451</b>	<b>1.9600e-003</b>	<b>0.0471</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	8.0000e-005	1.2700e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3924	0.3924	1.0000e-005	1.0000e-005	0.3955
<b>Total</b>	<b>1.4000e-004</b>	<b>8.0000e-005</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3924</b>	<b>0.3924</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3955</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.0021	18.0021	8.9000e-004	0.0000	18.0243
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>2.8000e-004</b>	<b>0.0856</b>	<b>0.0451</b>	<b>2.8000e-004</b>	<b>0.0454</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>18.0243</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	8.0000e-005	1.2700e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3924	0.3924	1.0000e-005	1.0000e-005	0.3955
<b>Total</b>	<b>1.4000e-004</b>	<b>8.0000e-005</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3924</b>	<b>0.3924</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3955</b>

**3.4 Grading - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.0659	0.1228	3.1000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	26.5239	26.5239	1.1100e-003	0.0000	26.5516
<b>Total</b>	<b>0.0138</b>	<b>0.0659</b>	<b>0.1228</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.9900e-003</b>	<b>0.0574</b>	<b>0.0286</b>	<b>1.9900e-003</b>	<b>0.0306</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>26.5516</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.2000e-004	2.0000e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6176	0.6176	1.0000e-005	2.0000e-005	0.6225
<b>Total</b>	<b>2.2000e-004</b>	<b>1.2000e-004</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6176</b>	<b>0.6176</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6225</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0134	0.1509	3.1000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	26.5239	26.5239	1.1100e-003	0.0000	26.5516
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0134</b>	<b>0.1509</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>4.1000e-004</b>	<b>0.0558</b>	<b>0.0286</b>	<b>4.1000e-004</b>	<b>0.0290</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>26.5516</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.2000e-004	2.0000e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6176	0.6176	1.0000e-005	2.0000e-005	0.6225
<b>Total</b>	<b>2.2000e-004</b>	<b>1.2000e-004</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6176</b>	<b>0.6176</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6225</b>

**3.5 Building Construction - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1309	0.7935	1.6157	3.1000e-003		0.0148	0.0148		0.0148	0.0148	0.0000	262.8610	262.8610	0.0106	0.0000	263.1247
<b>Total</b>	<b>0.1309</b>	<b>0.7935</b>	<b>1.6157</b>	<b>3.1000e-003</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1247</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0383	0.0106	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.8000e-004	1.6800e-003	0.0000	14.4679	14.4679	4.0000e-005	2.0900e-003	15.0912
Worker	9.7000e-003	5.1500e-003	0.0861	2.9000e-004	0.0433	1.3000e-004	0.0434	0.0115	1.2000e-004	0.0116	0.0000	26.6412	26.6412	5.1000e-004	6.6000e-004	26.8517
<b>Total</b>	<b>0.0106</b>	<b>0.0434</b>	<b>0.0967</b>	<b>4.4000e-004</b>	<b>0.0485</b>	<b>3.1000e-004</b>	<b>0.0488</b>	<b>0.0130</b>	<b>3.0000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>41.1091</b>	<b>41.1091</b>	<b>5.5000e-004</b>	<b>2.7500e-003</b>	<b>41.9429</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0328	0.2235	1.7460	3.1000e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	262.8607	262.8607	0.0106	0.0000	263.1243
<b>Total</b>	<b>0.0328</b>	<b>0.2235</b>	<b>1.7460</b>	<b>3.1000e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>0.0106</b>	<b>0.0000</b>	<b>263.1243</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0383	0.0106	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.8000e-004	1.6800e-003	0.0000	14.4679	14.4679	4.0000e-005	2.0900e-003	15.0912
Worker	9.7000e-003	5.1500e-003	0.0861	2.9000e-004	0.0433	1.3000e-004	0.0434	0.0115	1.2000e-004	0.0116	0.0000	26.6412	26.6412	5.1000e-004	6.6000e-004	26.8517
<b>Total</b>	<b>0.0106</b>	<b>0.0434</b>	<b>0.0967</b>	<b>4.4000e-004</b>	<b>0.0485</b>	<b>3.1000e-004</b>	<b>0.0488</b>	<b>0.0130</b>	<b>3.0000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>41.1091</b>	<b>41.1091</b>	<b>5.5000e-004</b>	<b>2.7500e-003</b>	<b>41.9429</b>

**3.6 Paving - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8100e-003	0.0530	0.1113	2.0000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	16.6117	16.6117	8.0000e-004	0.0000	16.6316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.8100e-003</b>	<b>0.0530</b>	<b>0.1113</b>	<b>2.0000e-004</b>		<b>2.1500e-003</b>	<b>2.1500e-003</b>		<b>2.1500e-003</b>	<b>2.1500e-003</b>	<b>0.0000</b>	<b>16.6117</b>	<b>16.6117</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>16.6316</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.6000e-004	2.6600e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8235	0.8235	2.0000e-005	2.0000e-005	0.8300
<b>Total</b>	<b>3.0000e-004</b>	<b>1.6000e-004</b>	<b>2.6600e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8235</b>	<b>0.8235</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8300</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8700e-003	8.0800e-003	0.1150	2.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	16.6116	16.6116	8.0000e-004	0.0000	16.6316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.8700e-003</b>	<b>8.0800e-003</b>	<b>0.1150</b>	<b>2.0000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>16.6116</b>	<b>16.6116</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>16.6316</b>



CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2034**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.6000e-004	2.6600e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8235	0.8235	2.0000e-005	2.0000e-005	0.8300
<b>Total</b>	<b>3.0000e-004</b>	<b>1.6000e-004</b>	<b>2.6600e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8235</b>	<b>0.8235</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8300</b>

**3.7 Architectural Coating - 2034**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	7.2800e-003	0.0153	3.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>0.0487</b>	<b>7.2800e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2034**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	9.0000e-005	1.4600e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4529	0.4529	1.0000e-005	1.0000e-005	0.4565
<b>Total</b>	<b>1.6000e-004</b>	<b>9.0000e-005</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4529</b>	<b>0.4529</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4565</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	1.0900e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	9.0000e-005	0.0000	2.1725
<b>Total</b>	<b>0.0478</b>	<b>1.0900e-003</b>	<b>0.0156</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1725</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2034**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	9.0000e-005	1.4600e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4529	0.4529	1.0000e-005	1.0000e-005	0.4565
<b>Total</b>	<b>1.6000e-004</b>	<b>9.0000e-005</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4529</b>	<b>0.4529</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4565</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



CEdHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**6.0 Area Detail**

**6.1 Mitigation Measures Area**





CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEdHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

Total		0.0000	0.0000	0.0000	0.0000
Apartment's Low Rise	0	0.0000	0.0000	0.0000	0.0000
Land Use	tons	MT/yr			
Waste Disposed	Total CO2	CH4	N2O	CO2e	

Mitigated

Total		0.0000	0.0000	0.0000	0.0000
Apartment's Low Rise	0	0.0000	0.0000	0.0000	0.0000
Land Use	tons	MT/yr			
Waste Disposed	Total CO2	CH4	N2O	CO2e	

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 12 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	51300	0
tblAreaCoating	Area_Residential_Interior	153900	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/22/2035	12/29/2034
tblConstructionPhase	PhaseEndDate	1/3/2035	11/13/2034
tblConstructionPhase	PhaseEndDate	1/27/2034	1/1/2034
tblConstructionPhase	PhaseEndDate	2/15/2034	2/6/2034



CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	1/29/2035	12/6/2034
tblConstructionPhase	PhaseEndDate	2/3/2034	1/12/2034
tblConstructionPhase	PhaseStartDate	1/30/2035	12/7/2034
tblConstructionPhase	PhaseStartDate	2/16/2034	2/7/2034
tblConstructionPhase	PhaseStartDate	2/4/2034	1/13/2034
tblConstructionPhase	PhaseStartDate	1/4/2035	11/14/2034
tblConstructionPhase	PhaseStartDate	1/28/2034	1/2/2034
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberWood	26.60	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2034	5.7471	13.6828	17.1928	0.0476	19.0979	0.4371	19.5350	10.0653	0.4370	10.5024	0.0000	4,513.0367	4,513.0367	0.2193	0.0297	4,519.1744
<b>Maximum</b>	<b>5.7471</b>	<b>13.6828</b>	<b>17.1928</b>	<b>0.0476</b>	<b>19.0979</b>	<b>0.4371</b>	<b>19.5350</b>	<b>10.0653</b>	<b>0.4370</b>	<b>10.5024</b>	<b>0.0000</b>	<b>4,513.0367</b>	<b>4,513.0367</b>	<b>0.2193</b>	<b>0.0297</b>	<b>4,519.1744</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2034	5.6461	2.6495	21.1739	0.0476	19.0979	0.0625	19.1604	10.0653	0.0625	10.1278	0.0000	4,513.0367	4,513.0367	0.2193	0.0297	4,519.1744
<b>Maximum</b>	<b>5.6461</b>	<b>2.6495</b>	<b>21.1739</b>	<b>0.0476</b>	<b>19.0979</b>	<b>0.0625</b>	<b>19.1604</b>	<b>10.0653</b>	<b>0.0625</b>	<b>10.1278</b>	<b>0.0000</b>	<b>4,513.0367</b>	<b>4,513.0367</b>	<b>0.2193</b>	<b>0.0297</b>	<b>4,519.1744</b>



CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2034	1/1/2034	5	0	
2	Site Preparation	Site Preparation	1/2/2034	1/12/2034	5	9	
3	Grading	Grading	1/13/2034	2/6/2034	5	17	
4	Building Construction	Building Construction	2/7/2034	11/13/2034	5	200	
5	Paving	Paving	11/14/2034	12/6/2034	5	17	
6	Architectural Coating	Architectural Coating	12/7/2034	12/29/2034	5	17	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment







CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>2.4399</b>	<b>13.6680</b>	<b>16.2918</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.4367</b>	<b>19.3867</b>	<b>10.0261</b>	<b>0.4367</b>	<b>10.4628</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0354	0.0149	0.3050	1.0200e-003	0.1479	4.1000e-004	0.1483	0.0392	3.8000e-004	0.0396		103.2830	103.2830	1.6600e-003	2.2000e-003	103.9808
<b>Total</b>	<b>0.0354</b>	<b>0.0149</b>	<b>0.3050</b>	<b>1.0200e-003</b>	<b>0.1479</b>	<b>4.1000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.8000e-004</b>	<b>0.0396</b>		<b>103.2830</b>	<b>103.2830</b>	<b>1.6600e-003</b>	<b>2.2000e-003</b>	<b>103.9808</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.0621</b>	<b>19.0121</b>	<b>10.0261</b>	<b>0.0621</b>	<b>10.0882</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.2176</b>		<b>4,415.1936</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0354	0.0149	0.3050	1.0200e-003	0.1479	4.1000e-004	0.1483	0.0392	3.8000e-004	0.0396		103.2830	103.2830	1.6600e-003	2.2000e-003	103.9808
<b>Total</b>	<b>0.0354</b>	<b>0.0149</b>	<b>0.3050</b>	<b>1.0200e-003</b>	<b>0.1479</b>	<b>4.1000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.8000e-004</b>	<b>0.0396</b>		<b>103.2830</b>	<b>103.2830</b>	<b>1.6600e-003</b>	<b>2.2000e-003</b>	<b>103.9808</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.6179	7.7501	14.4518	0.0363		0.2340	0.2340		0.2340	0.2340		3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>1.6179</b>	<b>7.7501</b>	<b>14.4518</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.2340</b>	<b>6.7552</b>	<b>3.3641</b>	<b>0.2340</b>	<b>3.5981</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0124	0.2541	8.5000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		86.0692	86.0692	1.3900e-003	1.8400e-003	86.6507
<b>Total</b>	<b>0.0295</b>	<b>0.0124</b>	<b>0.2541</b>	<b>8.5000e-004</b>	<b>0.1232</b>	<b>3.4000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.1000e-004</b>	<b>0.0330</b>		<b>86.0692</b>	<b>86.0692</b>	<b>1.3900e-003</b>	<b>1.8400e-003</b>	<b>86.6507</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0363		0.0484	0.0484		0.0484	0.0484	0.0000	3,439.720 1	3,439.720 1	0.1437		3,443.311 7
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.0484</b>	<b>6.5696</b>	<b>3.3641</b>	<b>0.0484</b>	<b>3.4125</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1437</b>		<b>3,443.311 7</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0295	0.0124	0.2541	8.5000e-004	0.1232	3.4000e-004	0.1236	0.0327	3.1000e-004	0.0330		86.0692	86.0692	1.3900e-003	1.8400e-003	86.6507
<b>Total</b>	<b>0.0295</b>	<b>0.0124</b>	<b>0.2541</b>	<b>8.5000e-004</b>	<b>0.1232</b>	<b>3.4000e-004</b>	<b>0.1236</b>	<b>0.0327</b>	<b>3.1000e-004</b>	<b>0.0330</b>		<b>86.0692</b>	<b>86.0692</b>	<b>1.3900e-003</b>	<b>1.8400e-003</b>	<b>86.6507</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3100e-003	0.3694	0.1040	1.5100e-003	0.0540	1.8400e-003	0.0559	0.0155	1.7600e-003	0.0173		159.3832	159.3832	4.9000e-004	0.0230	166.2444
Worker	0.1082	0.0454	0.9318	3.1200e-003	0.4518	1.2500e-003	0.4531	0.1198	1.1500e-003	0.1210		315.5870	315.5870	5.0800e-003	6.7300e-003	317.7192
<b>Total</b>	<b>0.1175</b>	<b>0.4148</b>	<b>1.0358</b>	<b>4.6300e-003</b>	<b>0.5058</b>	<b>3.0900e-003</b>	<b>0.5089</b>	<b>0.1354</b>	<b>2.9100e-003</b>	<b>0.1383</b>		<b>474.9701</b>	<b>474.9701</b>	<b>5.5700e-003</b>	<b>0.0297</b>	<b>483.9636</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3100e-003	0.3694	0.1040	1.5100e-003	0.0540	1.8400e-003	0.0559	0.0155	1.7600e-003	0.0173		159.3832	159.3832	4.9000e-004	0.0230	166.2444
Worker	0.1082	0.0454	0.9318	3.1200e-003	0.4518	1.2500e-003	0.4531	0.1198	1.1500e-003	0.1210		315.5870	315.5870	5.0800e-003	6.7300e-003	317.7192
<b>Total</b>	<b>0.1175</b>	<b>0.4148</b>	<b>1.0358</b>	<b>4.6300e-003</b>	<b>0.5058</b>	<b>3.0900e-003</b>	<b>0.5089</b>	<b>0.1354</b>	<b>2.9100e-003</b>	<b>0.1383</b>		<b>474.9701</b>	<b>474.9701</b>	<b>5.5700e-003</b>	<b>0.0297</b>	<b>483.9636</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1543	6.2343	13.0935	0.0230		0.2528	0.2528		0.2528	0.2528		2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1543</b>	<b>6.2343</b>	<b>13.0935</b>	<b>0.0230</b>		<b>0.2528</b>	<b>0.2528</b>		<b>0.2528</b>	<b>0.2528</b>		<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.1035</b>		<b>2,156.8468</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0393	0.0165	0.3388	1.1400e-003	0.1643	4.6000e-004	0.1648	0.0436	4.2000e-004	0.0440		114.7589	114.7589	1.8500e-003	2.4500e-003	115.5343
<b>Total</b>	<b>0.0393</b>	<b>0.0165</b>	<b>0.3388</b>	<b>1.1400e-003</b>	<b>0.1643</b>	<b>4.6000e-004</b>	<b>0.1648</b>	<b>0.0436</b>	<b>4.2000e-004</b>	<b>0.0440</b>		<b>114.7589</b>	<b>114.7589</b>	<b>1.8500e-003</b>	<b>2.4500e-003</b>	<b>115.5343</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0230		0.0293	0.0293		0.0293	0.0293	0.0000	2,154.2603	2,154.2603	0.1035		2,156.8468
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2194</b>	<b>0.9509</b>	<b>13.5323</b>	<b>0.0230</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.1035</b>		<b>2,156.8468</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0393	0.0165	0.3388	1.1400e-003	0.1643	4.6000e-004	0.1648	0.0436	4.2000e-004	0.0440		114.7589	114.7589	1.8500e-003	2.4500e-003	115.5343
<b>Total</b>	<b>0.0393</b>	<b>0.0165</b>	<b>0.3388</b>	<b>1.1400e-003</b>	<b>0.1643</b>	<b>4.6000e-004</b>	<b>0.1648</b>	<b>0.0436</b>	<b>4.2000e-004</b>	<b>0.0440</b>		<b>114.7589</b>	<b>114.7589</b>	<b>1.8500e-003</b>	<b>2.4500e-003</b>	<b>115.5343</b>



CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2034**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.5947					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>5.7255</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	9.0900e-003	0.1864	6.2000e-004	0.0904	2.5000e-004	0.0906	0.0240	2.3000e-004	0.0242		63.1174	63.1174	1.0200e-003	1.3500e-003	63.5438
<b>Total</b>	<b>0.0216</b>	<b>9.0900e-003</b>	<b>0.1864</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.5000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.3000e-004</b>	<b>0.0242</b>		<b>63.1174</b>	<b>63.1174</b>	<b>1.0200e-003</b>	<b>1.3500e-003</b>	<b>63.5438</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2034**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.5947					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>5.6244</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	9.0900e-003	0.1864	6.2000e-004	0.0904	2.5000e-004	0.0906	0.0240	2.3000e-004	0.0242		63.1174	63.1174	1.0200e-003	1.3500e-003	63.5438
<b>Total</b>	<b>0.0216</b>	<b>9.0900e-003</b>	<b>0.1864</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.5000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.3000e-004</b>	<b>0.0242</b>		<b>63.1174</b>	<b>63.1174</b>	<b>1.0200e-003</b>	<b>1.3500e-003</b>	<b>63.5438</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Unmitigated	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2900	11.2900	0.0108		11.5587
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2900	11.2900	0.0108		11.5587
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 12 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 13 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	51300	0
tblAreaCoating	Area_Residential_Interior	153900	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/21/2036	12/31/2035
tblConstructionPhase	PhaseEndDate	1/2/2036	11/12/2035
tblConstructionPhase	PhaseEndDate	1/26/2035	12/31/2034
tblConstructionPhase	PhaseEndDate	2/14/2035	2/5/2035

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	1/28/2036	12/5/2035
tblConstructionPhase	PhaseEndDate	2/2/2035	1/11/2035
tblConstructionPhase	PhaseStartDate	1/29/2036	12/7/2035
tblConstructionPhase	PhaseStartDate	2/15/2035	2/6/2035
tblConstructionPhase	PhaseStartDate	2/3/2035	1/12/2035
tblConstructionPhase	PhaseStartDate	1/3/2036	11/13/2035
tblConstructionPhase	PhaseStartDate	1/27/2035	1/1/2035
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberWood	26.60	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2035	0.2116	0.9024	2.0334	4.3000e-003	0.1929	0.0134	0.2063	0.0877	0.0134	0.1011	0.0000	368.9917	368.9917	0.0129	2.7700e-003	370.1382
<b>Maximum</b>	<b>0.2116</b>	<b>0.9024</b>	<b>2.0334</b>	<b>4.3000e-003</b>	<b>0.1929</b>	<b>0.0134</b>	<b>0.2063</b>	<b>0.0877</b>	<b>0.0134</b>	<b>0.1011</b>	<b>0.0000</b>	<b>368.9917</b>	<b>368.9917</b>	<b>0.0129</b>	<b>2.7700e-003</b>	<b>370.1382</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2035	0.0985	0.2981	2.2230	4.3000e-003	0.1929	5.3600e-003	0.1983	0.0877	5.3400e-003	0.0931	0.0000	368.9913	368.9913	0.0129	2.7700e-003	370.1378
<b>Maximum</b>	<b>0.0985</b>	<b>0.2981</b>	<b>2.2230</b>	<b>4.3000e-003</b>	<b>0.1929</b>	<b>5.3600e-003</b>	<b>0.1983</b>	<b>0.0877</b>	<b>5.3400e-003</b>	<b>0.0931</b>	<b>0.0000</b>	<b>368.9913</b>	<b>368.9913</b>	<b>0.0129</b>	<b>2.7700e-003</b>	<b>370.1378</b>



CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2035	12/31/2034	5	0	
2	Site Preparation	Site Preparation	1/1/2035	1/11/2035	5	9	
3	Grading	Grading	1/12/2035	2/5/2035	5	17	

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2035	11/12/2035	5	200
5	Paving	Paving	11/13/2035	12/5/2035	5	17
6	Architectural Coating	Architectural Coating	12/7/2035	12/31/2035	5	17

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37



CEFHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0214
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.3100e-003</b>	<b>0.0866</b>	<b>0.0451</b>	<b>1.3100e-003</b>	<b>0.0464</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0214</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0213
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>2.8000e-004</b>	<b>0.0856</b>	<b>0.0451</b>	<b>2.8000e-004</b>	<b>0.0454</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0213</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0509	0.1218	3.1000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	26.5239	26.5239	9.9000e-004	0.0000	26.5486
<b>Total</b>	<b>0.0124</b>	<b>0.0509</b>	<b>0.1218</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.3200e-003</b>	<b>0.0568</b>	<b>0.0286</b>	<b>1.3200e-003</b>	<b>0.0299</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>26.5486</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0134	0.1509	3.1000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	26.5239	26.5239	9.9000e-004	0.0000	26.5486
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0134</b>	<b>0.1509</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>4.1000e-004</b>	<b>0.0558</b>	<b>0.0286</b>	<b>4.1000e-004</b>	<b>0.0290</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>26.5486</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8610	262.8610	9.7900e-003	0.0000	263.1058
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1058</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0377	0.0107	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.7000e-004	1.6800e-003	0.0000	14.3011	14.3011	4.0000e-005	2.0600e-003	14.9162
Worker	9.1400e-003	4.9200e-003	0.0837	2.9000e-004	0.0433	1.2000e-004	0.0434	0.0115	1.1000e-004	0.0116	0.0000	26.2674	26.2674	4.8000e-004	6.5000e-004	26.4734
<b>Total</b>	<b>0.0101</b>	<b>0.0426</b>	<b>0.0944</b>	<b>4.4000e-004</b>	<b>0.0485</b>	<b>3.0000e-004</b>	<b>0.0488</b>	<b>0.0130</b>	<b>2.8000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>40.5685</b>	<b>40.5685</b>	<b>5.2000e-004</b>	<b>2.7100e-003</b>	<b>41.3895</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0328	0.2235	1.7460	3.1000e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	262.8607	262.8607	9.7900e-003	0.0000	263.1055
<b>Total</b>	<b>0.0328</b>	<b>0.2235</b>	<b>1.7460</b>	<b>3.1000e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>		<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1055</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0377	0.0107	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.7000e-004	1.6800e-003	0.0000	14.3011	14.3011	4.0000e-005	2.0600e-003	14.9162
Worker	9.1400e-003	4.9200e-003	0.0837	2.9000e-004	0.0433	1.2000e-004	0.0434	0.0115	1.1000e-004	0.0116	0.0000	26.2674	26.2674	4.8000e-004	6.5000e-004	26.4734
<b>Total</b>	<b>0.0101</b>	<b>0.0426</b>	<b>0.0944</b>	<b>4.4000e-004</b>	<b>0.0485</b>	<b>3.0000e-004</b>	<b>0.0488</b>	<b>0.0130</b>	<b>2.8000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>40.5685</b>	<b>40.5685</b>	<b>5.2000e-004</b>	<b>2.7100e-003</b>	<b>41.3895</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4100e-003	0.0403	0.1111	2.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	16.6117	16.6117	6.8000e-004	0.0000	16.6287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4100e-003</b>	<b>0.0403</b>	<b>0.1111</b>	<b>2.0000e-004</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>16.6117</b>	<b>16.6117</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.6287</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>



CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8700e-003	8.0800e-003	0.1150	2.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	16.6116	16.6116	6.8000e-004	0.0000	16.6287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.8700e-003</b>	<b>8.0800e-003</b>	<b>0.1150</b>	<b>2.0000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>16.6116</b>	<b>16.6116</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.6287</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>0.0486</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.4200e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4466	0.4466	1.0000e-005	1.0000e-005	0.4501
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4466</b>	<b>0.4466</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4501</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	1.0900e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>0.0478</b>	<b>1.0900e-003</b>	<b>0.0156</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.4200e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4466	0.4466	1.0000e-005	1.0000e-005	0.4501
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4466</b>	<b>0.4466</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4501</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987



CEHSP Construction Year 13 Mitigated - El Dorado-Mountain County, Annual  
 EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use		tons/yr															MT/yr			
NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e				
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Apartments Low Rise																				
Total																				

Mitigated

Land Use		tons/yr															MT/yr			
NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e				
0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Apartments Low Rise																				
Total																				

CEdHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

**6.0 Area Detail**

**6.1 Mitigation Measures Area**





CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use**  
**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e	
Land Use	tons	MT/yr				
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000	

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e	
Land Use	tons	MT/yr				
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000	

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 13 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	76.00	Dwelling Unit	4.16	76,000.00	217

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	51300	0
tblAreaCoating	Area_Residential_Interior	153900	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/21/2036	12/31/2035
tblConstructionPhase	PhaseEndDate	1/2/2036	11/12/2035
tblConstructionPhase	PhaseEndDate	1/26/2035	12/31/2034
tblConstructionPhase	PhaseEndDate	2/14/2035	2/5/2035



CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	1/28/2036	12/5/2035
tblConstructionPhase	PhaseEndDate	2/2/2035	1/11/2035
tblConstructionPhase	PhaseStartDate	1/29/2036	12/7/2035
tblConstructionPhase	PhaseStartDate	2/15/2035	2/6/2035
tblConstructionPhase	PhaseStartDate	2/3/2035	1/12/2035
tblConstructionPhase	PhaseStartDate	1/3/2036	11/13/2035
tblConstructionPhase	PhaseStartDate	1/27/2035	1/1/2035
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.80	0.00
tblFireplaces	NumberWood	26.60	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.75	4.16
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.96	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,951,705.95	0.00

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWater	OutdoorWaterUseRate	3,121,727.66	0.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2035	5.7330	10.1541	17.1285	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,511.5956	4,511.5956	0.1905	0.0293	4,517.0015
<b>Maximum</b>	<b>5.7330</b>	<b>10.1541</b>	<b>17.1285</b>	<b>0.0476</b>	<b>19.0979</b>	<b>0.2915</b>	<b>19.3894</b>	<b>10.0653</b>	<b>0.2915</b>	<b>10.3568</b>	<b>0.0000</b>	<b>4,511.5956</b>	<b>4,511.5956</b>	<b>0.1905</b>	<b>0.0293</b>	<b>4,517.0015</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2035	5.6448	2.6418	21.1656	0.0476	19.0979	0.0625	19.1603	10.0653	0.0624	10.1278	0.0000	4,511.5956	4,511.5956	0.1905	0.0293	4,517.0015
<b>Maximum</b>	<b>5.6448</b>	<b>2.6418</b>	<b>21.1656</b>	<b>0.0476</b>	<b>19.0979</b>	<b>0.0625</b>	<b>19.1603</b>	<b>10.0653</b>	<b>0.0624</b>	<b>10.1278</b>	<b>0.0000</b>	<b>4,511.5956</b>	<b>4,511.5956</b>	<b>0.1905</b>	<b>0.0293</b>	<b>4,517.0015</b>

## CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.54	73.98	-23.57	0.00	0.00	78.57	1.18	0.00	78.58	2.21	0.00	0.00	0.00	0.00	0.00	0.00

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2035	12/31/2034	5	0	
2	Site Preparation	Site Preparation	1/1/2035	1/11/2035	5	9	
3	Grading	Grading	1/12/2035	2/5/2035	5	17	
4	Building Construction	Building Construction	2/6/2035	11/12/2035	5	200	
5	Paving	Paving	11/13/2035	12/5/2035	5	17	
6	Architectural Coating	Architectural Coating	12/7/2035	12/31/2035	5	17	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911		4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.2911</b>	<b>19.2411</b>	<b>10.0261</b>	<b>0.2911</b>	<b>10.3172</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.0621</b>	<b>19.0121</b>	<b>10.0261</b>	<b>0.0621</b>	<b>10.0882</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>



CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.4619	5.9823	14.3296	0.0363		0.1557	0.1557		0.1557	0.1557		3,439.720 1	3,439.720 1	0.1282		3,442.925 9
<b>Total</b>	<b>1.4619</b>	<b>5.9823</b>	<b>14.3296</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.1557</b>	<b>6.6768</b>	<b>3.3641</b>	<b>0.1557</b>	<b>3.5198</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1282</b>		<b>3,442.925 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0363		0.0484	0.0484		0.0484	0.0484	0.0000	3,439.720 1	3,439.720 1	0.1282		3,442.925 9
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.0484</b>	<b>6.5696</b>	<b>3.3641</b>	<b>0.0484</b>	<b>3.4125</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1282</b>		<b>3,442.925 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3637	0.1044	1.4900e-003	0.0540	1.8000e-003	0.0558	0.0156	1.7200e-003	0.0173		157.5428	157.5428	4.9000e-004	0.0227	164.3128
Worker	0.1018	0.0434	0.9063	3.0800e-003	0.4518	1.1800e-003	0.4530	0.1198	1.0800e-003	0.1209		311.1836	311.1836	4.7600e-003	6.6000e-003	313.2698
<b>Total</b>	<b>0.1111</b>	<b>0.4071</b>	<b>1.0107</b>	<b>4.5700e-003</b>	<b>0.5059</b>	<b>2.9800e-003</b>	<b>0.5088</b>	<b>0.1354</b>	<b>2.8000e-003</b>	<b>0.1382</b>		<b>468.7264</b>	<b>468.7264</b>	<b>5.2500e-003</b>	<b>0.0293</b>	<b>477.5826</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0310		0.0408	0.0408		0.0408	0.0408	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3278</b>	<b>2.2347</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3637	0.1044	1.4900e-003	0.0540	1.8000e-003	0.0558	0.0156	1.7200e-003	0.0173		157.5428	157.5428	4.9000e-004	0.0227	164.3128
Worker	0.1018	0.0434	0.9063	3.0800e-003	0.4518	1.1800e-003	0.4530	0.1198	1.0800e-003	0.1209		311.1836	311.1836	4.7600e-003	6.6000e-003	313.2698
<b>Total</b>	<b>0.1111</b>	<b>0.4071</b>	<b>1.0107</b>	<b>4.5700e-003</b>	<b>0.5059</b>	<b>2.9800e-003</b>	<b>0.5088</b>	<b>0.1354</b>	<b>2.8000e-003</b>	<b>0.1382</b>		<b>468.7264</b>	<b>468.7264</b>	<b>5.2500e-003</b>	<b>0.0293</b>	<b>477.5826</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9893	4.7441	13.0737	0.0230		0.1540	0.1540		0.1540	0.1540		2,154.2603	2,154.2603	0.0885		2,156.4730
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9893</b>	<b>4.7441</b>	<b>13.0737</b>	<b>0.0230</b>		<b>0.1540</b>	<b>0.1540</b>		<b>0.1540</b>	<b>0.1540</b>		<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.0885</b>		<b>2,156.4730</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0230		0.0293	0.0293		0.0293	0.0293	0.0000	2,154.2603	2,154.2603	0.0885		2,156.4730
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2194</b>	<b>0.9509</b>	<b>13.5323</b>	<b>0.0230</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.0885</b>		<b>2,156.4730</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2035**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.5947					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>5.7126</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	8.6800e-003	0.1813	6.2000e-004	0.0904	2.4000e-004	0.0906	0.0240	2.2000e-004	0.0242		62.2367	62.2367	9.5000e-004	1.3200e-003	62.6540
<b>Total</b>	<b>0.0204</b>	<b>8.6800e-003</b>	<b>0.1813</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.4000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.2000e-004</b>	<b>0.0242</b>		<b>62.2367</b>	<b>62.2367</b>	<b>9.5000e-004</b>	<b>1.3200e-003</b>	<b>62.6540</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2035**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.5947					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>5.6244</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	8.6800e-003	0.1813	6.2000e-004	0.0904	2.4000e-004	0.0906	0.0240	2.2000e-004	0.0242		62.2367	62.2367	9.5000e-004	1.3200e-003	62.6540
<b>Total</b>	<b>0.0204</b>	<b>8.6800e-003</b>	<b>0.1813</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.4000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.2000e-004</b>	<b>0.0242</b>		<b>62.2367</b>	<b>62.2367</b>	<b>9.5000e-004</b>	<b>1.3200e-003</b>	<b>62.6540</b>



CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587
Unmitigated	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348	0.0000	11.2900	11.2900	0.0108	0.0000	11.5587

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2900	11.2900	0.0108		11.5587
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1868	0.0721	6.2481	3.3000e-004		0.0348	0.0348		0.0348	0.0348		11.2900	11.2900	0.0108		11.5587
<b>Total</b>	<b>0.1868</b>	<b>0.0721</b>	<b>6.2481</b>	<b>3.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0348</b>	<b>0.0348</b>	<b>0.0000</b>	<b>11.2900</b>	<b>11.2900</b>	<b>0.0108</b>	<b>0.0000</b>	<b>11.5587</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 13 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 14 Mitigated  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	75.00	Dwelling Unit	4.10	75,000.00	215
Government (Civic Center)	50.00	1000sqft	11.00	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Government civic land use includes 11 acres of "Commercial Use" or 50,000 square feetSee Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	50625	0
tblAreaCoating	Area_Residential_Interior	151875	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00



CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2037	12/29/2036
tblConstructionPhase	PhaseEndDate	5/18/2037	11/11/2036
tblConstructionPhase	PhaseEndDate	1/28/2036	12/31/2035

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	3/24/2036	2/5/2036
tblConstructionPhase	PhaseEndDate	6/15/2037	12/4/2036
tblConstructionPhase	PhaseEndDate	2/11/2036	1/11/2036
tblConstructionPhase	PhaseStartDate	6/16/2037	12/5/2036
tblConstructionPhase	PhaseStartDate	3/25/2036	2/6/2036
tblConstructionPhase	PhaseStartDate	2/12/2036	1/14/2036
tblConstructionPhase	PhaseStartDate	5/19/2037	11/12/2036
tblConstructionPhase	PhaseStartDate	1/29/2036	1/1/2036
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	3.45	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3.98	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	3.25	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	19.34	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberWood	26.25	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.69	4.10
tblLandUse	LotAcreage	1.15	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblSolidWaste	SolidWasteGenerationRate	285.00	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	33.98	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	IndoorWaterUseRate	9,932,984.29	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00
tblWater	OutdoorWaterUseRate	6,087,958.12	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2036	12/31/2035	5	0	
2	Site Preparation	Site Preparation	1/1/2036	1/11/2036	5	9	
3	Grading	Grading	1/14/2036	2/5/2036	5	17	

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2036	11/11/2036	5	200
5	Paving	Paving	11/12/2036	12/4/2036	5	17
6	Architectural Coating	Architectural Coating	12/5/2036	12/29/2036	5	17

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 151,875; Residential Outdoor: 50,625; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Scrapers	2	8.00	367	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

**3.3 Site Preparation - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0214
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>1.3100e-003</b>	<b>0.0906</b>	<b>0.0456</b>	<b>1.3100e-003</b>	<b>0.0469</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0214</b>



CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0893	0.0000	0.0893	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0213
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>2.1000e-004</b>	<b>0.0893</b>	<b>2.8000e-004</b>	<b>0.0895</b>	<b>0.0456</b>	<b>2.8000e-004</b>	<b>0.0458</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0213</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

**3.4 Grading - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.0816	0.1915	5.9000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	55.6208	55.6208	1.9700e-003	0.0000	55.6702
<b>Total</b>	<b>0.0248</b>	<b>0.0816</b>	<b>0.1915</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>2.6700e-003</b>	<b>0.1016</b>	<b>0.0333</b>	<b>2.6700e-003</b>	<b>0.0360</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>55.6702</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0989	0.0000	0.0989	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4700e-003	0.0281	0.2805	5.9000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	55.6208	55.6208	1.9700e-003	0.0000	55.6701
<b>Total</b>	<b>6.4700e-003</b>	<b>0.0281</b>	<b>0.2805</b>	<b>5.9000e-004</b>	<b>0.0989</b>	<b>8.6000e-004</b>	<b>0.0998</b>	<b>0.0333</b>	<b>8.6000e-004</b>	<b>0.0342</b>	<b>0.0000</b>	<b>55.6208</b>	<b>55.6208</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>55.6701</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

**3.5 Building Construction - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8610	262.8610	9.7900e-003	0.0000	263.1058
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1058</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0754	0.0213	3.0000e-004	0.0104	3.6000e-004	0.0108	3.0200e-003	3.4000e-004	3.3600e-003	0.0000	28.6022	28.6022	9.0000e-005	4.1200e-003	29.8323
Worker	0.0116	6.2600e-003	0.1066	3.6000e-004	0.0551	1.5000e-004	0.0553	0.0147	1.4000e-004	0.0148	0.0000	33.4312	33.4312	6.1000e-004	8.3000e-004	33.6934
<b>Total</b>	<b>0.0135</b>	<b>0.0816</b>	<b>0.1279</b>	<b>6.6000e-004</b>	<b>0.0656</b>	<b>5.1000e-004</b>	<b>0.0661</b>	<b>0.0177</b>	<b>4.8000e-004</b>	<b>0.0182</b>	<b>0.0000</b>	<b>62.0335</b>	<b>62.0335</b>	<b>7.0000e-004</b>	<b>4.9500e-003</b>	<b>63.5257</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0476	0.2445	1.6368	3.1000e-003		4.9100e-003	4.9100e-003		4.9100e-003	4.9100e-003	0.0000	262.8607	262.8607	9.7900e-003	0.0000	263.1055
<b>Total</b>	<b>0.0476</b>	<b>0.2445</b>	<b>1.6368</b>	<b>3.1000e-003</b>		<b>4.9100e-003</b>	<b>4.9100e-003</b>		<b>4.9100e-003</b>	<b>4.9100e-003</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1055</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2036**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0754	0.0213	3.0000e-004	0.0104	3.6000e-004	0.0108	3.0200e-003	3.4000e-004	3.3600e-003	0.0000	28.6022	28.6022	9.0000e-005	4.1200e-003	29.8323
Worker	0.0116	6.2600e-003	0.1066	3.6000e-004	0.0551	1.5000e-004	0.0553	0.0147	1.4000e-004	0.0148	0.0000	33.4312	33.4312	6.1000e-004	8.3000e-004	33.6934
<b>Total</b>	<b>0.0135</b>	<b>0.0816</b>	<b>0.1279</b>	<b>6.6000e-004</b>	<b>0.0656</b>	<b>5.1000e-004</b>	<b>0.0661</b>	<b>0.0177</b>	<b>4.8000e-004</b>	<b>0.0182</b>	<b>0.0000</b>	<b>62.0335</b>	<b>62.0335</b>	<b>7.0000e-004</b>	<b>4.9500e-003</b>	<b>63.5257</b>

**3.6 Paving - 2036**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6900e-003	0.0415	0.1345	2.4000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	20.4846	20.4846	7.9000e-004	0.0000	20.5043
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.6900e-003</b>	<b>0.0415</b>	<b>0.1345</b>	<b>2.4000e-004</b>		<b>1.5900e-003</b>	<b>1.5900e-003</b>		<b>1.5900e-003</b>	<b>1.5900e-003</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>20.5043</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3800e-003	0.0103	0.1470	2.4000e-004		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	20.4846	20.4846	7.9000e-004	0.0000	20.5043
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.3800e-003</b>	<b>0.0103</b>	<b>0.1470</b>	<b>2.4000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>20.4846</b>	<b>20.4846</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>20.5043</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

**3.7 Architectural Coating - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0701					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>0.0711</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>



CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2036**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.8100e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.5683	0.5683	1.0000e-005	1.0000e-005	0.5728
<b>Total</b>	<b>2.0000e-004</b>	<b>1.1000e-004</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.5683</b>	<b>0.5683</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5728</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0701					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>0.0711</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2036**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.1000e-004	1.8100e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.5683	0.5683	1.0000e-005	1.0000e-005	0.5728
<b>Total</b>	<b>2.0000e-004</b>	<b>1.1000e-004</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.5683</b>	<b>0.5683</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5728</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

CEHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Government (Civic Center)	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**





CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 14 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	75.00	Dwelling Unit	4.10	75,000.00	215
Government (Civic Center)	50.00	1000sqft	11.00	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. Government civic land use includes 11 acres of "Commercial Use" or 50,000 square feetSee Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Nonresidential_Exterior	25000	0
tblAreaCoating	Area_Nonresidential_Interior	75000	0
tblAreaCoating	Area_Residential_Exterior	50625	0
tblAreaCoating	Area_Residential_Interior	151875	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	17.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	PhaseEndDate	7/13/2037	12/29/2036
tblConstructionPhase	PhaseEndDate	5/18/2037	11/11/2036
tblConstructionPhase	PhaseEndDate	1/28/2036	12/31/2035



CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	3/24/2036	2/5/2036
tblConstructionPhase	PhaseEndDate	6/15/2037	12/4/2036
tblConstructionPhase	PhaseEndDate	2/11/2036	1/11/2036
tblConstructionPhase	PhaseStartDate	6/16/2037	12/5/2036
tblConstructionPhase	PhaseStartDate	3/25/2036	2/6/2036
tblConstructionPhase	PhaseStartDate	2/12/2036	1/14/2036
tblConstructionPhase	PhaseStartDate	5/19/2037	11/12/2036
tblConstructionPhase	PhaseStartDate	1/29/2036	1/1/2036
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	3.45	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3.98	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24E	3.25	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblEnergyUse	T24NG	19.34	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberWood	26.25	0.00
tblGrading	AcresOfGrading	51.00	90.00
tblGrading	AcresOfGrading	13.50	15.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.69	4.10
tblLandUse	LotAcreage	1.15	11.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblSolidWaste	SolidWasteGenerationRate	285.00	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblVehicleTrips	WD_TR	33.98	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	IndoorWaterUseRate	9,932,984.29	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00
tblWater	OutdoorWaterUseRate	6,087,958.12	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00

**2.0 Emissions Summary**

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CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1524	11.1524	0.0106	0.0000	11.4182
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1848</b>	<b>0.0712</b>	<b>6.1709</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1524</b>	<b>11.1524</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4182</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1524	11.1524	0.0106	0.0000	11.4182
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1848</b>	<b>0.0712</b>	<b>6.1709</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1524</b>	<b>11.1524</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4182</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2036	12/31/2035	5	0	
2	Site Preparation	Site Preparation	1/1/2036	1/11/2036	5	9	
3	Grading	Grading	1/14/2036	2/5/2036	5	17	
4	Building Construction	Building Construction	2/6/2036	11/11/2036	5	200	
5	Paving	Paving	11/12/2036	12/4/2036	5	17	
6	Architectural Coating	Architectural Coating	12/5/2036	12/29/2036	5	17	

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 90**

**Acres of Paving: 0**

**Residential Indoor: 151,875; Residential Outdoor: 50,625; Non-Residential Indoor: 75,000; Non-Residential Outdoor: 25,000; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Scrapers	2	8.00	367	0.48
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	70.00	16.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911		4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.2911</b>	<b>20.1249</b>	<b>10.1215</b>	<b>0.2911</b>	<b>10.4126</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>19.8338</b>	<b>0.0621</b>	<b>19.8958</b>	<b>10.1215</b>	<b>0.0621</b>	<b>10.1836</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>



CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	2.9116	9.5942	22.5250	0.0699		0.3142	0.3142		0.3142	0.3142		7,213.1148	7,213.1148	0.2560		7,219.5135
<b>Total</b>	<b>2.9116</b>	<b>9.5942</b>	<b>22.5250</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.3142</b>	<b>11.9507</b>	<b>3.9165</b>	<b>0.3142</b>	<b>4.2307</b>		<b>7,213.1148</b>	<b>7,213.1148</b>	<b>0.2560</b>		<b>7,219.5135</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.6365	0.0000	11.6365	3.9165	0.0000	3.9165			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1148	7,213.1148	0.2560		7,219.5135
<b>Total</b>	<b>0.7616</b>	<b>3.3000</b>	<b>32.9991</b>	<b>0.0699</b>	<b>11.6365</b>	<b>0.1015</b>	<b>11.7380</b>	<b>3.9165</b>	<b>0.1015</b>	<b>4.0180</b>	<b>0.0000</b>	<b>7,213.1148</b>	<b>7,213.1148</b>	<b>0.2560</b>		<b>7,219.5135</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0186	0.7273	0.2087	2.9900e-003	0.1081	3.6000e-003	0.1117	0.0311	3.4400e-003	0.0345		315.0856	315.0856	9.7000e-004	0.0454	328.6255
Worker	0.1296	0.0552	1.1535	3.9200e-003	0.5750	1.5000e-003	0.5765	0.1525	1.3800e-003	0.1539		396.0518	396.0518	6.0600e-003	8.4000e-003	398.7071
<b>Total</b>	<b>0.1482</b>	<b>0.7826</b>	<b>1.3622</b>	<b>6.9100e-003</b>	<b>0.6831</b>	<b>5.1000e-003</b>	<b>0.6882</b>	<b>0.1836</b>	<b>4.8200e-003</b>	<b>0.1884</b>		<b>711.1374</b>	<b>711.1374</b>	<b>7.0300e-003</b>	<b>0.0538</b>	<b>727.3326</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4757	2.4446	16.3675	0.0310		0.0491	0.0491		0.0491	0.0491	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.4757</b>	<b>2.4446</b>	<b>16.3675</b>	<b>0.0310</b>		<b>0.0491</b>	<b>0.0491</b>		<b>0.0491</b>	<b>0.0491</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0186	0.7273	0.2087	2.9900e-003	0.1081	3.6000e-003	0.1117	0.0311	3.4400e-003	0.0345		315.0856	315.0856	9.7000e-004	0.0454	328.6255
Worker	0.1296	0.0552	1.1535	3.9200e-003	0.5750	1.5000e-003	0.5765	0.1525	1.3800e-003	0.1539		396.0518	396.0518	6.0600e-003	8.4000e-003	398.7071
<b>Total</b>	<b>0.1482</b>	<b>0.7826</b>	<b>1.3622</b>	<b>6.9100e-003</b>	<b>0.6831</b>	<b>5.1000e-003</b>	<b>0.6882</b>	<b>0.1836</b>	<b>4.8200e-003</b>	<b>0.1884</b>		<b>711.1374</b>	<b>711.1374</b>	<b>7.0300e-003</b>	<b>0.0538</b>	<b>727.3326</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1405</b>	<b>4.8761</b>	<b>15.8203</b>	<b>0.0281</b>		<b>0.1874</b>	<b>0.1874</b>		<b>0.1874</b>	<b>0.1874</b>		<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0727</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>1.2154</b>	<b>17.2957</b>	<b>0.0281</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,656.5168</b>	<b>2,656.5168</b>	<b>0.1022</b>		<b>2,659.0726</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2036**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.2476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>8.3654</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0259	0.0111	0.2307	7.8000e-004	0.1150	3.0000e-004	0.1153	0.0305	2.8000e-004	0.0308		79.2104	79.2104	1.2100e-003	1.6800e-003	79.7414
<b>Total</b>	<b>0.0259</b>	<b>0.0111</b>	<b>0.2307</b>	<b>7.8000e-004</b>	<b>0.1150</b>	<b>3.0000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.8000e-004</b>	<b>0.0308</b>		<b>79.2104</b>	<b>79.2104</b>	<b>1.2100e-003</b>	<b>1.6800e-003</b>	<b>79.7414</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2036**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.2476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>8.3654</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0259	0.0111	0.2307	7.8000e-004	0.1150	3.0000e-004	0.1153	0.0305	2.8000e-004	0.0308		79.2104	79.2104	1.2100e-003	1.6800e-003	79.7414
<b>Total</b>	<b>0.0259</b>	<b>0.0111</b>	<b>0.2307</b>	<b>7.8000e-004</b>	<b>0.1150</b>	<b>3.0000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.8000e-004</b>	<b>0.0308</b>		<b>79.2104</b>	<b>79.2104</b>	<b>1.2100e-003</b>	<b>1.6800e-003</b>	<b>79.7414</b>



CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Government (Civic Center)	9.50	7.30	7.30	75.00	20.00	5.00	50	34	16

**4.4 Fleet Mix**

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987
Government (Civic Center)	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1524	11.1524	0.0106	0.0000	11.4182
Unmitigated	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1524	11.1524	0.0106	0.0000	11.4182

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343		11.1524	11.1524	0.0106		11.4182
<b>Total</b>	<b>0.1848</b>	<b>0.0712</b>	<b>6.1709</b>	<b>3.3000e-004</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1524</b>	<b>11.1524</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4182</b>

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1848	0.0712	6.1709	3.3000e-004		0.0343	0.0343		0.0343	0.0343		11.1524	11.1524	0.0106		11.4182
<b>Total</b>	<b>0.1848</b>	<b>0.0712</b>	<b>6.1709</b>	<b>3.3000e-004</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1524</b>	<b>11.1524</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4182</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 14 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 15 Mitigated**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	75.00	Dwelling Unit	4.10	75,000.00	215

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1	<b>Operational Year</b>		2035	
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	50625	0
tblAreaCoating	Area_Residential_Interior	151875	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/23/2038	12/30/2037
tblConstructionPhase	PhaseEndDate	1/4/2038	11/12/2037
tblConstructionPhase	PhaseEndDate	1/28/2037	12/31/2036
tblConstructionPhase	PhaseEndDate	2/16/2037	2/5/2037
tblConstructionPhase	PhaseEndDate	1/28/2038	12/7/2037

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	2/4/2037	1/13/2037
tblConstructionPhase	PhaseStartDate	1/29/2038	12/8/2037
tblConstructionPhase	PhaseStartDate	2/17/2037	2/6/2037
tblConstructionPhase	PhaseStartDate	2/5/2037	1/14/2037
tblConstructionPhase	PhaseStartDate	1/5/2038	11/13/2037
tblConstructionPhase	PhaseStartDate	1/29/2037	1/1/2037
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberWood	26.25	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.69	4.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2037	0.2108	0.9023	2.0319	4.2900e-003	0.1922	0.0134	0.2055	0.0875	0.0134	0.1009	0.0000	368.5141	368.5141	0.0129	2.7600e-003	369.6568
<b>Maximum</b>	<b>0.2108</b>	<b>0.9023</b>	<b>2.0319</b>	<b>4.2900e-003</b>	<b>0.1922</b>	<b>0.0134</b>	<b>0.2055</b>	<b>0.0875</b>	<b>0.0134</b>	<b>0.1009</b>	<b>0.0000</b>	<b>368.5141</b>	<b>368.5141</b>	<b>0.0129</b>	<b>2.7600e-003</b>	<b>369.6568</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2037	0.1046	0.3720	2.2212	4.2900e-003	0.1922	0.0153	0.2075	0.0875	0.0153	0.1028	0.0000	368.5137	368.5137	0.0129	2.7600e-003	369.6565
<b>Maximum</b>	<b>0.1046</b>	<b>0.3720</b>	<b>2.2212</b>	<b>4.2900e-003</b>	<b>0.1922</b>	<b>0.0153</b>	<b>0.2075</b>	<b>0.0875</b>	<b>0.0153</b>	<b>0.1028</b>	<b>0.0000</b>	<b>368.5137</b>	<b>368.5137</b>	<b>0.0129</b>	<b>2.7600e-003</b>	<b>369.6565</b>



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2037	12/31/2036	5	0	
2	Site Preparation	Site Preparation	1/1/2037	1/13/2037	5	9	
3	Grading	Grading	1/14/2037	2/5/2037	5	17	

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Building Construction	Building Construction	2/6/2037	11/12/2037	5	200
5	Paving	Paving	11/13/2037	12/7/2037	5	17
6	Architectural Coating	Architectural Coating	12/8/2037	12/30/2037	5	17

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 151,875; Residential Outdoor: 50,625; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6700e-003	0.0456	0.0719	2.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0214
<b>Total</b>	<b>9.6700e-003</b>	<b>0.0456</b>	<b>0.0719</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>1.3100e-003</b>	<b>0.0866</b>	<b>0.0451</b>	<b>1.3100e-003</b>	<b>0.0464</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0214</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0853	0.0000	0.0853	0.0451	0.0000	0.0451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	9.0800e-003	0.0939	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.0021	18.0021	7.7000e-004	0.0000	18.0213
<b>Total</b>	<b>2.1000e-003</b>	<b>9.0800e-003</b>	<b>0.0939</b>	<b>2.1000e-004</b>	<b>0.0853</b>	<b>2.8000e-004</b>	<b>0.0856</b>	<b>0.0451</b>	<b>2.8000e-004</b>	<b>0.0454</b>	<b>0.0000</b>	<b>18.0021</b>	<b>18.0021</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>18.0213</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	7.0000e-005	1.2300e-003	0.0000	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.3869	0.3869	1.0000e-005	1.0000e-005	0.3899
<b>Total</b>	<b>1.3000e-004</b>	<b>7.0000e-005</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.3869</b>	<b>0.3869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3899</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0509	0.1218	3.1000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	26.5239	26.5239	9.9000e-004	0.0000	26.5486
<b>Total</b>	<b>0.0124</b>	<b>0.0509</b>	<b>0.1218</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>1.3200e-003</b>	<b>0.0568</b>	<b>0.0286</b>	<b>1.3200e-003</b>	<b>0.0299</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>26.5486</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0134	0.1509	3.1000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	26.5239	26.5239	9.9000e-004	0.0000	26.5486
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0134</b>	<b>0.1509</b>	<b>3.1000e-004</b>	<b>0.0554</b>	<b>4.1000e-004</b>	<b>0.0558</b>	<b>0.0286</b>	<b>4.1000e-004</b>	<b>0.0290</b>	<b>0.0000</b>	<b>26.5239</b>	<b>26.5239</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>26.5486</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.9400e-003	1.0000e-005	1.0000e-003	0.0000	1.0100e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.6089	0.6089	1.0000e-005	2.0000e-005	0.6137
<b>Total</b>	<b>2.1000e-004</b>	<b>1.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6089</b>	<b>0.6089</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6137</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	0.7161	1.6118	3.1000e-003		9.0400e-003	9.0400e-003		9.0400e-003	9.0400e-003	0.0000	262.8610	262.8610	9.7900e-003	0.0000	263.1058
<b>Total</b>	<b>0.1217</b>	<b>0.7161</b>	<b>1.6118</b>	<b>3.1000e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>		<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>0.0000</b>	<b>262.8610</b>	<b>262.8610</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1058</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0377	0.0107	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.7000e-004	1.6800e-003	0.0000	14.3011	14.3011	4.0000e-005	2.0600e-003	14.9162
Worker	8.9800e-003	4.8300e-003	0.0822	2.8000e-004	0.0425	1.2000e-004	0.0426	0.0113	1.1000e-004	0.0114	0.0000	25.7898	25.7898	4.7000e-004	6.4000e-004	25.9920
<b>Total</b>	<b>9.8900e-003</b>	<b>0.0425</b>	<b>0.0929</b>	<b>4.3000e-004</b>	<b>0.0477</b>	<b>3.0000e-004</b>	<b>0.0480</b>	<b>0.0128</b>	<b>2.8000e-004</b>	<b>0.0131</b>	<b>0.0000</b>	<b>40.0909</b>	<b>40.0909</b>	<b>5.1000e-004</b>	<b>2.7000e-003</b>	<b>40.9082</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0390	0.2921	1.7460	3.1000e-003		0.0140	0.0140		0.0140	0.0140	0.0000	262.8607	262.8607	9.7900e-003	0.0000	263.1055
<b>Total</b>	<b>0.0390</b>	<b>0.2921</b>	<b>1.7460</b>	<b>3.1000e-003</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0140</b>	<b>0.0140</b>	<b>0.0000</b>	<b>262.8607</b>	<b>262.8607</b>	<b>9.7900e-003</b>	<b>0.0000</b>	<b>263.1055</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1000e-004	0.0377	0.0107	1.5000e-004	5.2200e-003	1.8000e-004	5.4000e-003	1.5100e-003	1.7000e-004	1.6800e-003	0.0000	14.3011	14.3011	4.0000e-005	2.0600e-003	14.9162
Worker	8.9800e-003	4.8300e-003	0.0822	2.8000e-004	0.0425	1.2000e-004	0.0426	0.0113	1.1000e-004	0.0114	0.0000	25.7898	25.7898	4.7000e-004	6.4000e-004	25.9920
<b>Total</b>	<b>9.8900e-003</b>	<b>0.0425</b>	<b>0.0929</b>	<b>4.3000e-004</b>	<b>0.0477</b>	<b>3.0000e-004</b>	<b>0.0480</b>	<b>0.0128</b>	<b>2.8000e-004</b>	<b>0.0131</b>	<b>0.0000</b>	<b>40.0909</b>	<b>40.0909</b>	<b>5.1000e-004</b>	<b>2.7000e-003</b>	<b>40.9082</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4100e-003	0.0403	0.1111	2.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	16.6117	16.6117	6.8000e-004	0.0000	16.6287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4100e-003</b>	<b>0.0403</b>	<b>0.1111</b>	<b>2.0000e-004</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>16.6117</b>	<b>16.6117</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.6287</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8700e-003	8.0800e-003	0.1150	2.0000e-004		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	16.6116	16.6116	6.8000e-004	0.0000	16.6287
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.8700e-003</b>	<b>8.0800e-003</b>	<b>0.1150</b>	<b>2.0000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>16.6116</b>	<b>16.6116</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>16.6287</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.5000e-004	2.5900e-003	1.0000e-005	1.3400e-003	0.0000	1.3400e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.8119	0.8119	1.0000e-005	2.0000e-005	0.8183
<b>Total</b>	<b>2.8000e-004</b>	<b>1.5000e-004</b>	<b>2.5900e-003</b>	<b>1.0000e-005</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8183</b>



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0469					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>0.0479</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.4200e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4466	0.4466	1.0000e-005	1.0000e-005	0.4501
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4466</b>	<b>0.4466</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4501</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0469					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	6.4400e-003	0.0153	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	2.1703	2.1703	8.0000e-005	0.0000	2.1723
<b>Total</b>	<b>0.0479</b>	<b>6.4400e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1723</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	8.0000e-005	1.4200e-003	0.0000	7.4000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.4466	0.4466	1.0000e-005	1.0000e-005	0.4501
<b>Total</b>	<b>1.6000e-004</b>	<b>8.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4466</b>	<b>0.4466</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4501</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987





EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

CEdHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**  
**Unmitigated**

Land Use	tons	MT/yr			Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			Waste Disposed	Total CO2	CH4	N2O	CO2e
Apartment's Low Rise	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**Mitigated**

Land Use	tons	MT/yr			Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			Waste Disposed	Total CO2	CH4	N2O	CO2e
Apartment's Low Rise	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP Construction Year 15 Mitigated**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	75.00	Dwelling Unit	4.10	75,000.00	215

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Update model year run with year. Consistent with EIR Table 3.2-5. Construction Scheduling and Phasing

Assume one year of construction adjusted to 260 working days, operational year 2035

No change in emission factors

Land Use - Land use from PD. Scaled land use amounts & acreage based on construction phasing scaled to one year of construction. See Excel file CEDH\_Assumptions.

Construction Phase - No demolition phase - 0 days

Adjusted days per phase to 260 working days per one year construction, see Excel file CEDH\_Assumptions. Adjusted start and end dates based off 260 work day schedule.

Off-road Equipment - Remove all equipment for demolition. Left all other equipment as default

Vehicle Trips - Construction run only

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Woodstoves - Construction run only

Consumer Products - Construction run only

Area Coating - Construction run only

Landscape Equipment - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Architectural Coating - Applied mitigation measure AQ-2a, VOC content limit 10 g/L for all construction activity

Construction Off-road Equipment Mitigation - Applied mitigation measure AQ-2e, Tier 4 Final engines Years 6-15 (2028-2037)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	10.00
tblArchitecturalCoating	EF_Parking	250.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	10.00
tblAreaCoating	Area_Residential_Exterior	50625	0
tblAreaCoating	Area_Residential_Interior	151875	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	8.00	17.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	5.00	9.00
tblConstructionPhase	PhaseEndDate	2/23/2038	12/30/2037
tblConstructionPhase	PhaseEndDate	1/4/2038	11/12/2037
tblConstructionPhase	PhaseEndDate	1/28/2037	12/31/2036
tblConstructionPhase	PhaseEndDate	2/16/2037	2/5/2037
tblConstructionPhase	PhaseEndDate	1/28/2038	12/7/2037

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	PhaseEndDate	2/4/2037	1/13/2037
tblConstructionPhase	PhaseStartDate	1/29/2038	12/8/2037
tblConstructionPhase	PhaseStartDate	2/17/2037	2/6/2037
tblConstructionPhase	PhaseStartDate	2/5/2037	1/14/2037
tblConstructionPhase	PhaseStartDate	1/5/2038	11/13/2037
tblConstructionPhase	PhaseStartDate	1/29/2037	1/1/2037
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24NG	1,599.00	0.00
tblEnergyUse	T24E	165.27	0.00
tblEnergyUse	T24NG	8,768.16	0.00
tblFireplaces	NumberGas	41.25	0.00
tblFireplaces	NumberWood	26.25	0.00
tblGrading	AcresOfGrading	17.00	8.00
tblGrading	AcresOfGrading	13.50	7.50
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LotAcreage	4.69	4.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	34.50	0.00
tblVehicleTrips	ST_TR	8.14	0.00
tblVehicleTrips	SU_TR	6.28	0.00
tblVehicleTrips	WD_TR	7.32	0.00
tblWater	IndoorWaterUseRate	4,886,551.92	0.00
tblWater	OutdoorWaterUseRate	3,080,652.30	0.00



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2037	5.6593	10.1541	17.1120	0.0476	19.0979	0.2915	19.3894	10.0653	0.2915	10.3568	0.0000	4,511.5956	4,511.5956	0.1905	0.0292	4,517.0015
<b>Maximum</b>	<b>5.6593</b>	<b>10.1541</b>	<b>17.1120</b>	<b>0.0476</b>	<b>19.0979</b>	<b>0.2915</b>	<b>19.3894</b>	<b>10.0653</b>	<b>0.2915</b>	<b>10.3568</b>	<b>0.0000</b>	<b>4,511.5956</b>	<b>4,511.5956</b>	<b>0.1905</b>	<b>0.0292</b>	<b>4,517.0015</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2037	5.6593	3.3273	21.1656	0.0476	19.0979	0.1431	19.1603	10.0653	0.1429	10.1278	0.0000	4,511.5956	4,511.5956	0.1905	0.0292	4,517.0015
<b>Maximum</b>	<b>5.6593</b>	<b>3.3273</b>	<b>21.1656</b>	<b>0.0476</b>	<b>19.0979</b>	<b>0.1431</b>	<b>19.1603</b>	<b>10.0653</b>	<b>0.1429</b>	<b>10.1278</b>	<b>0.0000</b>	<b>4,511.5956</b>	<b>4,511.5956</b>	<b>0.1905</b>	<b>0.0292</b>	<b>4,517.0015</b>

## CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	67.23	-23.69	0.00	0.00	50.92	1.18	0.00	50.98	2.21	0.00	0.00	0.00	0.00	0.00	0.00

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1414	11.1414	0.0106	0.0000	11.4066
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1844</b>	<b>0.0711</b>	<b>6.1659</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1414</b>	<b>11.1414</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4066</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1414	11.1414	0.0106	0.0000	11.4066
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1844</b>	<b>0.0711</b>	<b>6.1659</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1414</b>	<b>11.1414</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4066</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2037	12/31/2036	5	0	
2	Site Preparation	Site Preparation	1/1/2037	1/13/2037	5	9	
3	Grading	Grading	1/14/2037	2/5/2037	5	17	
4	Building Construction	Building Construction	2/6/2037	11/12/2037	5	200	
5	Paving	Paving	11/13/2037	12/7/2037	5	17	
6	Architectural Coating	Architectural Coating	12/8/2037	12/30/2037	5	17	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

**Residential Indoor: 151,875; Residential Outdoor: 50,625; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	0	8.00	158	0.38

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911		4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>2.1483</b>	<b>10.1399</b>	<b>15.9731</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.2911</b>	<b>19.2411</b>	<b>10.0261</b>	<b>0.2911</b>	<b>10.3172</b>		<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.9500	0.0000	18.9500	10.0261	0.0000	10.0261			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.1889		4,414.4768
<b>Total</b>	<b>0.4656</b>	<b>2.0175</b>	<b>20.8690</b>	<b>0.0466</b>	<b>18.9500</b>	<b>0.0621</b>	<b>19.0121</b>	<b>10.0261</b>	<b>0.0621</b>	<b>10.0882</b>	<b>0.0000</b>	<b>4,409.7537</b>	<b>4,409.7537</b>	<b>0.1889</b>		<b>4,414.4768</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0142	0.2966	1.0100e-003	0.1479	3.9000e-004	0.1483	0.0392	3.5000e-004	0.0396		101.8419	101.8419	1.5600e-003	2.1600e-003	102.5247
<b>Total</b>	<b>0.0333</b>	<b>0.0142</b>	<b>0.2966</b>	<b>1.0100e-003</b>	<b>0.1479</b>	<b>3.9000e-004</b>	<b>0.1483</b>	<b>0.0392</b>	<b>3.5000e-004</b>	<b>0.0396</b>		<b>101.8419</b>	<b>101.8419</b>	<b>1.5600e-003</b>	<b>2.1600e-003</b>	<b>102.5247</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	1.4619	5.9823	14.3296	0.0363		0.1557	0.1557		0.1557	0.1557		3,439.720 1	3,439.720 1	0.1282		3,442.925 9
<b>Total</b>	<b>1.4619</b>	<b>5.9823</b>	<b>14.3296</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.1557</b>	<b>6.6768</b>	<b>3.3641</b>	<b>0.1557</b>	<b>3.5198</b>		<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1282</b>		<b>3,442.925 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5212	0.0000	6.5212	3.3641	0.0000	3.3641			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0363		0.0484	0.0484		0.0484	0.0484	0.0000	3,439.720 1	3,439.720 1	0.1282		3,442.925 9
<b>Total</b>	<b>0.3632</b>	<b>1.5737</b>	<b>17.7527</b>	<b>0.0363</b>	<b>6.5212</b>	<b>0.0484</b>	<b>6.5696</b>	<b>3.3641</b>	<b>0.0484</b>	<b>3.4125</b>	<b>0.0000</b>	<b>3,439.720 1</b>	<b>3,439.720 1</b>	<b>0.1282</b>		<b>3,442.925 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0278	0.0118	0.2472	8.4000e-004	0.1232	3.2000e-004	0.1235	0.0327	3.0000e-004	0.0330		84.8683	84.8683	1.3000e-003	1.8000e-003	85.4372
<b>Total</b>	<b>0.0278</b>	<b>0.0118</b>	<b>0.2472</b>	<b>8.4000e-004</b>	<b>0.1232</b>	<b>3.2000e-004</b>	<b>0.1235</b>	<b>0.0327</b>	<b>3.0000e-004</b>	<b>0.0330</b>		<b>84.8683</b>	<b>84.8683</b>	<b>1.3000e-003</b>	<b>1.8000e-003</b>	<b>85.4372</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>1.2168</b>	<b>7.1613</b>	<b>16.1178</b>	<b>0.0310</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0904</b>	<b>0.0904</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3637	0.1044	1.4900e-003	0.0540	1.8000e-003	0.0558	0.0156	1.7200e-003	0.0173		157.5428	157.5428	4.9000e-004	0.0227	164.3128
Worker	0.1000	0.0426	0.8899	3.0200e-003	0.4436	1.1600e-003	0.4448	0.1177	1.0600e-003	0.1187		305.5257	305.5257	4.6800e-003	6.4800e-003	307.5740
<b>Total</b>	<b>0.1093</b>	<b>0.4063</b>	<b>0.9942</b>	<b>4.5100e-003</b>	<b>0.4976</b>	<b>2.9600e-003</b>	<b>0.5006</b>	<b>0.1332</b>	<b>2.7800e-003</b>	<b>0.1360</b>		<b>463.0685</b>	<b>463.0685</b>	<b>5.1700e-003</b>	<b>0.0292</b>	<b>471.8868</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3899	2.9211	17.4603	0.0310		0.1401	0.1401		0.1401	0.1401	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
<b>Total</b>	<b>0.3899</b>	<b>2.9211</b>	<b>17.4603</b>	<b>0.0310</b>		<b>0.1401</b>	<b>0.1401</b>		<b>0.1401</b>	<b>0.1401</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1079</b>		<b>2,900.2448</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3637	0.1044	1.4900e-003	0.0540	1.8000e-003	0.0558	0.0156	1.7200e-003	0.0173		157.5428	157.5428	4.9000e-004	0.0227	164.3128
Worker	0.1000	0.0426	0.8899	3.0200e-003	0.4436	1.1600e-003	0.4448	0.1177	1.0600e-003	0.1187		305.5257	305.5257	4.6800e-003	6.4800e-003	307.5740
<b>Total</b>	<b>0.1093</b>	<b>0.4063</b>	<b>0.9942</b>	<b>4.5100e-003</b>	<b>0.4976</b>	<b>2.9600e-003</b>	<b>0.5006</b>	<b>0.1332</b>	<b>2.7800e-003</b>	<b>0.1360</b>		<b>463.0685</b>	<b>463.0685</b>	<b>5.1700e-003</b>	<b>0.0292</b>	<b>471.8868</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9893	4.7441	13.0737	0.0230		0.1540	0.1540		0.1540	0.1540		2,154.2603	2,154.2603	0.0885		2,156.4730
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9893</b>	<b>4.7441</b>	<b>13.0737</b>	<b>0.0230</b>		<b>0.1540</b>	<b>0.1540</b>		<b>0.1540</b>	<b>0.1540</b>		<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.0885</b>		<b>2,156.4730</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2194	0.9509	13.5323	0.0230		0.0293	0.0293		0.0293	0.0293	0.0000	2,154.2603	2,154.2603	0.0885		2,156.4730
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2194</b>	<b>0.9509</b>	<b>13.5323</b>	<b>0.0230</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0293</b>	<b>0.0293</b>	<b>0.0000</b>	<b>2,154.2603</b>	<b>2,154.2603</b>	<b>0.0885</b>		<b>2,156.4730</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0370	0.0158	0.3296	1.1200e-003	0.1643	4.3000e-004	0.1647	0.0436	3.9000e-004	0.0440		113.1577	113.1577	1.7300e-003	2.4000e-003	113.9163
<b>Total</b>	<b>0.0370</b>	<b>0.0158</b>	<b>0.3296</b>	<b>1.1200e-003</b>	<b>0.1643</b>	<b>4.3000e-004</b>	<b>0.1647</b>	<b>0.0436</b>	<b>3.9000e-004</b>	<b>0.0440</b>		<b>113.1577</b>	<b>113.1577</b>	<b>1.7300e-003</b>	<b>2.4000e-003</b>	<b>113.9163</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2037**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.5211					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>5.6390</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	8.6800e-003	0.1813	6.2000e-004	0.0904	2.4000e-004	0.0906	0.0240	2.2000e-004	0.0242		62.2367	62.2367	9.5000e-004	1.3200e-003	62.6540
<b>Total</b>	<b>0.0204</b>	<b>8.6800e-003</b>	<b>0.1813</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.4000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.2000e-004</b>	<b>0.0242</b>		<b>62.2367</b>	<b>62.2367</b>	<b>9.5000e-004</b>	<b>1.3200e-003</b>	<b>62.6540</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2037**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.5211					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
<b>Total</b>	<b>5.6390</b>	<b>0.7577</b>	<b>1.7943</b>	<b>2.9700e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0104</b>		<b>281.7081</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	8.6800e-003	0.1813	6.2000e-004	0.0904	2.4000e-004	0.0906	0.0240	2.2000e-004	0.0242		62.2367	62.2367	9.5000e-004	1.3200e-003	62.6540
<b>Total</b>	<b>0.0204</b>	<b>8.6800e-003</b>	<b>0.1813</b>	<b>6.2000e-004</b>	<b>0.0904</b>	<b>2.4000e-004</b>	<b>0.0906</b>	<b>0.0240</b>	<b>2.2000e-004</b>	<b>0.0242</b>		<b>62.2367</b>	<b>62.2367</b>	<b>9.5000e-004</b>	<b>1.3200e-003</b>	<b>62.6540</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987



CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1414	11.1414	0.0106	0.0000	11.4066
Unmitigated	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343	0.0000	11.1414	11.1414	0.0106	0.0000	11.4066

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343		11.1414	11.1414	0.0106		11.4066
<b>Total</b>	<b>0.1844</b>	<b>0.0711</b>	<b>6.1659</b>	<b>3.3000e-004</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1414</b>	<b>11.1414</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4066</b>

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1844	0.0711	6.1659	3.3000e-004		0.0343	0.0343		0.0343	0.0343		11.1414	11.1414	0.0106		11.4066
<b>Total</b>	<b>0.1844</b>	<b>0.0711</b>	<b>6.1659</b>	<b>3.3000e-004</b>		<b>0.0343</b>	<b>0.0343</b>		<b>0.0343</b>	<b>0.0343</b>	<b>0.0000</b>	<b>11.1414</b>	<b>11.1414</b>	<b>0.0106</b>	<b>0.0000</b>	<b>11.4066</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

CEDHSP Construction Year 15 Mitigated - El Dorado-Mountain County County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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# Operations Modeling

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	228.00	Dwelling Unit	14.25	228,000.00	652
Condo/Townhouse	156.00	Dwelling Unit	9.75	156,000.00	446
Single Family Housing	94.00	Dwelling Unit	30.52	169,200.00	269

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity</b>	75	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.
- Land Use -
- Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP
- Woodstoves -
- Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Energy Use -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	75
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00

tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	14,855,117.84	7,290,730.00
tblWater	IndoorWaterUseRate	10,164,028.00	12,470,986.00
tblWater	IndoorWaterUseRate	6,124,478.41	10,407,677.00
tblWater	OutdoorWaterUseRate	9,365,182.99	6,141,648.00
tblWater	OutdoorWaterUseRate	6,407,756.78	10,505,450.00
tblWater	OutdoorWaterUseRate	3,861,084.21	8,767,337.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	749.2855	14.7393	942.3242	1.6381		126.8269	126.8269		126.8269	126.8269	13,274.8	5,638.30	18,913.1	12.3182	1.0442	19,532.3
Energy	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598		2,522.35	2,522.35	0.0484	0.0462	2,537.34
Mobile	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8
<b>Total</b>	<b>760.9463</b>	<b>24.9342</b>	<b>1,009.691</b>	<b>1.7698</b>	<b>13.3466</b>	<b>127.0862</b>	<b>140.4328</b>	<b>3.5603</b>	<b>127.0799</b>	<b>130.6402</b>	<b>13,274.8</b>	<b>20,262.8</b>	<b>33,537.7</b>	<b>13.2547</b>	<b>1.7095</b>	<b>34,378.5</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	749.2855	14.7393	942.3242	1.6381		126.8269	126.8269		126.8269	126.8269	13,274.8	5,638.30	18,913.1	12.3182	1.0442	19,532.3
Energy	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598		2,522.35	2,522.35	0.0484	0.0462	2,537.34
Mobile	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8
<b>Total</b>	<b>760.9463</b>	<b>24.9342</b>	<b>1,009.691</b>	<b>1.7698</b>	<b>13.3466</b>	<b>127.0862</b>	<b>140.4328</b>	<b>3.5603</b>	<b>127.0799</b>	<b>130.6402</b>	<b>13,274.8</b>	<b>20,262.8</b>	<b>33,537.7</b>	<b>13.2547</b>	<b>1.7095</b>	<b>34,378.5</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
Percent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8
Unmitigated	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,668.96	1,855.92	1431.84	3,100,363	3,100,363
Condo/Townhouse	1,141.92	1,269.84	979.68	1,437,217	1,437,217
Single Family Housing	887.36	896.76	803.70	1,230,649	1,230,649



Total	3,698.24	4,022.52	3,215.22	5,768,228	5,768,228
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### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Condo/Townhouse	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Single Family Housing	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598	2,522.35	2,522.35	0.0484	0.0462	2,537.34	
NaturalGas	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598	2,522.35	2,522.35	0.0484	0.0462	2,537.34	

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
Apartments	7281.24	0.0785	0.6710	0.2855	4.2800e-		0.0543	0.0543		0.0543	0.0543		856.6164	856.6164	0.0164	0.0157	861.706
Condo/Townh	8065.85	0.0870	0.7433	0.3163	4.7400e-		0.0601	0.0601		0.0601	0.0601		948.9230	948.9230	0.0182	0.0174	954.562
Single Family	6092.95	0.0657	0.5615	0.2389	3.5800e-		0.0454	0.0454		0.0454	0.0454		716.8181	716.8181	0.0137	0.0131	721.077
<b>Total</b>		<b>0.2312</b>	<b>1.9759</b>	<b>0.8408</b>	<b>0.0126</b>		<b>0.1598</b>	<b>0.1598</b>		<b>0.1598</b>	<b>0.1598</b>		<b>2,522.35</b>	<b>2,522.35</b>	<b>0.0484</b>	<b>0.0462</b>	<b>2,537.34</b>

#### Mitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
Apartments	7281.24	0.0785	0.6710	0.2855	4.2800e-		0.0543	0.0543		0.0543	0.0543		856.6164	856.6164	0.0164	0.0157	861.706
Condo/Townh	8065.85	0.0870	0.7433	0.3163	4.7400e-		0.0601	0.0601		0.0601	0.0601		948.9230	948.9230	0.0182	0.0174	954.562
Single Family	6092.95	0.0657	0.5615	0.2389	3.5800e-		0.0454	0.0454		0.0454	0.0454		716.8181	716.8181	0.0137	0.0131	721.077
<b>Total</b>		<b>0.2312</b>	<b>1.9759</b>	<b>0.8408</b>	<b>0.0126</b>		<b>0.1598</b>	<b>0.1598</b>		<b>0.1598</b>	<b>0.1598</b>		<b>2,522.35</b>	<b>2,522.35</b>	<b>0.0484</b>	<b>0.0462</b>	<b>2,537.34</b>

### 6.0 Area Detail

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	749.2855	14.7393	942.3242	1.6381		126.8269	126.8269		126.8269	126.8269	13,274.8	5,638.30	18,913.1	12.3182	1.0442	19,532.3
Unmitigated	749.2855	14.7393	942.3242	1.6381		126.8269	126.8269		126.8269	126.8269	13,274.8	5,638.30	18,913.1	12.3182	1.0442	19,532.3

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural	4.7418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer	11.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	731.5288	14.2859	902.9928	1.6360		126.6082	126.6082		126.6082	126.6082	13,274.8	5,567.29	18,842.1	12.2505	1.0442	19,459.6
Landscaping	1.1764	0.4534	39.3314	2.0800e-		0.2187	0.2187		0.2187	0.2187		71.0080	71.0080	0.0677		72.6993
<b>Total</b>	<b>749.2855</b>	<b>14.7393</b>	<b>942.3242</b>	<b>1.6381</b>		<b>126.8269</b>	<b>126.8269</b>		<b>126.8269</b>	<b>126.8269</b>	<b>13,274.8</b>	<b>5,638.30</b>	<b>18,913.1</b>	<b>12.3182</b>	<b>1.0442</b>	<b>19,532.3</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural	4.7418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer	11.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	731.5288	14.2859	902.9928	1.6360		126.6082	126.6082		126.6082	126.6082	13,274.8	5,567.29	18,842.1	12.2505	1.0442	19,459.6
Landscaping	1.1764	0.4534	39.3314	2.0800e-		0.2187	0.2187		0.2187	0.2187		71.0080	71.0080	0.0677		72.6993
<b>Total</b>	<b>749.2855</b>	<b>14.7393</b>	<b>942.3242</b>	<b>1.6381</b>		<b>126.8269</b>	<b>126.8269</b>		<b>126.8269</b>	<b>126.8269</b>	<b>13,274.8</b>	<b>5,638.30</b>	<b>18,913.1</b>	<b>12.3182</b>	<b>1.0442</b>	<b>19,532.3</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	228.00	Dwelling Unit	14.25	228,000.00	652
Condo/Townhouse	156.00	Dwelling Unit	9.75	156,000.00	446
Single Family Housing	94.00	Dwelling Unit	30.52	169,200.00	269

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity</b>	75	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

Land Use -

Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP

Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place

Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36)

Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51

Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses

Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Energy Use -

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	125.40	205.20
tblFireplaces	NumberGas	85.80	140.40
tblFireplaces	NumberGas	51.70	84.60
tblFireplaces	NumberWood	79.80	0.00
tblFireplaces	NumberWood	54.60	0.00
tblFireplaces	NumberWood	32.90	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	75
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	HO_TL	7.50	4.60



#### 4.0 Operational Detail - Mobile

##### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8
Unmitigated	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8

##### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,668.96	1,855.92	1431.84	3,100,363	3,100,363
Condo/Townhouse	1,141.92	1,269.84	979.68	1,437,217	1,437,217
Single Family Housing	887.36	896.76	803.70	1,230,649	1,230,649
Total	3,698.24	4,022.52	3,215.22	5,768,228	5,768,228

##### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

##### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Condo/Townhouse	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Single Family Housing	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367

#### 5.0 Energy Detail

Historical Energy Use: N

##### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598		2,522.35	2,522.35	0.0484	0.0462	2,537.34
NaturalGas	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598		2,522.35	2,522.35	0.0484	0.0462	2,537.34

##### 5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7281.24	0.0785	0.6710	0.2855	4.2800e-		0.0543	0.0543		0.0543	0.0543		856.616	856.6164	0.0164	0.0157	861.706
Condo/Townhouse	8065.85	0.0870	0.7433	0.3163	4.7400e-		0.0601	0.0601		0.0601	0.0601		948.923	948.9230	0.0182	0.0174	954.562
Single Family Housing	6092.95	0.0657	0.5615	0.2389	3.5800e-		0.0454	0.0454		0.0454	0.0454		716.818	716.8181	0.0137	0.0131	721.077
<b>Total</b>		<b>0.2312</b>	<b>1.9759</b>	<b>0.8408</b>	<b>0.0126</b>		<b>0.1598</b>	<b>0.1598</b>		<b>0.1598</b>	<b>0.1598</b>		<b>2,522.35</b>	<b>2,522.35</b>	<b>0.0484</b>	<b>0.0462</b>	<b>2,537.34</b>

**Mitigated**

	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7.28124	0.0785	0.6710	0.2855	4.2800e-		0.0543	0.0543		0.0543	0.0543		856.616	856.6164	0.0164	0.0157	861.706
Condo/Townhouse	8.06585	0.0870	0.7433	0.3163	4.7400e-		0.0601	0.0601		0.0601	0.0601		948.923	948.9230	0.0182	0.0174	954.562
Single Family Housing	6.09295	0.0657	0.5615	0.2389	3.5800e-		0.0454	0.0454		0.0454	0.0454		716.818	716.8181	0.0137	0.0131	721.077
<b>Total</b>		<b>0.2312</b>	<b>1.9759</b>	<b>0.8408</b>	<b>0.0126</b>		<b>0.1598</b>	<b>0.1598</b>		<b>0.1598</b>	<b>0.1598</b>		<b>2,522.35</b>	<b>2,522.35</b>	<b>0.0484</b>	<b>0.0462</b>	<b>2,537.34</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95
Unmitigated	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.7418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8351	7.1363	3.0367	0.0456		0.5770	0.5770		0.5770	0.5770	0.0000	9,110.11	9,110.11	0.1746	0.1670	9,164.25
Landscaping	1.1764	0.4534	39.3314	2.0800e-		0.2187	0.2187		0.2187	0.2187		71.0080	71.0080	0.0677		72.6993
<b>Total</b>	<b>18.5918</b>	<b>7.5897</b>	<b>42.3681</b>	<b>0.0476</b>		<b>0.7957</b>	<b>0.7957</b>		<b>0.7957</b>	<b>0.7957</b>	<b>0.0000</b>	<b>9,181.12</b>	<b>9,181.12</b>	<b>0.2423</b>	<b>0.1670</b>	<b>9,236.95</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.7418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8351	7.1363	3.0367	0.0456		0.5770	0.5770		0.5770	0.5770	0.0000	9,110.11	9,110.11	0.1746	0.1670	9,164.25
Landscaping	1.1764	0.4534	39.3314	2.0800e-		0.2187	0.2187		0.2187	0.2187		71.0080	71.0080	0.0677		72.6993
<b>Total</b>	<b>18.5918</b>	<b>7.5897</b>	<b>42.3681</b>	<b>0.0476</b>		<b>0.7957</b>	<b>0.7957</b>		<b>0.7957</b>	<b>0.7957</b>	<b>0.0000</b>	<b>9,181.12</b>	<b>9,181.12</b>	<b>0.2423</b>	<b>0.1670</b>	<b>9,236.95</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
EI Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	228.00	Dwelling Unit	14.25	228,000.00	652
Condo/Townhouse	156.00	Dwelling Unit	9.75	156,000.00	446
Single Family Housing	94.00	Dwelling Unit	30.52	169,200.00	269

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	75	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjusted as per WSA data  
 Area Mitigation -  
 Energy Mitigation -  
 Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	125.40	205.20
tblFireplaces	NumberGas	85.80	140.40
tblFireplaces	NumberGas	51.70	84.60
tblFireplaces	NumberWood	79.80	0.00
tblFireplaces	NumberWood	54.60	0.00
tblFireplaces	NumberWood	32.90	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	75
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50

tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	14,855,117.84	5,832,584.00
tblWater	IndoorWaterUseRate	10,164,028.00	9,976,789.00
tblWater	IndoorWaterUseRate	6,124,478.41	8,326,142.00
tblWater	OutdoorWaterUseRate	9,365,182.99	6,141,648.00
tblWater	OutdoorWaterUseRate	6,407,756.78	10,505,450.00
tblWater	OutdoorWaterUseRate	3,861,084.21	8,767,337.00
tblWoodstoves	NumberCatalytic	11.40	0.00
tblWoodstoves	NumberCatalytic	7.80	0.00
tblWoodstoves	NumberCatalytic	4.70	0.00
tblWoodstoves	NumberNoncatalytic	11.40	0.00
tblWoodstoves	NumberNoncatalytic	7.80	0.00
tblWoodstoves	NumberNoncatalytic	4.70	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95
Energy	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598		2,522.35	2,522.35	0.0484	0.0462	2,537.34
Mobile	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8
<b>Total</b>	<b>30.2526</b>	<b>17.7846</b>	<b>109.7350</b>	<b>0.1794</b>	<b>13.3466</b>	<b>1.0549</b>	<b>14.4016</b>	<b>3.5603</b>	<b>1.0487</b>	<b>4.6090</b>	<b>0.0000</b>	<b>23,805.6</b>	<b>23,805.6</b>	<b>1.1788</b>	<b>0.8323</b>	<b>24,083.1</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95
Energy	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598		2,522.35	2,522.35	0.0484	0.0462	2,537.34
Mobile	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8
<b>Total</b>	<b>30.2526</b>	<b>17.7846</b>	<b>109.7350</b>	<b>0.1794</b>	<b>13.3466</b>	<b>1.0549</b>	<b>14.4016</b>	<b>3.5603</b>	<b>1.0487</b>	<b>4.6090</b>	<b>0.0000</b>	<b>23,805.6</b>	<b>23,805.6</b>	<b>1.1788</b>	<b>0.8323</b>	<b>24,083.1</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8



Unmitigated	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536	12,102.1	12,102.1	0.8882	0.6191	12,308.8
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**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,668.96	1,855.92	1431.84	3,100,363	3,100,363
Condo/Townhouse	1,141.92	1,269.84	979.68	1,437,217	1,437,217
Single Family Housing	887.36	896.76	803.70	1,230,649	1,230,649
<b>Total</b>	<b>3,698.24</b>	<b>4,022.52</b>	<b>3,215.22</b>	<b>5,768,228</b>	<b>5,768,228</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Condo/Townhouse	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Single Family Housing	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

- Install High Efficiency Lighting
- Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598		2,522.35	2,522.35	0.0484	0.0462	2,537.34
NaturalGas Unmitigated	0.2312	1.9759	0.8408	0.0126		0.1598	0.1598		0.1598	0.1598		2,522.35	2,522.35	0.0484	0.0462	2,537.34

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7281.24	0.0785	0.6710	0.2855	4.2800e-		0.0543	0.0543		0.0543	0.0543		856.616	856.6164	0.0164	0.0157	861.706
Condo/Townhouse	8065.85	0.0870	0.7433	0.3163	4.7400e-		0.0601	0.0601		0.0601	0.0601		948.923	948.9230	0.0182	0.0174	954.562
Single Family Housing	6092.95	0.0657	0.5615	0.2389	3.5800e-		0.0454	0.0454		0.0454	0.0454		716.818	716.8181	0.0137	0.0131	721.077

<b>Total</b>		<b>0.2312</b>	<b>1.9759</b>	<b>0.8408</b>	<b>0.0126</b>		<b>0.1598</b>	<b>0.1598</b>		<b>0.1598</b>	<b>0.1598</b>		<b>2,522.35</b>	<b>2,522.35</b>	<b>0.0484</b>	<b>0.0462</b>	<b>2,537.34</b>
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**Mitigated**

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e	
		lb/day										lb/day						
Apartments Low Rise	7.28124	0.0785	0.6710	0.2855	4.2800e-		0.0543	0.0543		0.0543	0.0543			856.616	856.6164	0.0164	0.0157	861.706
Condo/Townhouse	8.06585	0.0870	0.7433	0.3163	4.7400e-		0.0601	0.0601		0.0601	0.0601			948.923	948.9230	0.0182	0.0174	954.562
Single Family Housing	6.09295	0.0657	0.5615	0.2389	3.5800e-		0.0454	0.0454		0.0454	0.0454			716.818	716.8181	0.0137	0.0131	721.077
<b>Total</b>		<b>0.2312</b>	<b>1.9759</b>	<b>0.8408</b>	<b>0.0126</b>		<b>0.1598</b>	<b>0.1598</b>		<b>0.1598</b>	<b>0.1598</b>			<b>2,522.35</b>	<b>2,522.35</b>	<b>0.0484</b>	<b>0.0462</b>	<b>2,537.34</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95
Unmitigated	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95

**6.2 Area by SubCategory**

**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	4.7418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8351	7.1363	3.0367	0.0456		0.5770	0.5770		0.5770	0.5770	0.0000	9,110.11	9,110.11	0.1746	0.1670	9,164.25
Landscaping	1.1764	0.4534	39.3314	2.0800e-		0.2187	0.2187		0.2187	0.2187		71.0080	71.0080	0.0677		72.6993
<b>Total</b>	<b>18.5918</b>	<b>7.5897</b>	<b>42.3681</b>	<b>0.0476</b>		<b>0.7957</b>	<b>0.7957</b>		<b>0.7957</b>	<b>0.7957</b>	<b>0.0000</b>	<b>9,181.12</b>	<b>9,181.12</b>	<b>0.2423</b>	<b>0.1670</b>	<b>9,236.95</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	4.7418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8351	7.1363	3.0367	0.0456		0.5770	0.5770		0.5770	0.5770	0.0000	9,110.11	9,110.11	0.1746	0.1670	9,164.25
Landscaping	1.1764	0.4534	39.3314	2.0800e-		0.2187	0.2187		0.2187	0.2187		71.0080	71.0080	0.0677		72.6993
<b>Total</b>	<b>18.5918</b>	<b>7.5897</b>	<b>42.3681</b>	<b>0.0476</b>		<b>0.7957</b>	<b>0.7957</b>		<b>0.7957</b>	<b>0.7957</b>	<b>0.0000</b>	<b>9,181.12</b>	<b>9,181.12</b>	<b>0.2423</b>	<b>0.1670</b>	<b>9,236.95</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	228.00	Dwelling Unit	14.25	228,000.00	652
Condo/Townhouse	156.00	Dwelling Unit	9.75	156,000.00	446
Single Family Housing	94.00	Dwelling Unit	30.52	169,200.00	269

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWahr)</b>	75	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

Land Use -

Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP

Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place

Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36)

Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51

Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses

Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	3,172.76	3,960.27
tblEnergyUse	NT24E	3,795.01	4,582.52
tblEnergyUse	NT24E	6,155.97	6,943.48
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	108.87	2,737.64
tblEnergyUse	T24E	80.14	4,823.70
tblEnergyUse	T24E	142.58	6,289.07
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	16,185.01	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00

tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	125.40	205.20
tblFireplaces	NumberGas	85.80	140.40
tblFireplaces	NumberGas	51.70	84.60
tblFireplaces	NumberWood	79.80	0.00
tblFireplaces	NumberWood	54.60	0.00
tblFireplaces	NumberWood	32.90	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	75
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	14,855,117.84	5,832,584.00
tblWater	IndoorWaterUseRate	10,164,028.00	9,976,789.00
tblWater	IndoorWaterUseRate	6,124,478.41	8,326,142.00
tblWater	OutdoorWaterUseRate	9,365,182.99	6,141,648.00
tblWater	OutdoorWaterUseRate	6,407,756.78	10,505,450.00
tblWater	OutdoorWaterUseRate	3,861,084.21	8,767,337.00
tblWoodstoves	NumberCatalytic	11.40	0.00
tblWoodstoves	NumberCatalytic	7.80	0.00
tblWoodstoves	NumberCatalytic	4.70	0.00
tblWoodstoves	NumberNoncatalytic	11.40	0.00
tblWoodstoves	NumberNoncatalytic	7.80	0.00
tblWoodstoves	NumberNoncatalytic	4.70	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8
<b>Total</b>	<b>30.0214</b>	<b>15.8087</b>	<b>108.8942</b>	<b>0.1668</b>	<b>13.3466</b>	<b>0.8952</b>	<b>14.2418</b>	<b>3.5603</b>	<b>0.8889</b>	<b>4.4492</b>	<b>0.0000</b>	<b>21,283.3</b>	<b>21,283.3</b>	<b>1.1305</b>	<b>0.7861</b>	<b>21,545.8</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95

Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12.102.1	12.102.1	0.8882	0.6191	12,308.8
<b>Total</b>	<b>30.0214</b>	<b>15.8087</b>	<b>108.8942</b>	<b>0.1668</b>	<b>13.3466</b>	<b>0.8952</b>	<b>14.2418</b>	<b>3.5603</b>	<b>0.8889</b>	<b>4.4492</b>	<b>0.0000</b>	<b>21,283.3</b>	<b>21,283.3</b>	<b>1.1305</b>	<b>0.7861</b>	<b>21,545.8</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8
Unmitigated	11.4296	8.2190	66.5261	0.1191	13.3466	0.0995	13.4461	3.5603	0.0933	3.6536		12,102.1	12,102.1	0.8882	0.6191	12,308.8

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT		Annual VMT	
Apartments Low Rise	1,668.96	1,855.92	1431.84	3,100,363		3,100,363	
Condo/Townhouse	1,141.92	1,269.84	979.68	1,437,217		1,437,217	
Single Family Housing	887.36	896.76	803.70	1,230,649		1,230,649	
<b>Total</b>	<b>3,698.24</b>	<b>4,022.52</b>	<b>3,215.22</b>	<b>5,768,228</b>		<b>5,768,228</b>	

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Condo/Townhouse	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Single Family Housing	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					

NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas  
Unmitigated**

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		lb/day										lb/day					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95
Unmitigated	18.5918	7.5897	42.3681	0.0476		0.7957	0.7957		0.7957	0.7957	0.0000	9,181.12	9,181.12	0.2423	0.1670	9,236.95

**6.2 Area by SubCategory**

**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	4.7418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8351	7.1363	3.0367	0.0456		0.5770	0.5770		0.5770	0.5770	0.0000	9,110.11	9,110.11	0.1746	0.1670	9,164.25
Landscaping	1.1764	0.4534	39.3314	2.0800e-		0.2187	0.2187		0.2187	0.2187		71.0080	71.0080	0.0677		72.6993
<b>Total</b>	<b>18.5918</b>	<b>7.5897</b>	<b>42.3681</b>	<b>0.0476</b>		<b>0.7957</b>	<b>0.7957</b>		<b>0.7957</b>	<b>0.7957</b>	<b>0.0000</b>	<b>9,181.12</b>	<b>9,181.12</b>	<b>0.2423</b>	<b>0.1670</b>	<b>9,236.95</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	4.7418					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.8385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8351	7.1363	3.0367	0.0456		0.5770	0.5770		0.5770	0.5770	0.0000	9,110.11	9,110.11	0.1746	0.1670	9,164.25
Landscaping	1.1764	0.4534	39.3314	2.0800e-		0.2187	0.2187		0.2187	0.2187		71.0080	71.0080	0.0677		72.6993
<b>Total</b>	<b>18.5918</b>	<b>7.5897</b>	<b>42.3681</b>	<b>0.0476</b>		<b>0.7957</b>	<b>0.7957</b>		<b>0.7957</b>	<b>0.7957</b>	<b>0.0000</b>	<b>9,181.12</b>	<b>9,181.12</b>	<b>0.2423</b>	<b>0.1670</b>	<b>9,236.95</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

Urbanization Urban      Wind Speed (m/s) 2.7      Precipitation Freq (Days) 70  
 Climate Zone 2      Operational Year 2040

Utility Company Pacific Gas and Electric Company

CO2 Intensity (lb/MWhr) 25      CH4 Intensity 0      N2O Intensity 0

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.
- Land Use -
- Construction Phase - Operation run only
- Off-road Equipment - Operation run only
- Trips and VMT - Operation run only
- On-road Fugitive Dust - Operation run only
- Demolition - Operation run only
- Grading - Operation run only
- Architectural Coating - Operation run only
- Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP
- Woodstoves -
- Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36)
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	25
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50

tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	16,947,750.00
tblWater	IndoorWaterUseRate	20,197,747.94	24,782,088.00
tblWater	IndoorWaterUseRate	9,932,984.29	4,311,275.00
tblWater	IndoorWaterUseRate	10,424,644.10	17,715,195.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day											lb/day				
Area	1,568.08	30.8350	1,971.25	3.4269		265.3283	265.3283		265.3283	265.3283	27,771.7	11,795.6	39,567.3	25.7701	2.1845	40,862.5
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
<b>Total</b>	<b>1,589.39</b>	<b>48.1936</b>	<b>2,108.02</b>	<b>3.7090</b>	<b>33.3827</b>	<b>265.8021</b>	<b>299.1847</b>	<b>8.8953</b>	<b>265.7933</b>	<b>274.6886</b>	<b>27,771.7</b>	<b>43,074.5</b>	<b>70,846.2</b>	<b>27.5505</b>	<b>3.5445</b>	<b>72,591.2</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day											lb/day				
Area	1,568.08	30.8350	1,971.25	3.4269		265.3283	265.3283		265.3283	265.3283	27,771.7	11,795.6	39,567.3	25.7701	2.1845	40,862.5
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
<b>Total</b>	<b>1,589.39</b>	<b>48.1936</b>	<b>2,108.02</b>	<b>3.7090</b>	<b>33.3827</b>	<b>265.8021</b>	<b>299.1847</b>	<b>8.8953</b>	<b>265.7933</b>	<b>274.6886</b>	<b>27,771.7</b>	<b>43,074.5</b>	<b>70,846.2</b>	<b>27.5505</b>	<b>3.5445</b>	<b>72,591.2</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**



Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
Unmitigated	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
Total	9,370.68	8,395.36	6,678.24	13,914,803	13,914,803

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
City Park	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Condo/Townhouse	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Government (Civic Center)	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Single Family Housing	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
NaturalGas Unmitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16925.7	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16028.3	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic Center)	2232.88	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

**Mitigated**

	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16.9257	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16.0283	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic Center)	2.23288	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10.371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,568.08	30.8350	1,971.25	3.4269		265.3283	265.3283		265.3283	265.3283	27,771.7	11,795.6	39,567.3	25.7701	2.1845	40,862.5
Unmitigated	1,568.08	30.8350	1,971.25	3.4269		265.3283	265.3283		265.3283	265.3283	27,771.7	11,795.6	39,567.3	25.7701	2.1845	40,862.5

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,530.39	29.8869	1,889.10	3.4225		264.8707	264.8707		264.8707	264.8707	27,771.7	11,647.0	39,418.7	25.6287	2.1845	40,710.4
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>1,568.08</b>	<b>30.8350</b>	<b>1,971.25</b>	<b>3.4269</b>		<b>265.3283</b>	<b>265.3283</b>		<b>265.3283</b>	<b>265.3283</b>	<b>27,771.7</b>	<b>11,795.6</b>	<b>39,567.3</b>	<b>25.7701</b>	<b>2.1845</b>	<b>40,862.5</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,530.39	29.8869	1,889.10	3.4225		264.8707	264.8707		264.8707	264.8707	27,771.7	11,647.0	39,418.7	25.6287	2.1845	40,710.4
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>1,568.08</b>	<b>30.8350</b>	<b>1,971.25</b>	<b>3.4269</b>		<b>265.3283</b>	<b>265.3283</b>		<b>265.3283</b>	<b>265.3283</b>	<b>27,771.7</b>	<b>11,795.6</b>	<b>39,567.3</b>	<b>25.7701</b>	<b>2.1845</b>	<b>40,862.5</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	25	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36)  
 Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51  
 Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses  
 Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)  
 Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00

tblFireplaces	NumberGas	88.00	144.00
tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	25
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	4,311,275.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**  
**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
<b>Total</b>	<b>60.7788</b>	<b>33.5347</b>	<b>225.3991</b>	<b>0.3836</b>	<b>33.3827</b>	<b>2.1626</b>	<b>35.5452</b>	<b>8.8953</b>	<b>2.1538</b>	<b>11.0490</b>	<b>0.0000</b>	<b>50,867.4</b>	<b>50,867.4</b>	<b>2.2944</b>	<b>1.7165</b>	<b>51,436.3</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
<b>Total</b>	<b>60.7788</b>	<b>33.5347</b>	<b>225.3991</b>	<b>0.3836</b>	<b>33.3827</b>	<b>2.1626</b>	<b>35.5452</b>	<b>8.8953</b>	<b>2.1538</b>	<b>11.0490</b>	<b>0.0000</b>	<b>50,867.4</b>	<b>50,867.4</b>	<b>2.2944</b>	<b>1.7165</b>	<b>51,436.3</b>

Percent Reduction	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
Unmitigated	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
City Park	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Condo/Townhouse	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

Government (Civic Center)	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Single Family Housing	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
NaturalGas Mitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
NaturalGas Unmitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59

### 5.2 Energy by Land Use - NaturalGas Unmitigated

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		lb/day											lb/day				
Apartments Low Rise	16925.7	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16028.3	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic Center)	2232.88	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

### Mitigated

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		lb/day											lb/day				
Apartments Low Rise	16.9257	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16.0283	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic Center)	2.23288	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10.371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				

Mitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Unmitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6

**6.2 Area by SubCategory**  
**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	25	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36) + 30% reduction in non-residential indoor water use (just for gov/civic land  
 Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51  
 Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses  
 Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00



tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	25
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	3,017,893.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
<b>Total</b>	<b>60.7788</b>	<b>33.5347</b>	<b>225.3991</b>	<b>0.3836</b>	<b>33.3827</b>	<b>2.1626</b>	<b>35.5452</b>	<b>8.8953</b>	<b>2.1538</b>	<b>11.0490</b>	<b>0.0000</b>	<b>50,867.4</b>	<b>50,867.4</b>	<b>2.2944</b>	<b>1.7165</b>	<b>51,436.3</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
<b>Total</b>	<b>60.7788</b>	<b>33.5347</b>	<b>225.3991</b>	<b>0.3836</b>	<b>33.3827</b>	<b>2.1626</b>	<b>35.5452</b>	<b>8.8953</b>	<b>2.1538</b>	<b>11.0490</b>	<b>0.0000</b>	<b>50,867.4</b>	<b>50,867.4</b>	<b>2.2944</b>	<b>1.7165</b>	<b>51,436.3</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
Unmitigated	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1,946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1,368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
City Park	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Condo/Townhouse	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Government (Civic Center)	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

Single Family Housing	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting  
 Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
NaturalGas Unmitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16925.7	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16028.3	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic Center)	2232.88	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

**Mitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16.9257	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16.0283	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic Center)	2.23288	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10.371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6

Unmitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
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**6.2 Area by SubCategory**

**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	25	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

Land Use -

Construction Phase - Operation run only

Off-road Equipment - Operation run only

Trips and VMT - Operation run only

On-road Fugitive Dust - Operation run only

Demolition - Operation run only

Grading - Operation run only

Architectural Coating - Operation run only

Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP

Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place

Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36) + 30% reduction in non-residential indoor water use (just for gov/civic land use) (Mitigation

Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51

Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses

Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	3,172.76	3,960.27
tblEnergyUse	NT24E	3,795.01	4,582.52
tblEnergyUse	NT24E	3.62	3.76
tblEnergyUse	NT24E	6,155.97	6,943.48
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	108.87	2,737.64

tblEnergyUse	T24E	80.14	4,823.70
tblEnergyUse	T24E	2.87	7.51
tblEnergyUse	T24E	142.58	6,289.07
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	16,185.01	0.00
tblEnergyUse	T24NG	15.83	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00
tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	25
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	3,017,893.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
<b>Total</b>	<b>60.2875</b>	<b>29.3231</b>	<b>223.5162</b>	<b>0.3568</b>	<b>33.3827</b>	<b>1.8231</b>	<b>35.2058</b>	<b>8.8953</b>	<b>1.8143</b>	<b>10.7096</b>	<b>0.0000</b>	<b>45,507.7</b>	<b>45,507.7</b>	<b>2.1917</b>	<b>1.6182</b>	<b>46,044.7</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
<b>Total</b>	<b>60.2875</b>	<b>29.3231</b>	<b>223.5162</b>	<b>0.3568</b>	<b>33.3827</b>	<b>1.8231</b>	<b>35.2058</b>	<b>8.8953</b>	<b>1.8143</b>	<b>10.7096</b>	<b>0.0000</b>	<b>45,507.7</b>	<b>45,507.7</b>	<b>2.1917</b>	<b>1.6182</b>	<b>46,044.7</b>

Percent Reduction	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1
Unmitigated	20.8168	13.1470	134.8907	0.2553	33.3827	0.1344	33.5170	8.8953	0.1256	9.0209		25,919.1	25,919.1	1.6776	1.2618	26,337.1

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated
	Weekday	Saturday	Sunday	Annual VMT		Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984		7,206,984
City Park	12.48	31.36	35.04	25,083		25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007		2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007		1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721		2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>		<b>13,914,803</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
City Park	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Condo/Townhouse	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Government (Civic Center)	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Single Family Housing	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
 Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas  
Unmitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day											lb/day				
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day											lb/day				
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths



Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Unmitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6

## 6.2 Area by SubCategory

### Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.5667	0.1414		152.1026
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

### Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.5667	0.1414		152.1026
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2045
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

- Land Use -
- Construction Phase - Operation run only
- Off-road Equipment - Operation run only
- Trips and VMT - Operation run only
- On-road Fugitive Dust - Operation run only
- Demolition - Operation run only
- Grading - Operation run only
- Architectural Coating - Operation run only
- Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP
- Woodstoves -
- Water And Wastewater - Adjusted Water Consumption per WSA + 13% reduction in outdoor
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Energy Use -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	0
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40

tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	16,947,750.00
tblWater	IndoorWaterUseRate	20,197,747.94	24,782,088.00
tblWater	IndoorWaterUseRate	9,932,984.29	4,311,275.00
tblWater	IndoorWaterUseRate	10,424,644.10	17,715,195.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day											lb/day				
Area	1,568.08	30.8350	1,971.251	3.4269		265.3283	265.3283		265.3283	265.3283	27,771.7	11,795.6	39,567.3	25.7701	2.1845	40,862.5
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
<b>Total</b>	<b>1,587.56</b>	<b>46.9846</b>	<b>2,101.439</b>	<b>3.7014</b>	<b>33.3693</b>	<b>265.7811</b>	<b>299.1504</b>	<b>8.8896</b>	<b>265.7735</b>	<b>274.6632</b>	<b>27,771.7</b>	<b>42,295.2</b>	<b>70,067.0</b>	<b>27.4285</b>	<b>3.4966</b>	<b>71,794.7</b>

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day											lb/day				
Area	1,568.08	30.8350	1,971.251	3.4269		265.3283	265.3283		265.3283	265.3283	27,771.7	11,795.6	39,567.3	25.7701	2.1845	40,862.5
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
<b>Total</b>	<b>1,587.56</b>	<b>46.9846</b>	<b>2,101.439</b>	<b>3.7014</b>	<b>33.3693</b>	<b>265.7811</b>	<b>299.1504</b>	<b>8.8896</b>	<b>265.7735</b>	<b>274.6632</b>	<b>27,771.7</b>	<b>42,295.2</b>	<b>70,067.0</b>	<b>27.4285</b>	<b>3.4966</b>	<b>71,794.7</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day											lb/day				
Mitigated	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
Unmitigated	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
City Park	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Condo/Townhouse	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Government (Civic Center)	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Single Family Housing	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
NaturalGas Unmitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16925.7	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16028.3	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic Center)	2232.88	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36

<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>
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**Mitigated**

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		lb/day										lb/day					
Apartments Low Rise	16.9257	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16.0283	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic Center)	2.23288	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10.371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	1,568.08	30.8350	1,971.251	3.4269		265.3283	265.3283		265.3283	265.3283	27,771.7	11,795.6	39,567.3	25.7701	2.1845	40,862.5
Unmitigated	1,568.08	30.8350	1,971.251	3.4269		265.3283	265.3283		265.3283	265.3283	27,771.7	11,795.6	39,567.3	25.7701	2.1845	40,862.5

**6.2 Area by SubCategory**

**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,530.39	29.8869	1,889.106	3.4225		264.8707	264.8707		264.8707	264.8707	27,771.7	11,647.0	39,418.7	25.6287	2.1845	40,710.4
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>1,568.08</b>	<b>30.8350</b>	<b>1,971.251</b>	<b>3.4269</b>		<b>265.3283</b>	<b>265.3283</b>		<b>265.3283</b>	<b>265.3283</b>	<b>27,771.7</b>	<b>11,795.6</b>	<b>39,567.3</b>	<b>25.7701</b>	<b>2.1845</b>	<b>40,862.5</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,530.39	29.8869	1,889.106	3.4225		264.8707	264.8707		264.8707	264.8707	27,771.7	11,647.0	39,418.7	25.6287	2.1845	40,710.4
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>1,568.08</b>	<b>30.8350</b>	<b>1,971.251</b>	<b>3.4269</b>		<b>265.3283</b>	<b>265.3283</b>		<b>265.3283</b>	<b>265.3283</b>	<b>27,771.7</b>	<b>11,795.6</b>	<b>39,567.3</b>	<b>25.7701</b>	<b>2.1845</b>	<b>40,862.5</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2045
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjusted Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36)  
 Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51  
 Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses  
 Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)  
 Energy Use -

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00

tblFireplaces	NumberGas	88.00	144.00
tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	0
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	4,311,275.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational  
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5

<b>Total</b>	<b>58.9516</b>	<b>32.3257</b>	<b>218.8130</b>	<b>0.3760</b>	<b>33.3693</b>	<b>2.1416</b>	<b>35.5108</b>	<b>8.8896</b>	<b>2.1340</b>	<b>11.0237</b>	<b>0.0000</b>	<b>50,088.2</b>	<b>50,088.2</b>	<b>2.1724</b>	<b>1.6685</b>	<b>50,639.7</b>
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**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
<b>Total</b>	<b>58.9516</b>	<b>32.3257</b>	<b>218.8130</b>	<b>0.3760</b>	<b>33.3693</b>	<b>2.1416</b>	<b>35.5108</b>	<b>8.8896</b>	<b>2.1340</b>	<b>11.0237</b>	<b>0.0000</b>	<b>50,088.2</b>	<b>50,088.2</b>	<b>2.1724</b>	<b>1.6685</b>	<b>50,639.7</b>

Percent Reduction	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
Unmitigated	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577



City Park	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Condo/Townhouse	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Government (Civic Center)	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Single Family Housing	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
lb/day											lb/day					
NaturalGas Mitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
NaturalGas Unmitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
kBTU/yr	lb/day											lb/day					
Apartments Low Rise	16925.7	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16028.3	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic	2232.88	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

#### Mitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
kBTU/yr	lb/day											lb/day					
Apartments Low Rise	16.9257	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16.0283	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic	2.23288	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10.371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Unmitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2045
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjusted Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36) + 30% reduction in non-residential indoor water use  
 Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51  
 Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses  
 Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00

tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	0
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	3,017,893.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational  
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
<b>Total</b>	<b>58.9516</b>	<b>32.3257</b>	<b>218.8130</b>	<b>0.3760</b>	<b>33.3693</b>	<b>2.1416</b>	<b>35.5108</b>	<b>8.8896</b>	<b>2.1340</b>	<b>11.0237</b>	<b>0.0000</b>	<b>50,088.2</b>	<b>50,088.2</b>	<b>2.1724</b>	<b>1.6685</b>	<b>50,639.7</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
Mobile	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
<b>Total</b>	<b>58.9516</b>	<b>32.3257</b>	<b>218.8130</b>	<b>0.3760</b>	<b>33.3693</b>	<b>2.1416</b>	<b>35.5108</b>	<b>8.8896</b>	<b>2.1340</b>	<b>11.0237</b>	<b>0.0000</b>	<b>50,088.2</b>	<b>50,088.2</b>	<b>2.1724</b>	<b>1.6685</b>	<b>50,639.7</b>

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
Unmitigated	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>	<b>13,914,803</b>	<b>13,914,803</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
City Park	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Condo/Townhouse	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Government (Civic Center)	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Single Family Housing	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting  
Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
NaturalGas Mitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59
NaturalGas Unmitigated	0.4913	4.2116	1.8829	0.0268		0.3395	0.3395		0.3395	0.3395		5,359.74	5,359.74	0.1027	0.0983	5,391.59

**5.2 Energy by Land Use - NaturalGas  
Unmitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day											lb/day				
Apartments Low Rise	16925.7	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16028.3	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic	2232.88	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

**Mitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day											lb/day				
Apartments Low Rise	16.9257	0.1825	1.5598	0.6638	9.9600e-		0.1261	0.1261		0.1261	0.1261		1,991.25	1,991.25	0.0382	0.0365	2,003.09
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16.0283	0.1729	1.4771	0.6286	9.4300e-		0.1194	0.1194		0.1194	0.1194		1,885.68	1,885.68	0.0361	0.0346	1,896.88
Government (Civic	2.23288	0.0241	0.2189	0.1839	1.3100e-		0.0166	0.0166		0.0166	0.0166		262.691	262.6914	5.0300e-	4.8200e-	264.252
Single Family Housing	10.371	0.1118	0.9558	0.4067	6.1000e-		0.0773	0.0773		0.0773	0.0773		1,220.11	1,220.11	0.0234	0.0224	1,227.36
<b>Total</b>		<b>0.4913</b>	<b>4.2116</b>	<b>1.8829</b>	<b>0.0268</b>		<b>0.3395</b>	<b>0.3395</b>		<b>0.3395</b>	<b>0.3395</b>		<b>5,359.74</b>	<b>5,359.74</b>	<b>0.1027</b>	<b>0.0983</b>	<b>5,391.59</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
Mitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Unmitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6

**6.2 Area by SubCategory**

**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.566	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2045
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity  
 Water And Wastewater - Adjusted Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36) + 30% reduction in non-residential indoor water use  
 Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51  
 Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses  
 Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	3,172.76	3,960.27
tblEnergyUse	NT24E	3,795.01	4,582.52
tblEnergyUse	NT24E	6,155.97	6,943.48
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00



tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	108.87	2,737.64
tblEnergyUse	T24E	80.14	4,823.70
tblEnergyUse	T24E	2.87	7.51
tblEnergyUse	T24E	142.58	6,289.07
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	16,185.01	0.00
tblEnergyUse	T24NG	15.83	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00
tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	0
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	3,017,893.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00

tbWoodstoves	NumberNoncatalytic	8.00	0.00
tbWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tbWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tbWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational  
Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
<b>Total</b>	<b>58.4603</b>	<b>28.1141</b>	<b>216.9301</b>	<b>0.3492</b>	<b>33.3693</b>	<b>1.8021</b>	<b>35.1714</b>	<b>8.8896</b>	<b>1.7946</b>	<b>10.6842</b>	<b>0.0000</b>	<b>44,728.4</b>	<b>44,728.4</b>	<b>2.0696</b>	<b>1.5703</b>	<b>45,248.1</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Area	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
<b>Total</b>	<b>58.4603</b>	<b>28.1141</b>	<b>216.9301</b>	<b>0.3492</b>	<b>33.3693</b>	<b>1.8021</b>	<b>35.1714</b>	<b>8.8896</b>	<b>1.7946</b>	<b>10.6842</b>	<b>0.0000</b>	<b>44,728.4</b>	<b>44,728.4</b>	<b>2.0696</b>	<b>1.5703</b>	<b>45,248.1</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5
Unmitigated	18.9896	11.9380	128.3046	0.2477	33.3693	0.1134	33.4827	8.8896	0.1058	8.9955		25,139.9	25,139.9	1.5556	1.2139	25,540.5

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
City Park	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Condo/Townhouse	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Government (Civic Center)	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Single Family Housing	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

- Install High Efficiency Lighting
- Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day											lb/day				
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas Unmitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	lb/day											lb/day				
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
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Land Use	kBTU/yr	lb/day								lb/day						
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6
Unmitigated	39.4706	16.1762	88.6255	0.1016		1.6887	1.6887		1.6887	1.6887	0.0000	19,588.5	19,588.5	0.5140	0.3564	19,707.6

### 6.2 Area by SubCategory

#### Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.5667	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

#### Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	9.9862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.2451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.7820	15.2280	6.4800	0.0972		1.2312	1.2312		1.2312	1.2312	0.0000	19,440.0	19,440.0	0.3726	0.3564	19,555.5
Landscaping	2.4573	0.9482	82.1455	4.3600e-		0.4575	0.4575		0.4575	0.4575		148.5667	148.5667	0.1414		152.102
<b>Total</b>	<b>39.4706</b>	<b>16.1762</b>	<b>88.6255</b>	<b>0.1016</b>		<b>1.6887</b>	<b>1.6887</b>		<b>1.6887</b>	<b>1.6887</b>	<b>0.0000</b>	<b>19,588.5</b>	<b>19,588.5</b>	<b>0.5140</b>	<b>0.3564</b>	<b>19,707.6</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

CEDHSP ops\_2030\_annual\_unmitigated.xlsx  
 El Dorado-Mountain County County, Annual

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	228.00	Dwelling Unit	14.25	228,000.00	652
Condo/Townhouse	156.00	Dwelling Unit	9.75	156,000.00	446
Single Family Housing	94.00	Dwelling Unit	30.52	169,200.00	269

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	75	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.
- Land Use -
- Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP
- Woodstoves -
- Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Energy Use -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	75
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	14,855,117.84	7,290,730.00
tblWater	IndoorWaterUseRate	10,164,028.00	12,470,986.00

tblWater	IndoorWaterUseRate	6,124,478.41	10,407,677.00
tblWater	OutdoorWaterUseRate	9,365,182.99	6,141,648.00
tblWater	OutdoorWaterUseRate	6,407,756.78	10,505,450.00
tblWater	OutdoorWaterUseRate	3,861,084.21	8,767,337.00

**2.0 Emissions Summary**  
**2.2 Overall Operational**  
**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr											MT/yr				
Area	33.1245	0.6265	40.5625	0.0673		5.2106	5.2106		5.2106	5.2106	493.7538	212.8707	706.624	0.4612	0.0388	729.727
Energy	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	500.5087	500.508	8.0000e-	7.6600e-	502.990
Mobile	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Waste						0.0000	0.0000		0.0000	0.0000	49.5075	0.0000	49.5075	2.9258	0.0000	122.652
Water						0.0000	0.0000		0.0000	0.0000	9.5714	8.5796	18.1510	0.9831	0.0232	49.6450
<b>Total</b>	<b>34.7083</b>	<b>2.4787</b>	<b>52.1096</b>	<b>0.0883</b>	<b>2.1234</b>	<b>5.2563</b>	<b>7.3796</b>	<b>0.5684</b>	<b>5.2552</b>	<b>5.8236</b>	<b>552.8326</b>	<b>2,452.38</b>	<b>3,005.22</b>	<b>4.5256</b>	<b>0.1686</b>	<b>3,168.58</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr											MT/yr				
Area	33.1245	0.6265	40.5625	0.0673		5.2106	5.2106		5.2106	5.2106	493.7538	212.8707	706.624	0.4612	0.0388	729.727
Energy	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	500.5087	500.508	8.0000e-	7.6600e-	502.990
Mobile	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Waste						0.0000	0.0000		0.0000	0.0000	49.5075	0.0000	49.5075	2.9258	0.0000	122.652
Water						0.0000	0.0000		0.0000	0.0000	9.5714	8.5796	18.1510	0.9831	0.0232	49.6450
<b>Total</b>	<b>34.7083</b>	<b>2.4787</b>	<b>52.1096</b>	<b>0.0883</b>	<b>2.1234</b>	<b>5.2563</b>	<b>7.3796</b>	<b>0.5684</b>	<b>5.2552</b>	<b>5.8236</b>	<b>552.8326</b>	<b>2,452.38</b>	<b>3,005.22</b>	<b>4.5256</b>	<b>0.1686</b>	<b>3,168.58</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr											MT/yr				
Mitigated	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Unmitigated	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,668.96	1,855.92	1,431.84	3,100,363	3,100,363

Condo/Townhouse	1,141.92	1,269.84	979.68	1,437,217	1,437,217
Single Family Housing	887.36	896.76	803.70	1,230,649	1,230,649
<b>Total</b>	<b>3,698.24</b>	<b>4,022.52</b>	<b>3,215.22</b>	<b>5,768,228</b>	<b>5,768,228</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Condo/Townhouse	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Single Family Housing	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	82.9041	82.9041	0.0000	0.0000	82.9041
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	82.9041	82.9041	0.0000	0.0000	82.9041
Natural Gas Mitigated	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	417.6046	417.604	8.0000e-	7.6600e-	420.086
Natural Gas Unmitigated	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	417.6046	417.604	8.0000e-	7.6600e-	420.086

#### 5.2 Energy by Land Use - Natural Gas

##### Unmitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.65765	0.0143	0.1225	0.0521	7.8000e-		9.9000e-	9.9000e-		9.9000e-	9.9000e-	0.0000	141.822	141.8225	2.7200e-	2.6000e-	142.665
Condo/Townhouse	2.94403	0.0159	0.1357	0.0577	8.7000e-		0.0110	0.0110		0.0110	0.0110	0.0000	157.104	157.1048	3.0100e-	2.8800e-	158.038
Single Family Housing	2.22393	0.0120	0.1025	0.0436	6.5000e-		8.2900e-	8.2900e-		8.2900e-	8.2900e-	0.0000	118.677	118.6773	2.2700e-	2.1800e-	119.382
<b>Total</b>		<b>0.0422</b>	<b>0.3606</b>	<b>0.1535</b>	<b>2.3000e-</b>		<b>0.0292</b>	<b>0.0292</b>		<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>417.604</b>	<b>417.6046</b>	<b>8.0000e-</b>	<b>7.6600e-</b>	<b>420.086</b>

##### Mitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					

Apartments Low Rise	2.65765	0.0143	0.1225	0.0521	7.8000e-	9.9000e-	9.9000e-	9.9000e-	9.9000e-	0.0000	141.822	141.8225	2.7200e-	2.6000e-	142.665
Condo/Townhouse	2.94403	0.0159	0.1357	0.0577	8.7000e-	0.0110	0.0110	0.0110	0.0110	0.0000	157.104	157.1048	3.0100e-	2.8800e-	158.038
Single Family Housing	2.22393	0.0120	0.1025	0.0436	6.5000e-	8.2900e-	8.2900e-	8.2900e-	8.2900e-	0.0000	118.677	118.6773	2.2700e-	2.1800e-	119.382
<b>Total</b>		<b>0.0422</b>	<b>0.3606</b>	<b>0.1535</b>	<b>2.3000e-</b>	<b>0.0292</b>	<b>0.0292</b>	<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>417.604</b>	<b>417.6046</b>	<b>8.0000e-</b>	<b>7.6600e-</b>	<b>420.086</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

Land Use	Electricit kWh/yr	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	932974	31.7392	0.0000	0.0000	31.7392
Condo/Townhouse	760695	25.8784	0.0000	0.0000	25.8784
Single Family Housing	743295	25.2865	0.0000	0.0000	25.2865
<b>Total</b>		<b>82.9041</b>	<b>0.0000</b>	<b>0.0000</b>	<b>82.9041</b>

#### Mitigated

Land Use	Electricit kWh/yr	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	932974	31.7392	0.0000	0.0000	31.7392
Condo/Townhouse	760695	25.8784	0.0000	0.0000	25.8784
Single Family Housing	743295	25.2865	0.0000	0.0000	25.2865
<b>Total</b>		<b>82.9041</b>	<b>0.0000</b>	<b>0.0000</b>	<b>82.9041</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	33.1245	0.6265	40.5625	0.0673		5.2106	5.2106		5.2106	5.2106	493.7538	212.8707	706.624	0.4612	0.0388	729.727
Unmitigated	33.1245	0.6265	40.5625	0.0673		5.2106	5.2106		5.2106	5.2106	493.7538	212.8707	706.624	0.4612	0.0388	729.727

#### 6.2 Area by SubCategory

##### Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	0.8654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	29.9927	0.5857	37.0227	0.0671		5.1909	5.1909		5.1909	5.1909	493.7538	207.0731	700.826	0.4557	0.0388	723.791
Landscaping	0.1059	0.0408	3.5398	1.9000e-		0.0197	0.0197		0.0197	0.0197	0.0000	5.7976	5.7976	5.5200e-	0.0000	5.9357
<b>Total</b>	<b>33.1245</b>	<b>0.6265</b>	<b>40.5625</b>	<b>0.0673</b>		<b>5.2106</b>	<b>5.2106</b>		<b>5.2106</b>	<b>5.2106</b>	<b>493.7538</b>	<b>212.8707</b>	<b>706.624</b>	<b>0.4612</b>	<b>0.0388</b>	<b>729.727</b>

##### Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					



Architectural Coating	0.8654				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1605				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	29.9927	0.5857	37.0227	0.0671	5.1909	5.1909		5.1909	5.1909	493.7538	207.0731	700.826	0.4557	0.0388	723.791
Landscaping	0.1059	0.0408	3.5398	1.9000e-	0.0197	0.0197		0.0197	0.0197	0.0000	5.7976	5.7976	5.5200e-	0.0000	5.9357
<b>Total</b>	<b>33.1245</b>	<b>0.6265</b>	<b>40.5625</b>	<b>0.0673</b>	<b>5.2106</b>	<b>5.2106</b>		<b>5.2106</b>	<b>5.2106</b>	<b>493.7538</b>	<b>212.8707</b>	<b>706.624</b>	<b>0.4612</b>	<b>0.0388</b>	<b>729.727</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Category	Total	CH4	N2O	CO2e
MT/yr				
Mitigated	18.1510	0.9831	0.0232	49.6450
Unmitigated	18.1510	0.9831	0.0232	49.6450

### 7.2 Water by Land Use

#### Unmitigated

Land Use	Indoor/ Mgal	Total	CH4	N2O	CO2e
MT/yr					
Apartments Low Rise	7.29073	4.3864	0.2376	5.6100e-	11.9972
Condo/Townhouse	12.471 /	7.5030	0.4064	9.6000e-	20.5215
Single Family Housing	10.4077	6.2616	0.3391	8.0100e-	17.1263
<b>Total</b>		<b>18.1510</b>	<b>0.9831</b>	<b>0.0232</b>	<b>49.6450</b>

#### Mitigated

Land Use	Indoor/ Mgal	Total	CH4	N2O	CO2e
MT/yr					
Apartments Low Rise	7.29073	4.3864	0.2376	5.6100e-	11.9972
Condo/Townhouse	12.471 /	7.5030	0.4064	9.6000e-	20.5215
Single Family Housing	10.4077	6.2616	0.3391	8.0100e-	17.1263
<b>Total</b>		<b>18.1510</b>	<b>0.9831</b>	<b>0.0232</b>	<b>49.6450</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

Category	Total	CH4	N2O	CO2e
MT/yr				
Mitigated	49.5075	2.9258	0.0000	122.6527
Unmitigated	49.5075	2.9258	0.0000	122.6527

### 8.2 Waste by Land Use

#### Unmitigated

Waste	Total	CH4	N2O	CO2e
-------	-------	-----	-----	------

Land Use	tons	MT/yr			
Apartments Low Rise	104.88	21.2897	1.2582	0.0000	52.7443
Condo/Townhouse	71.76	14.5666	0.8609	0.0000	36.0882
Single Family Housing	67.25	13.6511	0.8068	0.0000	33.8201
<b>Total</b>		<b>49.5075</b>	<b>2.9258</b>	<b>0.0000</b>	<b>122.652</b>

**Mitigated**

Land Use	Waste tons	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	104.88	21.2897	1.2582	0.0000	52.7443
Condo/Townhouse	71.76	14.5666	0.8609	0.0000	36.0882
Single Family Housing	67.25	13.6511	0.8068	0.0000	33.8201
<b>Total</b>		<b>49.5075</b>	<b>2.9258</b>	<b>0.0000</b>	<b>122.652</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	228.00	Dwelling Unit	14.25	228,000.00	652
Condo/Townhouse	156.00	Dwelling Unit	9.75	156,000.00	446
Single Family Housing	94.00	Dwelling Unit	30.52	169,200.00	269

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	75	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

- Land Use -
- Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP
- Woodstoves - Defaults changed to reflect implementaion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place
- Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36)
- Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51
- Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses
- Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)
- Energy Use -

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	125.40	205.20
tblFireplaces	NumberGas	85.80	140.40
tblFireplaces	NumberGas	51.70	84.60
tblFireplaces	NumberWood	79.80	0.00
tblFireplaces	NumberWood	54.60	0.00
tblFireplaces	NumberWood	32.90	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	75
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00

tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	14,855,117.84	5,832,584.00
tblWater	IndoorWaterUseRate	10,164,028.00	9,976,789.00
tblWater	IndoorWaterUseRate	6,124,478.41	8,326,142.00
tblWater	OutdoorWaterUseRate	9,365,182.99	6,141,648.00
tblWater	OutdoorWaterUseRate	6,407,756.78	10,505,450.00
tblWater	OutdoorWaterUseRate	3,861,084.21	8,767,337.00
tblWoodstoves	NumberCatalytic	11.40	0.00
tblWoodstoves	NumberCatalytic	7.80	0.00
tblWoodstoves	NumberCatalytic	4.70	0.00
tblWoodstoves	NumberNoncatalytic	11.40	0.00
tblWoodstoves	NumberNoncatalytic	7.80	0.00
tblWoodstoves	NumberNoncatalytic	4.70	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**  
**2.2 Overall Operational**  
**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Energy	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	500.5087	500.508	8.0000e-	7.6600e-	502.990
Mobile	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Waste						0.0000	0.0000		0.0000	0.0000	49.5075	0.0000	49.5075	2.9258	0.0000	122.652
Water						0.0000	0.0000		0.0000	0.0000	7.6571	7.4689	15.1260	0.7865	0.0186	40.3212
<b>Total</b>	<b>4.7498</b>	<b>2.1855</b>	<b>15.2114</b>	<b>0.0231</b>	<b>2.1234</b>	<b>0.0890</b>	<b>2.2124</b>	<b>0.5684</b>	<b>0.0880</b>	<b>0.6563</b>	<b>57.1646</b>	<b>2,583.05</b>	<b>2,640.21</b>	<b>3.8799</b>	<b>0.1313</b>	<b>2,776.33</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Energy	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	498.4261	498.426	8.0000e-	7.6600e-	500.907
Mobile	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Waste						0.0000	0.0000		0.0000	0.0000	49.5075	0.0000	49.5075	2.9258	0.0000	122.652
Water						0.0000	0.0000		0.0000	0.0000	7.6571	6.4642	14.1213	0.7865	0.0186	39.3166
<b>Total</b>	<b>4.7498</b>	<b>2.1855</b>	<b>15.2114</b>	<b>0.0231</b>	<b>2.1234</b>	<b>0.0890</b>	<b>2.2124</b>	<b>0.5684</b>	<b>0.0880</b>	<b>0.6563</b>	<b>57.1646</b>	<b>2,579.96</b>	<b>2,637.12</b>	<b>3.8799</b>	<b>0.1313</b>	<b>2,773.24</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.12</b>	<b>0.12</b>	<b>0.00</b>	<b>0.00</b>	<b>0.11</b>

#### 4.0 Operational Detail - Mobile

##### 4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Unmitigated	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57

##### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,668.96	1,855.92	1431.84	3,100,363	3,100,363
Condo/Townhouse	1,141.92	1,269.84	979.68	1,437,217	1,437,217
Single Family Housing	887.36	896.76	803.70	1,230,649	1,230,649
<b>Total</b>	<b>3,698.24</b>	<b>4,022.52</b>	<b>3,215.22</b>	<b>5,768,228</b>	<b>5,768,228</b>

##### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

##### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Condo/Townhouse	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Single Family Housing	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367

#### 5.0 Energy Detail

Historical Energy Use: N

##### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	80.8215	80.8215	0.0000	0.0000	80.8215
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	82.9041	82.9041	0.0000	0.0000	82.9041
NaturalGas Mitigated	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	417.6046	417.604	8.0000e-	7.6600e-	420.086
NaturalGas Unmitigated	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	417.6046	417.604	8.0000e-	7.6600e-	420.086

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		tons/yr										MT/yr					
Apartments Low Rise	2.65765	0.0143	0.1225	0.0521	7.8000e-		9.9000e-	9.9000e-		9.9000e-	9.9000e-	0.0000	141.822	141.8225	2.7200e-	2.6000e-	142.665
Condo/Townhouse	2.94403	0.0159	0.1357	0.0577	8.7000e-		0.0110	0.0110		0.0110	0.0110	0.0000	157.104	157.1048	3.0100e-	2.8800e-	158.038
Single Family Housing	2.22393	0.0120	0.1025	0.0436	6.5000e-		8.2900e-	8.2900e-		8.2900e-	8.2900e-	0.0000	118.677	118.6773	2.2700e-	2.1800e-	119.382
<b>Total</b>		<b>0.0422</b>	<b>0.3606</b>	<b>0.1535</b>	<b>2.3000e-</b>		<b>0.0292</b>	<b>0.0292</b>		<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>417.604</b>	<b>417.6046</b>	<b>8.0000e-</b>	<b>7.6600e-</b>	<b>420.086</b>

### Mitigated

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		tons/yr										MT/yr					
Apartments Low Rise	2.65765	0.0143	0.1225	0.0521	7.8000e-		9.9000e-	9.9000e-		9.9000e-	9.9000e-	0.0000	141.822	141.8225	2.7200e-	2.6000e-	142.665
Condo/Townhouse	2.94403	0.0159	0.1357	0.0577	8.7000e-		0.0110	0.0110		0.0110	0.0110	0.0000	157.104	157.1048	3.0100e-	2.8800e-	158.038
Single Family Housing	2.22393	0.0120	0.1025	0.0436	6.5000e-		8.2900e-	8.2900e-		8.2900e-	8.2900e-	0.0000	118.677	118.6773	2.2700e-	2.1800e-	119.382
<b>Total</b>		<b>0.0422</b>	<b>0.3606</b>	<b>0.1535</b>	<b>2.3000e-</b>		<b>0.0292</b>	<b>0.0292</b>		<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>417.604</b>	<b>417.6046</b>	<b>8.0000e-</b>	<b>7.6600e-</b>	<b>420.086</b>

## 5.3 Energy by Land Use - Electricity

### Unmitigated

Land Use	Electricit kWh/yr	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	932974	31.7392	0.0000	0.0000	31.7392
Condo/Townhouse	760695	25.8784	0.0000	0.0000	25.8784
Single Family Housing	743295	25.2865	0.0000	0.0000	25.2865
<b>Total</b>		<b>82.9041</b>	<b>0.0000</b>	<b>0.0000</b>	<b>82.9041</b>

### Mitigated

Land Use	Electricit kWh/yr	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	908090	30.8927	0.0000	0.0000	30.8927
Condo/Townhouse	740163	25.1799	0.0000	0.0000	25.1799
Single Family Housing	727492	24.7489	0.0000	0.0000	24.7489
<b>Total</b>		<b>80.8215</b>	<b>0.0000</b>	<b>0.0000</b>	<b>80.8215</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Unmitigated	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0342	0.2926	0.1245	1.8700e-		0.0237	0.0237		0.0237	0.0237	0.0000	338.8470	338.847	6.4900e-	6.2100e-	340.860
Landscaping	0.1059	0.0408	3.5398	1.9000e-		0.0197	0.0197		0.0197	0.0197	0.0000	5.7976	5.7976	5.5200e-	0.0000	5.9357
<b>Total</b>	<b>3.1660</b>	<b>0.3334</b>	<b>3.6643</b>	<b>2.0600e-</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0433</b>	<b>0.0433</b>	<b>0.0000</b>	<b>344.6445</b>	<b>344.644</b>	<b>0.0120</b>	<b>6.2100e-</b>	<b>346.796</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0342	0.2926	0.1245	1.8700e-		0.0237	0.0237		0.0237	0.0237	0.0000	338.8470	338.847	6.4900e-	6.2100e-	340.860
Landscaping	0.1059	0.0408	3.5398	1.9000e-		0.0197	0.0197		0.0197	0.0197	0.0000	5.7976	5.7976	5.5200e-	0.0000	5.9357
<b>Total</b>	<b>3.1660</b>	<b>0.3334</b>	<b>3.6643</b>	<b>2.0600e-</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0433</b>	<b>0.0433</b>	<b>0.0000</b>	<b>344.6445</b>	<b>344.644</b>	<b>0.0120</b>	<b>6.2100e-</b>	<b>346.796</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

	Total	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.1213	0.7865	0.0186	39.3166
Unmitigated	15.1260	0.7865	0.0186	40.3212

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/ Mgal	Total	CH4	N2O	CO2e
Land Use	MT/yr				
Apartments Low Rise	5.83258	3.6553	0.1901	4.4900e-	9.7440
Condo/Townhouse	9.97679	6.2526	0.3251	7.6800e-	16.6674
Single Family Housing	8.32614	5.2181	0.2713	6.4100e-	13.9098
<b>Total</b>		<b>15.1260</b>	<b>0.7865</b>	<b>0.0186</b>	<b>40.3212</b>

**Mitigated**

	Indoor/ Mgal	Total	CH4	N2O	CO2e
Land Use	MT/yr				
Apartments Low Rise	5.83258	3.4126	0.1901	4.4900e-	9.5012
Condo/Townhouse	9.97679	5.8373	0.3251	7.6800e-	16.2521
Single Family Housing	8.32614	4.8715	0.2713	6.4100e-	13.5632
<b>Total</b>		<b>14.1213</b>	<b>0.7865</b>	<b>0.0186</b>	<b>39.3166</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.5075	2.9258	0.0000	122.6527
Unmitigated	49.5075	2.9258	0.0000	122.6527

### 8.2 Waste by Land Use

#### Unmitigated

Land Use	Waste tons	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	104.88	21.2897	1.2582	0.0000	52.7443
Condo/Townhouse	71.76	14.5666	0.8609	0.0000	36.0882
Single Family Housing	67.25	13.6511	0.8068	0.0000	33.8201
<b>Total</b>		<b>49.5075</b>	<b>2.9258</b>	<b>0.0000</b>	<b>122.652</b>

#### Mitigated

Land Use	Waste tons	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	104.88	21.2897	1.2582	0.0000	52.7443
Condo/Townhouse	71.76	14.5666	0.8609	0.0000	36.0882
Single Family Housing	67.25	13.6511	0.8068	0.0000	33.8201
<b>Total</b>		<b>49.5075</b>	<b>2.9258</b>	<b>0.0000</b>	<b>122.652</b>



**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2030\_annual\_fully mitigated with NG  
EI Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	228.00	Dwelling Unit	14.25	228,000.00	652
Condo/Townhouse	156.00	Dwelling Unit	9.75	156,000.00	446
Single Family Housing	94.00	Dwelling Unit	30.52	169,200.00	269

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	75	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjusted as per WSA data  
 Area Mitigation -  
 Energy Mitigation -  
 Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	125.40	205.20
tblFireplaces	NumberGas	85.80	140.40
tblFireplaces	NumberGas	51.70	84.60
tblFireplaces	NumberWood	79.80	0.00
tblFireplaces	NumberWood	54.60	0.00
tblFireplaces	NumberWood	32.90	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	75
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50

tb\VehicleTrips	HS_TL	7.30	3.10
tb\VehicleTrips	HS_TL	7.30	3.10
tb\VehicleTrips	HW_TL	10.80	7.40
tb\VehicleTrips	HW_TL	10.80	5.00
tb\VehicleTrips	HW_TL	10.80	6.10
tb\Water	IndoorWaterUseRate	14,855,117.84	5,832,584.00
tb\Water	IndoorWaterUseRate	10,164,028.00	9,976,789.00
tb\Water	IndoorWaterUseRate	6,124,478.41	8,326,142.00
tb\Water	OutdoorWaterUseRate	9,365,182.99	6,141,648.00
tb\Water	OutdoorWaterUseRate	6,407,756.78	10,505,450.00
tb\Water	OutdoorWaterUseRate	3,861,084.21	8,767,337.00
tb\Woodstoves	NumberCatalytic	11.40	0.00
tb\Woodstoves	NumberCatalytic	7.80	0.00
tb\Woodstoves	NumberCatalytic	4.70	0.00
tb\Woodstoves	NumberNoncatalytic	11.40	0.00
tb\Woodstoves	NumberNoncatalytic	7.80	0.00
tb\Woodstoves	NumberNoncatalytic	4.70	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**  
**2.2 Overall Operational**  
**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Energy	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	500.5087	500.508	8.0000e-	7.6600e-	502.990
Mobile	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Waste						0.0000	0.0000		0.0000	0.0000	49.5075	0.0000	49.5075	2.9258	0.0000	122.652
Water						0.0000	0.0000		0.0000	0.0000	7.6571	7.4689	15.1260	0.7865	0.0186	40.3212
<b>Total</b>	<b>4.7498</b>	<b>2.1855</b>	<b>15.2114</b>	<b>0.0231</b>	<b>2.1234</b>	<b>0.0890</b>	<b>2.2124</b>	<b>0.5684</b>	<b>0.0880</b>	<b>0.6563</b>	<b>57.1646</b>	<b>2,583.05</b>	<b>2,640.21</b>	<b>3.8799</b>	<b>0.1313</b>	<b>2,776.33</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Energy	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	498.4261	498.426	8.0000e-	7.6600e-	500.907
Mobile	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Waste						0.0000	0.0000		0.0000	0.0000	49.5075	0.0000	49.5075	2.9258	0.0000	122.652
Water						0.0000	0.0000		0.0000	0.0000	7.6571	6.4642	14.1213	0.7865	0.0186	39.3166
<b>Total</b>	<b>4.7498</b>	<b>2.1855</b>	<b>15.2114</b>	<b>0.0231</b>	<b>2.1234</b>	<b>0.0890</b>	<b>2.2124</b>	<b>0.5684</b>	<b>0.0880</b>	<b>0.6563</b>	<b>57.1646</b>	<b>2,579.96</b>	<b>2,637.12</b>	<b>3.8799</b>	<b>0.1313</b>	<b>2,773.24</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.12</b>	<b>0.12</b>	<b>0.00</b>	<b>0.00</b>	<b>0.11</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Unmitigated	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,668.96	1,855.92	1,431.84	3,100,363	3,100,363
Condo/Townhouse	1,141.92	1,269.84	979.68	1,437,217	1,437,217
Single Family Housing	887.36	896.76	803.70	1,230,649	1,230,649
Total	3,698.24	4,022.52	3,215.22	5,768,228	5,768,228

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Condo/Townhouse	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Single Family Housing	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	80.8215	80.8215	0.0000	0.0000	80.8215
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	82.9041	82.9041	0.0000	0.0000	82.9041
Natural Gas Mitigated	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	417.6046	417.604	8.0000e-	7.6600e-	420.086
Natural Gas Unmitigated	0.0422	0.3606	0.1534	2.3000e-		0.0292	0.0292		0.0292	0.0292	0.0000	417.6046	417.604	8.0000e-	7.6600e-	420.086

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		tons/yr										MT/yr					
Apartments Low Rise	2.65765	0.0143	0.1225	0.0521	7.8000e-		9.9000e-	9.9000e-		9.9000e-	9.9000e-	0.0000	141.822	141.8225	2.7200e-	2.6000e-	142.665
Condo/Townhouse	2.94403	0.0159	0.1357	0.0577	8.7000e-		0.0110	0.0110		0.0110	0.0110	0.0000	157.104	157.1048	3.0100e-	2.8800e-	158.038
Single Family Housing	2.22393	0.0120	0.1025	0.0436	6.5000e-		8.2900e-	8.2900e-		8.2900e-	8.2900e-	0.0000	118.677	118.6773	2.2700e-	2.1800e-	119.382
<b>Total</b>		<b>0.0422</b>	<b>0.3606</b>	<b>0.1535</b>	<b>2.3000e-</b>		<b>0.0292</b>	<b>0.0292</b>		<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>417.604</b>	<b>417.6046</b>	<b>8.0000e-</b>	<b>7.6600e-</b>	<b>420.086</b>

**Mitigated**

Land Use	Natural kBTU/yr	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
		tons/yr										MT/yr					
Apartments Low Rise	2.65765	0.0143	0.1225	0.0521	7.8000e-		9.9000e-	9.9000e-		9.9000e-	9.9000e-	0.0000	141.822	141.8225	2.7200e-	2.6000e-	142.665
Condo/Townhouse	2.94403	0.0159	0.1357	0.0577	8.7000e-		0.0110	0.0110		0.0110	0.0110	0.0000	157.104	157.1048	3.0100e-	2.8800e-	158.038
Single Family Housing	2.22393	0.0120	0.1025	0.0436	6.5000e-		8.2900e-	8.2900e-		8.2900e-	8.2900e-	0.0000	118.677	118.6773	2.2700e-	2.1800e-	119.382
<b>Total</b>		<b>0.0422</b>	<b>0.3606</b>	<b>0.1535</b>	<b>2.3000e-</b>		<b>0.0292</b>	<b>0.0292</b>		<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>417.604</b>	<b>417.6046</b>	<b>8.0000e-</b>	<b>7.6600e-</b>	<b>420.086</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity kWh/yr	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	932974	31.7392	0.0000	0.0000	31.7392
Condo/Townhouse	760695	25.8784	0.0000	0.0000	25.8784
Single Family Housing	743295	25.2865	0.0000	0.0000	25.2865
<b>Total</b>		<b>82.9041</b>	<b>0.0000</b>	<b>0.0000</b>	<b>82.9041</b>

**Mitigated**

Land Use	Electricity kWh/yr	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	908090	30.8927	0.0000	0.0000	30.8927
Condo/Townhouse	740163	25.1799	0.0000	0.0000	25.1799
Single Family Housing	727492	24.7489	0.0000	0.0000	24.7489
<b>Total</b>		<b>80.8215</b>	<b>0.0000</b>	<b>0.0000</b>	<b>80.8215</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Unmitigated	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0342	0.2926	0.1245	1.8700e-		0.0237	0.0237		0.0237	0.0237	0.0000	338.8470	338.847	6.4900e-	6.2100e-	340.860
Landscaping	0.1059	0.0408	3.5398	1.9000e-		0.0197	0.0197		0.0197	0.0197	0.0000	5.7976	5.7976	5.5200e-	0.0000	5.9357
<b>Total</b>	<b>3.1660</b>	<b>0.3334</b>	<b>3.6643</b>	<b>2.0600e-</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0433</b>	<b>0.0433</b>	<b>0.0000</b>	<b>344.6445</b>	<b>344.644</b>	<b>0.0120</b>	<b>6.2100e-</b>	<b>346.796</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0342	0.2926	0.1245	1.8700e-		0.0237	0.0237		0.0237	0.0237	0.0000	338.8470	338.847	6.4900e-	6.2100e-	340.860
Landscaping	0.1059	0.0408	3.5398	1.9000e-		0.0197	0.0197		0.0197	0.0197	0.0000	5.7976	5.7976	5.5200e-	0.0000	5.9357
<b>Total</b>	<b>3.1660</b>	<b>0.3334</b>	<b>3.6643</b>	<b>2.0600e-</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0433</b>	<b>0.0433</b>	<b>0.0000</b>	<b>344.6445</b>	<b>344.644</b>	<b>0.0120</b>	<b>6.2100e-</b>	<b>346.796</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Use Reclaimed Water

	Total	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.1213	0.7865	0.0186	39.3166
Unmitigated	15.1260	0.7865	0.0186	40.3212

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/ Mgal	Total	CH4	N2O	CO2e
Land Use	MT/yr				
Apartments Low Rise	5.83258	3.6553	0.1901	4.4900e-	9.7440
Condo/Townhouse	9.97679	6.2526	0.3251	7.6800e-	16.6674
Single Family Housing	8.32614	5.2181	0.2713	6.4100e-	13.9098
<b>Total</b>		<b>15.1260</b>	<b>0.7865</b>	<b>0.0186</b>	<b>40.3212</b>

#### Mitigated

	Indoor/ Mgal	Total	CH4	N2O	CO2e
Land Use	MT/yr				
Apartments Low Rise	5.83258	3.4126	0.1901	4.4900e-	9.5012
Condo/Townhouse	9.97679	5.8373	0.3251	7.6800e-	16.2521
Single Family Housing	8.32614	4.8715	0.2713	6.4100e-	13.5632
<b>Total</b>		<b>14.1213</b>	<b>0.7865</b>	<b>0.0186</b>	<b>39.3166</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Category/Year

	Total	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.5075	2.9258	0.0000	122.6527
Unmitigated	49.5075	2.9258	0.0000	122.6527

**8.2 Waste by Land Use**

Unmitigated

Land Use	Waste tons	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	104.88	21.2897	1.2582	0.0000	52.7443
Condo/Townhouse	71.76	14.5666	0.8609	0.0000	36.0882
Single Family Housing	67.25	13.6511	0.8068	0.0000	33.8201
<b>Total</b>		<b>49.5075</b>	<b>2.9258</b>	<b>0.0000</b>	<b>122.652</b>

Mitigated

Land Use	Waste tons	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	104.88	21.2897	1.2582	0.0000	52.7443
Condo/Townhouse	71.76	14.5666	0.8609	0.0000	36.0882
Single Family Housing	67.25	13.6511	0.8068	0.0000	33.8201
<b>Total</b>		<b>49.5075</b>	<b>2.9258</b>	<b>0.0000</b>	<b>122.652</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2030\_annual\_fully mitigated without NG  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	228.00	Dwelling Unit	14.25	228,000.00	652
Condo/Townhouse	156.00	Dwelling Unit	9.75	156,000.00	446
Single Family Housing	94.00	Dwelling Unit	30.52	169,200.00	269

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	75	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

Land Use -

Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP

Woodstoves - Defaults changed to reflect implementation of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place

Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Policy 8.36)

Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51

Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses

Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	3,172.76	3,960.27
tblEnergyUse	NT24E	3,795.01	4,582.52
tblEnergyUse	NT24E	6,155.97	6,943.48
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	108.87	2,737.64
tblEnergyUse	T24E	80.14	4,823.70
tblEnergyUse	T24E	142.58	6,289.07
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	16,185.01	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	125.40	205.20

tb\Fireplaces	NumberGas	85.80	140.40
tb\Fireplaces	NumberGas	51.70	84.60
tb\Fireplaces	NumberWood	79.80	0.00
tb\Fireplaces	NumberWood	54.60	0.00
tb\Fireplaces	NumberWood	32.90	0.00
tb\ProjectCharacteristics	CH4IntensityFactor	0.033	0
tb\ProjectCharacteristics	CO2IntensityFactor	203.98	75
tb\ProjectCharacteristics	N2OIntensityFactor	0.004	0
tb\VehicleTrips	HO_TL	7.50	4.60
tb\VehicleTrips	HO_TL	7.50	3.10
tb\VehicleTrips	HO_TL	7.50	3.00
tb\VehicleTrips	HS_TL	7.30	4.50
tb\VehicleTrips	HS_TL	7.30	3.10
tb\VehicleTrips	HS_TL	7.30	3.10
tb\VehicleTrips	HW_TL	10.80	7.40
tb\VehicleTrips	HW_TL	10.80	5.00
tb\VehicleTrips	HW_TL	10.80	6.10
tb\Water	IndoorWaterUseRate	14,855,117.84	5,832,584.00
tb\Water	IndoorWaterUseRate	10,164,028.00	9,976,789.00
tb\Water	IndoorWaterUseRate	6,124,478.41	8,326,142.00
tb\Water	OutdoorWaterUseRate	9,365,182.99	6,141,648.00
tb\Water	OutdoorWaterUseRate	6,407,756.78	10,505,450.00
tb\Water	OutdoorWaterUseRate	3,861,084.21	8,767,337.00
tb\Woodstoves	NumberCatalytic	11.40	0.00
tb\Woodstoves	NumberCatalytic	7.80	0.00
tb\Woodstoves	NumberCatalytic	4.70	0.00
tb\Woodstoves	NumberNoncatalytic	11.40	0.00
tb\Woodstoves	NumberNoncatalytic	7.80	0.00
tb\Woodstoves	NumberNoncatalytic	4.70	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	160.9295	160.929	0.0000	0.0000	160.929
Mobile	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Waste						0.0000	0.0000		0.0000	0.0000	49.5075	0.0000	49.5075	2.9258	0.0000	122.652
Water						0.0000	0.0000		0.0000	0.0000	7.6571	7.4689	15.1260	0.7865	0.0186	40.3212
<b>Total</b>	<b>4.7076</b>	<b>1.8250</b>	<b>15.0579</b>	<b>0.0208</b>	<b>2.1234</b>	<b>0.0598</b>	<b>2.1832</b>	<b>0.5684</b>	<b>0.0588</b>	<b>0.6272</b>	<b>57.1646</b>	<b>2,243.47</b>	<b>2,300.63</b>	<b>3.8719</b>	<b>0.1236</b>	<b>2,434.27</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	158.8469	158.846	0.0000	0.0000	158.846



Mobile	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Waste						0.0000	0.0000		0.0000	0.0000	49.5075	0.0000	49.5075	2.9258	0.0000	122.652
Water						0.0000	0.0000		0.0000	0.0000	7.6571	6.4642	14.1213	0.7865	0.0186	39.3166
<b>Total</b>	<b>4.7076</b>	<b>1.8250</b>	<b>15.0579</b>	<b>0.0208</b>	<b>2.1234</b>	<b>0.0598</b>	<b>2.1832</b>	<b>0.5684</b>	<b>0.0588</b>	<b>0.6272</b>	<b>57.1646</b>	<b>2,240.38</b>	<b>2,297.55</b>	<b>3.8719</b>	<b>0.1236</b>	<b>2,431.18</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.14</b>	<b>0.13</b>	<b>0.00</b>	<b>0.00</b>	<b>0.13</b>

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57
Unmitigated	1.5416	1.4916	11.3936	0.0188	2.1234	0.0165	2.1399	0.5684	0.0155	0.5838	0.0000	1,730.43	1,730.43	0.1476	0.0988	1,763.57

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,668.96	1,855.92	1,431.84	3,100,363	3,100,363
Condo/Townhouse	1,141.92	1,269.84	979.68	1,437,217	1,437,217
Single Family Housing	887.36	896.76	803.70	1,230,649	1,230,649
<b>Total</b>	<b>3,698.24</b>	<b>4,022.52</b>	<b>3,215.22</b>	<b>5,768,228</b>	<b>5,768,228</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Condo/Townhouse	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367
Single Family Housing	0.467571	0.060802	0.222432	0.147219	0.036479	0.007611	0.011798	0.004164	0.000674	0.000553	0.034235	0.001097	0.005367

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
 Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	158.8469	158.846	0.0000	0.0000	158.846
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	160.9295	160.929	0.0000	0.0000	160.929
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricit	Total	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Apartments Low Rise	1.71189	58.2374	0.0000	0.0000	58.2374
Condo/Townhouse	1.62354	55.2320	0.0000	0.0000	55.2320
Single Family Housing	1.39509	47.4602	0.0000	0.0000	47.4602
<b>Total</b>		<b>160.9295</b>	<b>0.0000</b>	<b>0.0000</b>	<b>160.9295</b>

**Mitigated**

Land Use	Electricit	Total	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Apartments Low Rise	1.687e+	57.3908	0.0000	0.0000	57.3908
Condo/Townhouse	1.60301	54.5335	0.0000	0.0000	54.5335
Single Family Housing	1.37929	46.9226	0.0000	0.0000	46.9226
<b>Total</b>		<b>158.8469</b>	<b>0.0000</b>	<b>0.0000</b>	<b>158.8469</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796
Unmitigated	3.1660	0.3334	3.6643	2.0500e-		0.0433	0.0433		0.0433	0.0433	0.0000	344.6445	344.644	0.0120	6.2100e-	346.796

**6.2 Area by SubCategory**

**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	0.8654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0342	0.2926	0.1245	1.8700e-		0.0237	0.0237		0.0237	0.0237	0.0000	338.8470	338.847	6.4900e-	6.2100e-	340.860
Landscaping	0.1059	0.0408	3.5398	1.9000e-		0.0197	0.0197		0.0197	0.0197	0.0000	5.7976	5.7976	5.5200e-	0.0000	5.9357
<b>Total</b>	<b>3.1660</b>	<b>0.3334</b>	<b>3.6643</b>	<b>2.0600e-</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0433</b>	<b>0.0433</b>	<b>0.0000</b>	<b>344.6445</b>	<b>344.644</b>	<b>0.0120</b>	<b>6.2100e-</b>	<b>346.796</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	0.8654					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0342	0.2926	0.1245	1.8700e-		0.0237	0.0237		0.0237	0.0237	0.0000	338.8470	338.847	6.4900e-	6.2100e-	340.860
Landscaping	0.1059	0.0408	3.5398	1.9000e-		0.0197	0.0197		0.0197	0.0197	0.0000	5.7976	5.7976	5.5200e-	0.0000	5.9357
<b>Total</b>	<b>3.1660</b>	<b>0.3334</b>	<b>3.6643</b>	<b>2.0600e-</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0433</b>	<b>0.0433</b>	<b>0.0000</b>	<b>344.6445</b>	<b>344.644</b>	<b>0.0120</b>	<b>6.2100e-</b>	<b>346.796</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

Category	Total	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.1213	0.7865	0.0186	39.3166
Unmitigated	15.1260	0.7865	0.0186	40.3212

**7.2 Water by Land Use**

**Unmitigated**

Land Use	Indoor/ Mgal	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	5.83258	3.6553	0.1901	4.4900e-	9.7440
Condo/Townhouse	9.97679	6.2526	0.3251	7.6800e-	16.6674
Single Family Housing	8.32614	5.2181	0.2713	6.4100e-	13.9098
<b>Total</b>		<b>15.1260</b>	<b>0.7865</b>	<b>0.0186</b>	<b>40.3212</b>

**Mitigated**

	Indoor/ Mgal	Total	CH4	N2O	CO2e
Land Use		MT/yr			
Apartments Low Rise	5.83258	3.4126	0.1901	4.4900e-	9.5012
Condo/Townhouse	9.97679	5.8373	0.3251	7.6800e-	16.2521
Single Family Housing	8.32614	4.8715	0.2713	6.4100e-	13.5632
<b>Total</b>		<b>14.1213</b>	<b>0.7865</b>	<b>0.0186</b>	<b>39.3166</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.5075	2.9258	0.0000	122.6527
Unmitigated	49.5075	2.9258	0.0000	122.6527

**8.2 Waste by Land Use**

Unmitigated

	Waste	Total	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	104.88	21.2897	1.2582	0.0000	52.7443
Condo/Townhouse	71.76	14.5666	0.8609	0.0000	36.0882
Single Family Housing	67.25	13.6511	0.8068	0.0000	33.8201
<b>Total</b>		<b>49.5075</b>	<b>2.9258</b>	<b>0.0000</b>	<b>122.652</b>

Mitigated

	Waste	Total	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	104.88	21.2897	1.2582	0.0000	52.7443
Condo/Townhouse	71.76	14.5666	0.8609	0.0000	36.0882
Single Family Housing	67.25	13.6511	0.8068	0.0000	33.8201
<b>Total</b>		<b>49.5075</b>	<b>2.9258</b>	<b>0.0000</b>	<b>122.652</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2040\_annual\_unmitigated.xlsx  
EI Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	25	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves -  
 Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36)  
 Area Mitigation -  
 Energy Mitigation -  
 Water Mitigation -  
 Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	25
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00

tb\VehicleTrips	CNW_TL	7.30	4.50
tb\VehicleTrips	CW_TL	9.50	7.40
tb\VehicleTrips	CW_TL	9.50	7.40
tb\VehicleTrips	HO_TL	7.50	4.60
tb\VehicleTrips	HO_TL	7.50	3.10
tb\VehicleTrips	HO_TL	7.50	3.00
tb\VehicleTrips	HS_TL	7.30	4.50
tb\VehicleTrips	HS_TL	7.30	3.10
tb\VehicleTrips	HS_TL	7.30	3.10
tb\VehicleTrips	HW_TL	10.80	7.40
tb\VehicleTrips	HW_TL	10.80	5.00
tb\VehicleTrips	HW_TL	10.80	6.10
tb\Water	IndoorWaterUseRate	34,531,633.58	16,947,750.00
tb\Water	IndoorWaterUseRate	20,197,747.94	24,782,088.00
tb\Water	IndoorWaterUseRate	9,932,984.29	4,311,275.00
tb\Water	IndoorWaterUseRate	10,424,644.10	17,715,195.00
tb\Water	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tb\Water	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tb\Water	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tb\Water	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tb\Water	OutdoorWaterUseRate	6,572,058.24	14,923,127.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	69.3971	1.3107	84.8465	0.1407		10.9009	10.9009		10.9009	10.9009	1,032.9577	445.3374	1,478.2951	0.9648	0.0813	1,526.6275
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	948.9249	948.9249	0.0170	0.0163	954.1981
Mobile	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.8889	3,558.8889	0.2646	0.1941	3,623.3325
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.8107	9.4445	0.0000	395.9243
Water						0.0000	0.0000		0.0000	0.0000	20.2269	6.6880	26.9149	2.0775	0.0491	93.4706
<b>Total</b>	<b>72.1423</b>	<b>4.3867</b>	<b>107.4126</b>	<b>0.1842</b>	<b>5.1121</b>	<b>10.9843</b>	<b>16.0964</b>	<b>1.3668</b>	<b>10.9829</b>	<b>12.3497</b>	<b>1,212.9954</b>	<b>4,959.8392</b>	<b>6,172.8345</b>	<b>12.7685</b>	<b>0.3406</b>	<b>6,593.5530</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Area	69.3971	1.3107	84.8465	0.1407		10.9009	10.9009		10.9009	10.9009	1,032.95	445.3374	1,478.29	0.9648	0.0813	1,526.62
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	77	948.9249	948.924	0.0170	0.0163	954.198
Mobile	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
Waste						0.0000	0.0000		0.0000	0.0000	89	159.8107	159.810	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	7	20.2269	26.9149	2.0775	0.0491	93.4706
<b>Total</b>	<b>72.1423</b>	<b>4.3867</b>	<b>107.4126</b>	<b>0.1842</b>	<b>5.1121</b>	<b>10.9843</b>	<b>16.0964</b>	<b>1.3668</b>	<b>10.9829</b>	<b>12.3497</b>	<b>1,212.99</b>	<b>4,959.83</b>	<b>6,172.83</b>	<b>12.7685</b>	<b>0.3406</b>	<b>6,593.55</b>
											<b>54</b>	<b>92</b>	<b>45</b>			<b>30</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
Unmitigated	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	89	89	0.2646	0.1941	3,623.33
												89	89			25

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1,946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1,368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
City Park	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Condo/Townhouse	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Government (Civic Center)	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Single Family Housing	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.5590	61.5590	0.0000	0.0000	61.5590
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.5590	61.5590	0.0000	0.0000	61.5590
NaturalGas Mitigated	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391
NaturalGas Unmitigated	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

Natural Gas	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	6.17788e+006	0.0333	0.2847	0.1211	1.8200e-003		0.0230	0.0230		0.0230	0.0230	0.0000	329.6750	329.6750	6.3200e-003	6.0400e-003	331.6341
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507
Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>

**Mitigated**

Land Use	Natural Gas	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	6.17788e+006	0.0333	0.2847	0.1211	1.8200e-003		0.0230	0.0230		0.0230	0.0230	0.0000	329.6750	329.6750	6.3200e-003	6.0400e-003	331.6341
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507
Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	2.16875e+006	24.5933	0.0000	0.0000	24.5933

City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.51164 e+006	17.1417	0.0000	0.0000	17.1417
Government (Civic Center)	483000	5.4771	0.0000	0.0000	5.4771
Single Family Housing	1.26518 e+006	14.3469	0.0000	0.0000	14.3469
<b>Total</b>		<b>61.5590</b>	<b>0.0000</b>	<b>0.0000</b>	<b>61.5590</b>

**Mitigated**

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	2.16875 e+006	24.5933	0.0000	0.0000	24.5933
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.51164 e+006	17.1417	0.0000	0.0000	17.1417
Government (Civic Center)	483000	5.4771	0.0000	0.0000	5.4771
Single Family Housing	1.26518 e+006	14.3469	0.0000	0.0000	14.3469
<b>Total</b>		<b>61.5590</b>	<b>0.0000</b>	<b>0.0000</b>	<b>61.5590</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	69.3971	1.3107	84.8465	0.1407			10.9009	10.9009		10.9009	10.9009	1,032.9577	445.3374	1,478.2951	0.9648	0.0813	1,526.6275
Unmitigated	69.3971	1.3107	84.8465	0.1407			10.9009	10.9009		10.9009	10.9009	1,032.9577	445.3374	1,478.2951	0.9648	0.0813	1,526.6275

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	62.7462	1.2254	77.4534	0.1403			10.8597	10.8597		10.8597	1,032.9577	433.2074	1,466.1651	0.9533	0.0813	1,514.2088
Landscaping	0.2212	0.0853	7.3931	3.9000e-004			0.0412	0.0412		0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>69.3971</b>	<b>1.3107</b>	<b>84.8465</b>	<b>0.1407</b>			<b>10.9009</b>	<b>10.9009</b>		<b>10.9009</b>	<b>1,032.9577</b>	<b>445.3374</b>	<b>1,478.2951</b>	<b>0.9648</b>	<b>0.0813</b>	<b>1,526.6275</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	62.7462	1.2254	77.4534	0.1403			10.8597	10.8597		10.8597	1,032.9577	433.2074	1,466.1651	0.9533	0.0813	1,514.2088
Landscaping	0.2212	0.0853	7.3931	3.9000e-004			0.0412	0.0412		0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187

<b>Total</b>	<b>69.3971</b>	<b>1.3107</b>	<b>84.8465</b>	<b>0.1407</b>		<b>10.9009</b>	<b>10.9009</b>		<b>10.9009</b>	<b>10.9009</b>	<b>1,032.95</b>	<b>445.3374</b>	<b>1,478.29</b>	<b>0.9648</b>	<b>0.0813</b>	<b>1,526.62</b>
											<b>77</b>		<b>51</b>			<b>75</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.9149	2.0775	0.0491	93.4706
Unmitigated	26.9149	2.0775	0.0491	93.4706

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	16.9477	6.9833	0.5522	0.0130	24.6752
City Park	/	0.6477	0.0000	0.0000	0.6477
Condo/Townhouse	16.3192	10.2114	0.8075	0.0191	36.0816
Government (Civic Center)	24.7821	1.7731	0.1405	3.3200e-003	6.2736
Single Family Housing	4.31128	7.2995	0.5773	0.0136	25.7925
<b>Total</b>		<b>26.9149</b>	<b>2.0775</b>	<b>0.0491</b>	<b>93.4706</b>

**Mitigated**

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Apartments Low Rise	16.9477 /	6.9833	0.5522	0.0130	24.6752
City Park	0/ 16.3192	0.6477	0.0000	0.0000	0.6477
Condo/Townhouse	24.7821 /	10.2114	0.8075	0.0191	36.0816
Government (Civic Center)	4.31128 /	1.7731	0.1405	3.3200e- 003	6.2736
Single Family Housing	17.7152 /	7.2995	0.5773	0.0136	25.7925
<b>Total</b>		<b>26.9149</b>	<b>2.0775</b>	<b>0.0491</b>	<b>93.4706</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	159.810 7	9.4445	0.0000	395.9243
Unmitigated	159.810 7	9.4445	0.0000	395.9243

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.607 4
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.326 9
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.810 7</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.924 3</b>

**Mitigated**

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2040\_annual\_partially mitigated.xlsx  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	25	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36)  
 Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51  
 Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses  
 Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)  
 Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00

tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	25
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	4,311,275.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr											MT/yr				



Area	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	948.9249	948.9249	0.0170	0.0163	954.1981
Mobile	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.8889	3,558.8889	0.2646	0.1941	3,623.3325
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.8107	9.4445	0.0000	395.9243
Water						0.0000	0.0000		0.0000	0.0000	16.4551	5.9585	22.4136	1.6901	0.0399	76.5583
<b>Total</b>	<b>9.4691</b>	<b>3.7857</b>	<b>30.2250</b>	<b>0.0479</b>	<b>5.1121</b>	<b>0.1751</b>	<b>5.2872</b>	<b>1.3668</b>	<b>0.1737</b>	<b>1.5405</b>	<b>176.2658</b>	<b>5,248.9648</b>	<b>5,425.2306</b>	<b>11.4417</b>	<b>0.2635</b>	<b>5,789.7911</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	947.5013	947.5013	0.0170	0.0163	952.7744
Mobile	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.8889	3,558.8889	0.2646	0.1941	3,623.3325
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.8107	9.4445	0.0000	395.9243
Water						0.0000	0.0000		0.0000	0.0000	16.4551	5.0369	21.4920	1.6901	0.0399	75.6367
<b>Total</b>	<b>9.4691</b>	<b>3.7857</b>	<b>30.2250</b>	<b>0.0479</b>	<b>5.1121</b>	<b>0.1751</b>	<b>5.2872</b>	<b>1.3668</b>	<b>0.1737</b>	<b>1.5405</b>	<b>176.2658</b>	<b>5,246.6196</b>	<b>5,422.8854</b>	<b>11.4417</b>	<b>0.2635</b>	<b>5,787.4459</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>	<b>0.04</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Mitigated	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941
Unmitigated	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
Total	9,370.68	8,395.36	6,678.24	13,914,803	13,914,803

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
City Park	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Condo/Townhouse	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Government (Civic Center)	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Single Family Housing	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

- Install High Efficiency Lighting
- Install Energy Efficient Appliances



Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003	0.0218	0.0218	0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507
Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004	3.0400e-003	3.0400e-003	3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003	0.0141	0.0141	0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	2.16875e+006	24.5933	0.0000	0.0000	24.5933
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.51164e+006	17.1417	0.0000	0.0000	17.1417
Government (Civic Center)	483000	5.4771	0.0000	0.0000	5.4771
Single Family Housing	1.26518e+006	14.3469	0.0000	0.0000	14.3469
<b>Total</b>		<b>61.5590</b>	<b>0.0000</b>	<b>0.0000</b>	<b>61.5590</b>

#### Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	2.11091e+006	23.9373	0.0000	0.0000	23.9373
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.47084e+006	16.6790	0.0000	0.0000	16.6790
Government (Civic Center)	483000	5.4771	0.0000	0.0000	5.4771
Single Family Housing	1.23828e+006	14.0419	0.0000	0.0000	14.0419



Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

#### Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.4920	1.6901	0.0399	75.6367
Unmitigated	22.4136	1.6901	0.0399	76.5583

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582	5.7000	0.4418	0.0104	19.8535
City Park	0 / 16.3192	0.6477	0.0000	0.0000	0.6477
Condo/Townhouse	19.8257	8.3348	0.6460	0.0153	29.0310
Government (Civic Center)	4.31128	1.7731	0.1405	3.3200e-003	6.2736
Single Family Housing	14.1722	5.9581	0.4618	0.0109	20.7525
<b>Total</b>		<b>22.4136</b>	<b>1.6901</b>	<b>0.0399</b>	<b>76.5583</b>

#### Mitigated

	Indoor/Outdoor	Total CO2	CH4	N2O	CO2e
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Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582	5.5118	0.4418	0.0104	19.6653
City Park	0 / 10.9012	0.4327	0.0000	0.0000	0.4327
Condo/Townhouse	19.8257	8.0598	0.6460	0.0153	28.7559
Government (Civic Center)	4.31128	1.7263	0.1405	3.3200e-003	6.2269
Single Family Housing	14.1722	5.7614	0.4618	0.0109	20.5558
<b>Total</b>		<b>21.4920</b>	<b>1.6901</b>	<b>0.0399</b>	<b>75.6366</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	159.8107	9.4445	0.0000	395.9243
Unmitigated	159.8107	9.4445	0.0000	395.9243

### 8.2 Waste by Land Use

#### Unmitigated

Land Use	Waste Dispose	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822

<b>Total</b>		<b>159.810</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.924</b>
		<b>7</b>			<b>3</b>

**Mitigated**

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.810</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.924</b>
		<b>7</b>			<b>3</b>



**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2040\_annual\_fully mitigated with NG  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	25	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

Land Use -

Construction Phase - Operation run only

Off-road Equipment - Operation run only

Trips and VMT - Operation run only

On-road Fugitive Dust - Operation run only

Demolition - Operation run only

Grading - Operation run only

Architectural Coating - Operation run only

Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP

Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place

Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polcicy 8.36) + 30% reduction in non-residential indoor water use (just for gov/civic

Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51

Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses

Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Table Name	Column Name	Default Value	New Value
tbIFireplaces	FireplaceWoodMass	3,078.40	0.00
tbIFireplaces	FireplaceWoodMass	3,078.40	0.00
tbIFireplaces	FireplaceWoodMass	3,078.40	0.00
tbIFireplaces	NumberGas	291.50	477.00
tbIFireplaces	NumberGas	170.50	297.00

tb\Fireplaces	NumberGas	88.00	144.00
tb\Fireplaces	NumberWood	185.50	0.00
tb\Fireplaces	NumberWood	108.50	0.00
tb\Fireplaces	NumberWood	56.00	0.00
tb\ProjectCharacteristics	CH4IntensityFactor	0.033	0
tb\ProjectCharacteristics	CO2IntensityFactor	203.98	25
tb\ProjectCharacteristics	N2OIntensityFactor	0.004	0
tb\VehicleTrips	CC_TL	7.30	4.00
tb\VehicleTrips	CC_TL	7.30	4.50
tb\VehicleTrips	CNW_TL	7.30	4.00
tb\VehicleTrips	CNW_TL	7.30	4.50
tb\VehicleTrips	CW_TL	9.50	7.40
tb\VehicleTrips	CW_TL	9.50	7.40
tb\VehicleTrips	HO_TL	7.50	4.60
tb\VehicleTrips	HO_TL	7.50	3.10
tb\VehicleTrips	HO_TL	7.50	3.00
tb\VehicleTrips	HS_TL	7.30	4.50
tb\VehicleTrips	HS_TL	7.30	3.10
tb\VehicleTrips	HS_TL	7.30	3.10
tb\VehicleTrips	HW_TL	10.80	7.40
tb\VehicleTrips	HW_TL	10.80	5.00
tb\VehicleTrips	HW_TL	10.80	6.10
tb\Water	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tb\Water	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tb\Water	IndoorWaterUseRate	9,932,984.29	3,017,893.00
tb\Water	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tb\Water	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tb\Water	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tb\Water	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tb\Water	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tb\Water	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tb\Woodstoves	NumberCatalytic	26.50	0.00
tb\Woodstoves	NumberCatalytic	15.50	0.00
tb\Woodstoves	NumberCatalytic	8.00	0.00
tb\Woodstoves	NumberNoncatalytic	26.50	0.00
tb\Woodstoves	NumberNoncatalytic	15.50	0.00
tb\Woodstoves	NumberNoncatalytic	8.00	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00
tb\Woodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	6.7239	0.7097	7.6588	4.3800e-	0.0917	0.0917		0.0917	0.0917	0.0917	0.0000	735.1925	735.192	0.0254	0.0133	739.778
Energy	0.0897	0.7686	0.3436	4.8900e-	0.0620	0.0620		0.0620	0.0620	0.0620	0.0000	948.9249	948.924	0.0170	0.0163	954.198

Mobile	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.810	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	16.0448	5.8791	21.9239	1.6480	0.0389	74.7184
<b>Total</b>	<b>9.4691</b>	<b>3.7857</b>	<b>30.2250</b>	<b>0.0479</b>	<b>5.1121</b>	<b>0.1751</b>	<b>5.2872</b>	<b>1.3668</b>	<b>0.1737</b>	<b>1.5405</b>	<b>175.8555</b>	<b>5,248.88</b>	<b>5,424.74</b>	<b>11.3996</b>	<b>0.2625</b>	<b>5,787.95</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	6.7239	0.7097	7.6588	4.3800e-		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.192	0.0254	0.0133	739.778
Energy	0.0897	0.7686	0.3436	4.8900e-		0.0620	0.0620		0.0620	0.0620	0.0000	947.5013	947.501	0.0170	0.0163	952.774
Mobile	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.810	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	16.0448	4.9575	21.0023	1.6480	0.0389	73.7968
<b>Total</b>	<b>9.4691</b>	<b>3.7857</b>	<b>30.2250</b>	<b>0.0479</b>	<b>5.1121</b>	<b>0.1751</b>	<b>5.2872</b>	<b>1.3668</b>	<b>0.1737</b>	<b>1.5405</b>	<b>175.8555</b>	<b>5,246.54</b>	<b>5,422.39</b>	<b>11.3996</b>	<b>0.2625</b>	<b>5,785.60</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>	<b>0.04</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
Unmitigated	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>	<b>13,914,803</b>	<b>13,914,803</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6

Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
City Park	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Condo/Townhouse	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Government (Civic Center)	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Single Family Housing	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting  
Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	60.1354	60.1354	0.0000	0.0000	60.1354
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.5590	61.5590	0.0000	0.0000	61.5590
NaturalGas Mitigated	0.0897	0.7686	0.3436	4.8900e-		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.365	0.0170	0.0163	892.639
NaturalGas Unmitigated	0.0897	0.7686	0.3436	4.8900e-		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.365	0.0170	0.0163	892.639

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	6.17788	0.0333	0.2847	0.1211	1.8200e-		0.0230	0.0230		0.0230	0.0230	0.0000	329.675	329.6750	6.3200e-	6.0400e-	331.634
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032	0.0316	0.2696	0.1147	1.7200e-		0.0218	0.0218		0.0218	0.0218	0.0000	312.195	312.1955	5.9800e-	5.7200e-	314.050
Government (Civic	815000	4.3900e-	0.0400	0.0336	2.4000e-		3.0400e-	3.0400e-		3.0400e-	3.0400e-	0.0000	43.4915	43.4915	8.3000e-	8.0000e-	43.7500
Single Family Housing	3.78541	0.0204	0.1744	0.0742	1.1100e-		0.0141	0.0141		0.0141	0.0141	0.0000	202.003	202.0039	3.8700e-	3.7000e-	203.204
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.365</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.639</b>

##### Mitigated

Land Use	Natural	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	6.17788	0.0333	0.2847	0.1211	1.8200e-		0.0230	0.0230		0.0230	0.0230	0.0000	329.675	329.6750	6.3200e-	6.0400e-	331.634



Consumer Products	4.6072				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-	0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.062	0.0139	0.0133	727.359	
Landscaping	0.2212	0.0853	7.3931	3.9000e-	0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187	
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-</b>	<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.192</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.778</b>	

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.062	0.0139	0.0133	727.359
Landscaping	0.2212	0.0853	7.3931	3.9000e-		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.192</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.778</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

Category	Total	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.0023	1.6480	0.0389	73.7968
Unmitigated	21.9239	1.6480	0.0389	74.7184

**7.2 Water by Land Use**

**Unmitigated**

Land Use	Indoor/ Mgal	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	13.5582	5.7000	0.4418	0.0104	19.8535
City Park	0 /	0.6477	0.0000	0.0000	0.6477
Condo/Townhouse	19.8257	8.3348	0.6460	0.0153	29.0310
Government (Civic	3.01789	1.2834	0.0983	2.3200e-	4.4338
Single Family Housing	14.1722	5.9581	0.4618	0.0109	20.7525
<b>Total</b>		<b>21.9239</b>	<b>1.6480</b>	<b>0.0389</b>	<b>74.7184</b>

**Mitigated**

Land Use	Indoor/ Mgal	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	13.5582	5.5118	0.4418	0.0104	19.6653
City Park	0 /	0.4327	0.0000	0.0000	0.4327
Condo/Townhouse	19.8257	8.0598	0.6460	0.0153	28.7559
Government (Civic	3.01789	1.2366	0.0983	2.3200e-	4.3870
Single Family Housing	14.1722	5.7614	0.4618	0.0109	20.5558
<b>Total</b>		<b>21.0023</b>	<b>1.6480</b>	<b>0.0389</b>	<b>73.7968</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total	CH4	N2O	CO2e
	MT/yr			
Mitigated	159.810	9.4445	0.0000	395.9243
Unmitigated	159.810	9.4445	0.0000	395.9243

### 8.2 Waste by Land Use

#### Unmitigated

Land Use	Waste tons	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.607
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic)	285	57.8524	3.4190	0.0000	143.326
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.810</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.924</b>

#### Mitigated

Land Use	Waste tons	Total	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.607
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic)	285	57.8524	3.4190	0.0000	143.326
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.810</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.924</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2040\_annual\_fully mitigated without NG.xlsx  
EI Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	25	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

- Land Use -
- Construction Phase - Operation run only
- Off-road Equipment - Operation run only
- Trips and VMT - Operation run only
- On-road Fugitive Dust - Operation run only
- Demolition - Operation run only
- Grading - Operation run only
- Architectural Coating - Operation run only
- Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP
- Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place
- Water And Wastewater - Adjust Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36) + 30% reduction in non-residential indoor water use (just for gov/civic land
- Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51
- Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses
- Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)
- Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	3,172.76	3,960.27
tblEnergyUse	NT24E	3,795.01	4,582.52
tblEnergyUse	NT24E	3.62	3.76
tblEnergyUse	NT24E	6,155.97	6,943.48
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00



tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	108.87	2,737.64
tblEnergyUse	T24E	80.14	4,823.70
tblEnergyUse	T24E	2.87	7.51
tblEnergyUse	T24E	142.58	6,289.07
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	16,185.01	0.00
tblEnergyUse	T24NG	15.83	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00
tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	25
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	3,017,893.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00

tbWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tbWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tbWoodstoves	WoodstoveWoodMass	3,019.20	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Area	6.7239	0.7097	7.6588	4.3800e-		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.192	0.0254	0.0133	739.778
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	116.8258	116.825	0.0000	0.0000	116.825
Mobile	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.810	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	16.0448	5.8791	21.9239	1.6480	0.0389	74.7184
<b>Total</b>	<b>9.3795</b>	<b>3.0170</b>	<b>29.8813</b>	<b>0.0430</b>	<b>5.1121</b>	<b>0.1131</b>	<b>5.2252</b>	<b>1.3668</b>	<b>0.1117</b>	<b>1.4785</b>	<b>175.8555</b>	<b>4,416.78</b>	<b>4,592.64</b>	<b>11.3825</b>	<b>0.2462</b>	<b>4,950.57</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Area	6.7239	0.7097	7.6588	4.3800e-		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.192	0.0254	0.0133	739.778
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	115.4022	115.402	0.0000	0.0000	115.402
Mobile	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.810	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	16.0448	4.9575	21.0023	1.6480	0.0389	73.7968
<b>Total</b>	<b>9.3795</b>	<b>3.0170</b>	<b>29.8813</b>	<b>0.0430</b>	<b>5.1121</b>	<b>0.1131</b>	<b>5.2252</b>	<b>1.3668</b>	<b>0.1117</b>	<b>1.4785</b>	<b>175.8555</b>	<b>4,414.44</b>	<b>4,590.29</b>	<b>11.3825</b>	<b>0.2462</b>	<b>4,948.23</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total	CH4	N2O	CO2e
Category	tons/yr											MT/yr				
Mitigated	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
												89	89			25
Unmitigated	2.6556	2.3074	22.2226	0.0386	5.1121	0.0214	5.1336	1.3668	0.0200	1.3869	0.0000	3,558.88	3,558.88	0.2646	0.1941	3,623.33
												89	89			25

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
City Park	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Condo/Townhouse	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Government (Civic Center)	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108
Single Family Housing	0.493892	0.059218	0.219804	0.141013	0.027602	0.005981	0.012190	0.004071	0.000638	0.000674	0.030860	0.000950	0.003108

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr											MT/yr				
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.4022	115.4022	0.0000	0.0000	115.4022
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	116.8258	116.8258	0.0000	0.0000	116.8258



### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.97938e+006	45.1255	0.0000	0.0000	45.1255
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.22627e+006	36.5853	0.0000	0.0000	36.5853
Government (Civic Center)	722000	8.1873	0.0000	0.0000	8.1873
Single Family Housing	2.37462e+006	26.9278	0.0000	0.0000	26.9278
<b>Total</b>		<b>116.8258</b>	<b>0.0000</b>	<b>0.0000</b>	<b>116.8258</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.92154e+006	44.4695	0.0000	0.0000	44.4695
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.18547e+006	36.1226	0.0000	0.0000	36.1226
Government (Civic Center)	722000	8.1873	0.0000	0.0000	8.1873
Single Family Housing	2.34772e+006	26.6228	0.0000	0.0000	26.6228
<b>Total</b>		<b>115.4022</b>	<b>0.0000</b>	<b>0.0000</b>	<b>115.4022</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780
Unmitigated	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187

<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>
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**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.0023	1.6480	0.0389	73.7968
Unmitigated	21.9239	1.6480	0.0389	74.7184

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582	5.7000	0.4418	0.0104	19.8535
City Park	0 /	0.6477	0.0000	0.0000	0.6477
Condo/Townhouse	16.3192 /	8.3348	0.6460	0.0153	29.0310
Government (Civic Center)	19.8257 /	1.2834	0.0983	2.3200e-003	4.4338
Single Family Housing	3.01789 /	5.9581	0.4618	0.0109	20.7525
<b>Total</b>		<b>21.9239</b>	<b>1.6480</b>	<b>0.0389</b>	<b>74.7184</b>

**Mitigated**

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
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Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582	5.5118	0.4418	0.0104	19.6653
City Park	0 / 10.9012	0.4327	0.0000	0.0000	0.4327
Condo/Townhouse	19.8257	8.0598	0.6460	0.0153	28.7559
Government (Civic Center)	3.01789	1.2366	0.0983	2.3200e- 003	4.3870
Single Family Housing	14.1722	5.7614	0.4618	0.0109	20.5558
<b>Total</b>		<b>21.0023</b>	<b>1.6480</b>	<b>0.0389</b>	<b>73.7968</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	159.810 7	9.4445	0.0000	395.9243
Unmitigated	159.810 7	9.4445	0.0000	395.9243

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.607 4
City Park	1.38	0.2801	0.0166	0.0000	0.6940



Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

**Mitigated**

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2045\_annual\_unmitigated.xlsx  
EI Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2045
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.
- Land Use -
- Construction Phase - Operation run only
- Off-road Equipment - Operation run only
- Trips and VMT - Operation run only
- On-road Fugitive Dust - Operation run only
- Demolition - Operation run only
- Grading - Operation run only
- Architectural Coating - Operation run only
- Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP
- Woodstoves -
- Water And Wastewater - Adjusted Water Consumption per WSA + 13% reduction in outdoor
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -
- Energy Use -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	0
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50

tb\VehicleTrips	CNW TL	7.30	4.00
tb\VehicleTrips	CNW TL	7.30	4.50
tb\VehicleTrips	CW TL	9.50	7.40
tb\VehicleTrips	CW TL	9.50	7.40
tb\VehicleTrips	HO TL	7.50	4.60
tb\VehicleTrips	HO TL	7.50	3.10
tb\VehicleTrips	HO TL	7.50	3.00
tb\VehicleTrips	HS TL	7.30	4.50
tb\VehicleTrips	HS TL	7.30	3.10
tb\VehicleTrips	HS TL	7.30	3.10
tb\VehicleTrips	HW TL	10.80	7.40
tb\VehicleTrips	HW TL	10.80	5.00
tb\VehicleTrips	HW TL	10.80	6.10
tb\Water	IndoorWaterUseRate	34,531,633.58	16,947,750.00
tb\Water	IndoorWaterUseRate	20,197,747.94	24,782,088.00
tb\Water	IndoorWaterUseRate	9,932,984.29	4,311,275.00
tb\Water	IndoorWaterUseRate	10,424,644.10	17,715,195.00
tb\Water	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tb\Water	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tb\Water	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tb\Water	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tb\Water	OutdoorWaterUseRate	6,572,058.24	14,923,127.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	69.3971	1.3107	84.8465	0.1407		10.9009	10.9009		10.9009	10.9009	1,032.9577	445.3374	1,478.2951	0.9648	0.0813	1,526.6275
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391
Mobile	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.1619	3,449.1619	0.2443	0.1868	3,510.9425
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.8107	9.4445	0.0000	395.9243
Water						0.0000	0.0000		0.0000	0.0000	20.2269	0.0000	20.2269	2.0775	0.0491	86.7826
<b>Total</b>	<b>71.8984</b>	<b>4.1781</b>	<b>106.2845</b>	<b>0.1831</b>	<b>5.1100</b>	<b>10.9809</b>	<b>16.0909</b>	<b>1.3659</b>	<b>10.9797</b>	<b>12.3456</b>	<b>1,212.9954</b>	<b>4,781.8652</b>	<b>5,994.8606</b>	<b>12.7482</b>	<b>0.3334</b>	<b>6,412.9159</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	69.3971	1.3107	84.8465	0.1407		10.9009	10.9009		10.9009	10.9009	1,032.9577	445.3374	1,478.2951	0.9648	0.0813	1,526.6275
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391
Mobile	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.1619	3,449.1619	0.2443	0.1868	3,510.9425
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.8107	9.4445	0.0000	395.9243
Water						0.0000	0.0000		0.0000	0.0000	20.2269	0.0000	20.2269	2.0775	0.0491	86.7826
<b>Total</b>	<b>71.8984</b>	<b>4.1781</b>	<b>106.2845</b>	<b>0.1831</b>	<b>5.1100</b>	<b>10.9809</b>	<b>16.0909</b>	<b>1.3659</b>	<b>10.9797</b>	<b>12.3456</b>	<b>1,212.9954</b>	<b>4,781.8652</b>	<b>5,994.8606</b>	<b>12.7482</b>	<b>0.3334</b>	<b>6,412.9159</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.1619	3,449.1619	0.2443	0.1868	3,510.9425
Unmitigated	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.1619	3,449.1619	0.2443	0.1868	3,510.9425

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007

Single Family Housing	1,510.40	1,526.40	1368.00	2,094.721	2,094.721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
City Park	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Condo/Townhouse	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Government (Civic Center)	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Single Family Housing	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391
NaturalGas Unmitigated	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391

#### 5.2 Energy by Land Use - NaturalGas

##### Unmitigated

	Natural Gas	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	6.17788e+006	0.0333	0.2847	0.1211	1.8200e-003		0.0230	0.0230		0.0230	0.0230	0.0000	329.6750	329.6750	6.3200e-003	6.0400e-003	331.6341
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507
Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>

**Mitigated**

	Natural Gas	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	6.17788e+006	0.0333	0.2847	0.1211	1.8200e-003		0.0230	0.0230		0.0230	0.0230	0.0000	329.6750	329.6750	6.3200e-003	6.0400e-003	331.6341
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507
Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	2.16875e+006	0.0000	0.0000	0.0000	0.0000

City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.51164 e+006	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	483000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.26518 e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	2.16875 e+006	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.51164 e+006	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	483000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.26518 e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	69.3971	1.3107	84.8465	0.1407		10.9009	10.9009		10.9009	10.9009	1,032.9577	445.3374	1,478.2951	0.9648	0.0813	1,526.6275
Unmitigated	69.3971	1.3107	84.8465	0.1407		10.9009	10.9009		10.9009	10.9009	1,032.9577	445.3374	1,478.2951	0.9648	0.0813	1,526.6275

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	1.8225						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	4.6072						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	62.7462	1.2254	77.4534	0.1403			10.8597	10.8597		10.8597	10.8597	1,032.9577	433.2074	1,466.1651	0.9533	0.0813	1,514.2088
Landscaping	0.2212	0.0853	7.3931	3.9000e-004			0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>69.3971</b>	<b>1.3107</b>	<b>84.8465</b>	<b>0.1407</b>			<b>10.9009</b>	<b>10.9009</b>		<b>10.9009</b>	<b>10.9009</b>	<b>1,032.9577</b>	<b>445.3374</b>	<b>1,478.2951</b>	<b>0.9648</b>	<b>0.0813</b>	<b>1,526.6275</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	1.8225						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	4.6072						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	62.7462	1.2254	77.4534	0.1403			10.8597	10.8597		10.8597	10.8597	1,032.9577	433.2074	1,466.1651	0.9533	0.0813	1,514.2088
Landscaping	0.2212	0.0853	7.3931	3.9000e-004			0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>69.3971</b>	<b>1.3107</b>	<b>84.8465</b>	<b>0.1407</b>			<b>10.9009</b>	<b>10.9009</b>		<b>10.9009</b>	<b>10.9009</b>	<b>1,032.9577</b>	<b>445.3374</b>	<b>1,478.2951</b>	<b>0.9648</b>	<b>0.0813</b>	<b>1,526.6275</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.2269	2.0775	0.0491	86.7826



Unmitigated	20.2269	2.0775	0.0491	86.7826
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## 7.2 Water by Land Use

### Unmitigated

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	16.9477	5.3767	0.5522	0.0130	23.0686
City Park	0 / 16.3192	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	24.7821	7.8622	0.8075	0.0191	33.7324
Government (Civic Center)	4.31128	1.3678	0.1405	3.3200e- 003	5.8683
Single Family Housing	17.7152	5.6202	0.5773	0.0136	24.1132
<b>Total</b>		<b>20.2269</b>	<b>2.0775</b>	<b>0.0491</b>	<b>86.7826</b>

### Mitigated

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	16.9477	5.3767	0.5522	0.0130	23.0686
City Park	0 / 16.3192	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	24.7821	7.8622	0.8075	0.0191	33.7324
Government (Civic Center)	4.31128	1.3678	0.1405	3.3200e- 003	5.8683
Single Family Housing	17.7152	5.6202	0.5773	0.0136	24.1132
<b>Total</b>		<b>20.2269</b>	<b>2.0775</b>	<b>0.0491</b>	<b>86.7826</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	159.8107	9.4445	0.0000	395.9243
Unmitigated	159.8107	9.4445	0.0000	395.9243

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

**Mitigated**

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269

Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2045\_annual\_partially mitigated.xlsx  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000soft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2045
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjusted Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polcicy 8.36)  
 Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51  
 Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses  
 Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)  
 Energy Use -

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00
tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00

tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	0
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	4,311,275.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391

Mobile	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.16	3,449.16	0.2443	0.1868	3,510.94
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.810	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	16.4551	0.0000	16.4551	1.6901	0.0399	70.5998
<b>Total</b>	<b>9.2253</b>	<b>3.5771</b>	<b>29.0968</b>	<b>0.0467</b>	<b>5.1100</b>	<b>0.1717</b>	<b>5.2817</b>	<b>1.3659</b>	<b>0.1705</b>	<b>1.5364</b>	<b>176.2658</b>	<b>5,071.72</b>	<b>5,247.98</b>	<b>11.4214</b>	<b>0.2563</b>	<b>5,609.88</b>
												<b>19</b>	<b>19</b>			<b>25</b>
													<b>7</b>			<b>3</b>
																<b>36</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.192	0.0254	0.0133	739.778
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.365	0.0170	0.0163	892.639
Mobile	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.16	3,449.16	0.2443	0.1868	3,510.94
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.810	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	16.4551	0.0000	16.4551	1.6901	0.0399	70.5998
<b>Total</b>	<b>9.2253</b>	<b>3.5771</b>	<b>29.0968</b>	<b>0.0467</b>	<b>5.1100</b>	<b>0.1717</b>	<b>5.2817</b>	<b>1.3659</b>	<b>0.1705</b>	<b>1.5364</b>	<b>176.2658</b>	<b>5,071.72</b>	<b>5,247.98</b>	<b>11.4214</b>	<b>0.2563</b>	<b>5,609.88</b>
												<b>19</b>	<b>19</b>			<b>25</b>
													<b>7</b>			<b>3</b>
																<b>36</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.16	3,449.16	0.2443	0.1868	3,510.94
												<b>19</b>	<b>19</b>			<b>25</b>

Unmitigated	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.16	3,449.16	0.2443	0.1868	3,510.94
												19	19			25

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3,328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1,946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1,368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
City Park	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Condo/Townhouse	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Government (Civic Center)	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Single Family Housing	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
NaturalGas Mitigated	0.0897	0.7686	0.3436	4.8900e-003			0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391
NaturalGas Unmitigated	0.0897	0.7686	0.3436	4.8900e-003			0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Apartments Low Rise	6.17788e+006	0.0333	0.2847	0.1211	1.8200e-003			0.0230	0.0230		0.0230	0.0230	0.0000	329.6750	329.6750	6.3200e-003	6.0400e-003	331.6341
City Park	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003			0.0218	0.0218		0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507
Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004			3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003			0.0141	0.0141		0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>			<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>

### Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Apartments Low Rise	6.17788e+006	0.0333	0.2847	0.1211	1.8200e-003			0.0230	0.0230		0.0230	0.0230	0.0000	329.6750	329.6750	6.3200e-003	6.0400e-003	331.6341
City Park	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003			0.0218	0.0218		0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507



Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004	3.0400e-003	3.0400e-003	3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003	0.0141	0.0141	0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	2.16875e+006	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.51164e+006	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	483000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.26518e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Apartments Low Rise	2.11091e+006	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.47084e+006	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	483000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.23828e+006	0.0000	0.0000	0.0000	0.0000

<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>
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**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780
Unmitigated	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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SubCategory	tons/yr										MT/yr					
	Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.4551	1.6901	0.0399	70.5998
Unmitigated	16.4551	1.6901	0.0399	70.5998

### 7.2 Water by Land Use

#### Unmitigated

Land Use	Indoor/Outdoor	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Apartments Low Rise	13.5582	4.3014	0.4418	0.0104	18.4549
City Park	/	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	16.3192	6.2898	0.6460	0.0153	26.9859
Government (Civic Center)	4.31128	1.3678	0.1405	3.3200e-003	5.8683
Single Family Housing	14.1722	4.4962	0.4618	0.0109	19.2906

<b>Total</b>	<b>16.4551</b>	<b>1.6901</b>	<b>0.0399</b>	<b>70.5998</b>
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**Mitigated**

	Indoor/O utdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582	4.3014	0.4418	0.0104	18.4549
City Park	0 / 10.9012	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	19.8257	6.2898	0.6460	0.0153	26.9859
Government (Civic Center)	4.31128	1.3678	0.1405	3.3200e- 003	5.8683
Single Family Housing	14.1722	4.4962	0.4618	0.0109	19.2906
<b>Total</b>		<b>16.4551</b>	<b>1.6901</b>	<b>0.0399</b>	<b>70.5998</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	159.810 7	9.4445	0.0000	395.9243
Unmitigated	159.810 7	9.4445	0.0000	395.9243

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Dispose	Total CO2	CH4	N2O	CO2e
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Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

**Mitigated**

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2045\_annual\_fully mitigated with NG.xlsx  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2045
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.  
 Land Use -  
 Construction Phase - Operation run only  
 Off-road Equipment - Operation run only  
 Trips and VMT - Operation run only  
 On-road Fugitive Dust - Operation run only  
 Demolition - Operation run only  
 Grading - Operation run only  
 Architectural Coating - Operation run only  
 Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP  
 Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place  
 Water And Wastewater - Adjusted Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36) + 30% reduction in non-residential indoor water use  
 Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51  
 Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses  
 Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00
tblFireplaces	NumberWood	185.50	0.00

tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	0
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	3,017,893.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00
tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780
Energy	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391





#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
<b>Total</b>	<b>9,370.68</b>	<b>8,395.36</b>	<b>6,678.24</b>	<b>13,914,803</b>	<b>13,914,803</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
City Park	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Condo/Townhouse	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Government (Civic Center)	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Single Family Housing	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577

#### 5.0 Energy Detail

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr									MT/yr							
Electricity Mitigated						0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Electricity Unmitigated						0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
NaturalGas Mitigated	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620			0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391
NaturalGas Unmitigated	0.0897	0.7686	0.3436	4.8900e-003		0.0620	0.0620			0.0620	0.0620	0.0000	887.3659	887.3659	0.0170	0.0163	892.6391

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	Natural Gas	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr									MT/yr						
Apartments Low Rise	6.17788e+006	0.0333	0.2847	0.1211	1.8200e-003		0.0230	0.0230		0.0230	0.0230	0.0000	329.6750	329.6750	6.3200e-003	6.0400e-003	331.6341
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507
Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043
<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>

### Mitigated

	Natural Gas	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr									MT/yr						
Apartments Low Rise	6.17788e+006	0.0333	0.2847	0.1211	1.8200e-003		0.0230	0.0230		0.0230	0.0230	0.0000	329.6750	329.6750	6.3200e-003	6.0400e-003	331.6341
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.85032e+006	0.0316	0.2696	0.1147	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	312.1955	312.1955	5.9800e-003	5.7200e-003	314.0507
Government (Civic Center)	815000	4.3900e-003	0.0400	0.0336	2.4000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4915	43.4915	8.3000e-004	8.0000e-004	43.7500
Single Family Housing	3.78541e+006	0.0204	0.1744	0.0742	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.0039	202.0039	3.8700e-003	3.7000e-003	203.2043

<b>Total</b>		<b>0.0897</b>	<b>0.7686</b>	<b>0.3436</b>	<b>4.8900e-003</b>		<b>0.0620</b>	<b>0.0620</b>		<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>887.3659</b>	<b>887.3659</b>	<b>0.0170</b>	<b>0.0163</b>	<b>892.6391</b>
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### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	2.16875e+006	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.51164e+006	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	483000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.26518e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	2.11091e+006	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.47084e+006	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	483000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.23828e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780
Unmitigated	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.0448	1.6480	0.0389	68.8393
Unmitigated	16.0448	1.6480	0.0389	68.8393

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582	4.3014	0.4418	0.0104	18.4549
City Park	0 / 16.3192	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	19.8257	6.2898	0.6460	0.0153	26.9859
Government (Civic Center)	3.01789	0.9574	0.0983	2.3200e-003	4.1078
Single Family Housing	14.1722	4.4962	0.4618	0.0109	19.2906
<b>Total</b>		<b>16.0448</b>	<b>1.6480</b>	<b>0.0389</b>	<b>68.8393</b>

#### Mitigated

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582	4.3014	0.4418	0.0104	18.4549
City Park	0 / 10.9012	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	19.8257	6.2898	0.6460	0.0153	26.9859

Government (Civic Center)	3.01789 /	0.9574	0.0983	2.3200e- 003	4.1078
Single Family Housing	14.1722 /	4.4962	0.4618	0.0109	19.2906
<b>Total</b>		<b>16.0448</b>	<b>1.6480</b>	<b>0.0389</b>	<b>68.8393</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	159.810 7	9.4445	0.0000	395.9243
Unmitigated	159.810 7	9.4445	0.0000	395.9243

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.607 4
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.326 9
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.810 7</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.924 3</b>

#### Mitigated

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**CEDHSP ops\_2045\_annual\_fully mitigated without NG.xlsx  
EI Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	50.00	1000sqft	1.15	50,000.00	0
City Park	16.00	Acre	16.00	696,960.00	0
Apartments Low Rise	530.00	Dwelling Unit	33.13	530,000.00	1516
Condo/Townhouse	310.00	Dwelling Unit	19.38	310,000.00	887
Single Family Housing	160.00	Dwelling Unit	51.95	288,000.00	458

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	2			<b>Operational Year</b>	2045
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity</b>	0	<b>CH4 Intensity</b>	0	<b>N2O Intensity</b>	0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE Power Label for 2021, extrapolated based on RPS targets.

Land Use -

Construction Phase - Operation run only

Off-road Equipment - Operation run only

Trips and VMT - Operation run only

On-road Fugitive Dust - Operation run only

Demolition - Operation run only

Grading - Operation run only

Architectural Coating - Operation run only

Vehicle Trips - Adjusted Trips as per VMT Calculator CEDHSP

Woodstoves - Defaults changed to reflect implementataion of Policy 8.50 and 8.51 - Only Natural Gas Hearth" no wood fire place

Energy Use - The scenario assumes no natural gas - all natural gas energy needs assumed to be provided by electricity

Water And Wastewater - Adjusted Water Consumption per WSA + 13% reduction in outdoor + 20% outdoor reduction (Polciy 8.36) + 30% reduction in non-residential indoor water use

Area Mitigation - Only Natural Gas Hearth - Policy 8.50 and 8.51

Energy Mitigation - Assuming installation of Energy Star Appliances (Policy 8.16) for all pieces and all uses

Water Mitigation - Inserted 83% reclaimed water for outdoor (indoor is 0%)

Table Name	Column Name	Default Value	New Value
tblEnergyUse	NT24E	3,172.76	3,960.27
tblEnergyUse	NT24E	3,795.01	4,582.52



tblEnergyUse	NT24E	6,155.97	6,943.48
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	NT24NG	0.47	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	108.87	2,737.64
tblEnergyUse	T24E	80.14	4,823.70
tblEnergyUse	T24E	2.87	7.51
tblEnergyUse	T24E	142.58	6,289.07
tblEnergyUse	T24NG	8,969.37	0.00
tblEnergyUse	T24NG	16,185.01	0.00
tblEnergyUse	T24NG	15.83	0.00
tblEnergyUse	T24NG	20,971.81	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	291.50	477.00
tblFireplaces	NumberGas	170.50	297.00
tblFireplaces	NumberGas	88.00	144.00
tblFireplaces	NumberWood	185.50	0.00
tblFireplaces	NumberWood	108.50	0.00
tblFireplaces	NumberWood	56.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	0
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CC_TL	7.30	4.50
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	4.50
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	CW_TL	9.50	7.40
tblVehicleTrips	HO_TL	7.50	4.60
tblVehicleTrips	HO_TL	7.50	3.10
tblVehicleTrips	HO_TL	7.50	3.00
tblVehicleTrips	HS_TL	7.30	4.50
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HS_TL	7.30	3.10
tblVehicleTrips	HW_TL	10.80	7.40
tblVehicleTrips	HW_TL	10.80	5.00
tblVehicleTrips	HW_TL	10.80	6.10
tblWater	IndoorWaterUseRate	34,531,633.58	13,558,200.00
tblWater	IndoorWaterUseRate	20,197,747.94	19,825,670.00
tblWater	IndoorWaterUseRate	9,932,984.29	3,017,893.00
tblWater	IndoorWaterUseRate	10,424,644.10	14,172,156.00
tblWater	OutdoorWaterUseRate	21,769,942.91	14,276,637.00
tblWater	OutdoorWaterUseRate	19,063,701.59	16,319,161.00
tblWater	OutdoorWaterUseRate	12,733,362.83	20,876,214.00
tblWater	OutdoorWaterUseRate	6,087,958.12	3,546,371.00

tblWater	OutdoorWaterUseRate	6,572,058.24	14,923,127.00
tblWoodstoves	NumberCatalytic	26.50	0.00
tblWoodstoves	NumberCatalytic	15.50	0.00
tblWoodstoves	NumberCatalytic	8.00	0.00
tblWoodstoves	NumberNoncatalytic	26.50	0.00
tblWoodstoves	NumberNoncatalytic	15.50	0.00
tblWoodstoves	NumberNoncatalytic	8.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.7239	0.7097	7.6588	4.3800e-		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.778
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.16	3,449.16	0.2443	0.1868	3,510.94
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.8107	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	16.0448	0.0000	16.0448	1.6480	0.0389	68.8393
<b>Total</b>	<b>9.1356</b>	<b>2.8085</b>	<b>28.7532</b>	<b>0.0418</b>	<b>5.1100</b>	<b>0.1098</b>	<b>5.2197</b>	<b>1.3659</b>	<b>0.1086</b>	<b>1.4745</b>	<b>175.8555</b>	<b>4,184.35</b>	<b>4,360.20</b>	<b>11.3622</b>	<b>0.2390</b>	<b>4,715.48</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio-	Total	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.7239	0.7097	7.6588	4.3800e-		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.778
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.16	3,449.16	0.2443	0.1868	3,510.94
Waste						0.0000	0.0000		0.0000	0.0000	159.8107	0.0000	159.8107	9.4445	0.0000	395.924
Water						0.0000	0.0000		0.0000	0.0000	16.0448	0.0000	16.0448	1.6480	0.0389	68.8393
<b>Total</b>	<b>9.1356</b>	<b>2.8085</b>	<b>28.7532</b>	<b>0.0418</b>	<b>5.1100</b>	<b>0.1098</b>	<b>5.2197</b>	<b>1.3659</b>	<b>0.1086</b>	<b>1.4745</b>	<b>175.8555</b>	<b>4,184.35</b>	<b>4,360.20</b>	<b>11.3622</b>	<b>0.2390</b>	<b>4,715.48</b>

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio-	NBio-	Total	CH4	N2O	CO2e
Percent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.16	3,449.16	0.2443	0.1868	3,510.94
Unmitigated	2.4117	2.0988	21.0944	0.0375	5.1100	0.0181	5.1281	1.3659	0.0169	1.3828	0.0000	3,449.16	3,449.16	0.2443	0.1868	3,510.94
												19	19			25
												19	19			25

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,879.60	4,314.20	3328.40	7,206,984	7,206,984
City Park	12.48	31.36	35.04	25,083	25,083
Condo/Townhouse	2,269.20	2,523.40	1946.80	2,856,007	2,856,007
Government (Civic Center)	1,699.00	0.00	0.00	1,732,007	1,732,007
Single Family Housing	1,510.40	1,526.40	1368.00	2,094,721	2,094,721
Total	9,370.68	8,395.36	6,678.24	13,914,803	13,914,803

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	7.40	4.50	4.60	42.60	21.00	36.40	86	11	3
City Park	7.40	4.00	4.00	33.00	48.00	19.00	66	28	6
Condo/Townhouse	5.00	3.10	3.10	42.60	21.00	36.40	86	11	3
Government (Civic Center)	7.40	4.50	4.50	75.00	20.00	5.00	50	34	16
Single Family Housing	6.10	3.10	3.00	42.60	21.00	36.40	86	11	3

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
City Park	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Condo/Townhouse	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Government (Civic Center)	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577
Single Family Housing	0.498894	0.059395	0.219550	0.140088	0.025581	0.005674	0.012162	0.003993	0.000628	0.000729	0.029794	0.000934	0.002577



Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Natural Gas	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.97938e+006	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.22627e+006	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	715000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.37462e+006	0.0000	0.0000	0.0000	0.0000

<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>
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**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.92154e+006	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.18547e+006	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	715000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.34772e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780
Unmitigated	6.7239	0.7097	7.6588	4.3800e-003		0.0917	0.0917		0.0917	0.0917	0.0000	735.1925	735.1925	0.0254	0.0133	739.7780

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.8225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6072					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0731	0.6244	0.2657	3.9900e-003		0.0505	0.0505		0.0505	0.0505	0.0000	723.0625	723.0625	0.0139	0.0133	727.3593
Landscaping	0.2212	0.0853	7.3931	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1300	12.1300	0.0116	0.0000	12.4187
<b>Total</b>	<b>6.7239</b>	<b>0.7097</b>	<b>7.6588</b>	<b>4.3800e-003</b>		<b>0.0917</b>	<b>0.0917</b>		<b>0.0917</b>	<b>0.0917</b>	<b>0.0000</b>	<b>735.1925</b>	<b>735.1925</b>	<b>0.0254</b>	<b>0.0133</b>	<b>739.7780</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e

Category	MT/yr			
	Mitigated	16.0448	1.6480	0.0389
Unmitigated	16.0448	1.6480	0.0389	68.8393

## 7.2 Water by Land Use

### Unmitigated

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582 /	4.3014	0.4418	0.0104	18.4549
City Park	0 / 16.3192	0.0000	0.0000	0.0000	0.0000
Condo/Townh ouse	19.8257 /	6.2898	0.6460	0.0153	26.9859
Government (Civic Center)	3.01789 /	0.9574	0.0983	2.3200e- 003	4.1078
Single Family Housing	14.1722 /	4.4962	0.4618	0.0109	19.2906
<b>Total</b>		<b>16.0448</b>	<b>1.6480</b>	<b>0.0389</b>	<b>68.8393</b>

### Mitigated

	Indoor/ Outdoor	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	13.5582 /	4.3014	0.4418	0.0104	18.4549
City Park	0 / 10.9012	0.0000	0.0000	0.0000	0.0000
Condo/Townh ouse	19.8257 /	6.2898	0.6460	0.0153	26.9859
Government (Civic Center)	3.01789 /	0.9574	0.0983	2.3200e- 003	4.1078
Single Family Housing	14.1722 /	4.4962	0.4618	0.0109	19.2906



<b>Total</b>	<b>16.0448</b>	<b>1.6480</b>	<b>0.0389</b>	<b>68.8393</b>
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## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	159.8107	9.4445	0.0000	395.9243
Unmitigated	159.8107	9.4445	0.0000	395.9243

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise City Park	243.8	49.4892	2.9247	0.0000	122.6074
Condo/Townhouse	1.38	0.2801	0.0166	0.0000	0.6940
Government (Civic Center)	142.6	28.9465	1.7107	0.0000	71.7138
Single Family Housing	285	57.8524	3.4190	0.0000	143.3269
<b>Total</b>	<b>114.5</b>	<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

#### Mitigated

	Waste Dispose	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	243.8	49.4892	2.9247	0.0000	122.6074
City Park	1.38	0.2801	0.0166	0.0000	0.6940
Condo/Townhouse	142.6	28.9465	1.7107	0.0000	71.7138
Government (Civic Center)	285	57.8524	3.4190	0.0000	143.3269
Single Family Housing	114.5	23.2425	1.3736	0.0000	57.5822
<b>Total</b>		<b>159.8107</b>	<b>9.4446</b>	<b>0.0000</b>	<b>395.9243</b>

# Project Report - i-Tree Planting Calculator

Location: El Dorado Hills, California 95762

Electricity Emissions Factor: 556.45 pounds CO2 equivalent/MWh

Fuel Emissions Factor: 52.00 kilograms CO2 equivalent/MMBtu

Lifetime: 30 years

Project Lifetime Tree Mortality: 10%



All amounts in the tables are for the full lifetime of the project.

Location		CO <sub>2</sub> (Carbon Dioxide) Benefits			
Group Identifier	Tree Group Characteristics	CO <sub>2</sub> (Carbon Dioxide) Avoided (pounds)	CO <sub>2</sub> Avoided (\$)	CO <sub>2</sub> Sequestered (pounds)	CO <sub>2</sub> Sequestered (\$)
1	<ul style="list-style-type: none"> <li>(3266.0) Oak spp(Quercus) at 1.0 inch <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	8,781,571.4	\$204,232.28	18,314,056.3	\$425,928.50
<b>Total</b>		<b>8,781,571.4</b>	<b>\$204,232.28</b>	<b>18,314,056.3</b>	<b>\$425,928.50</b>

Location		Energy Benefits			
Group Identifier	Tree Group Characteristics	Electricity Saved (kWh) (Kilowatt-Hours)	Electricity Saved (\$)	Fuel Saved (MMBtu) (Millions of British Thermal Units)	Fuel Saved (\$)
1	<ul style="list-style-type: none"> <li>(3266.0) Oak spp(Quercus) at 1.0 inch <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	11,720,711.1	\$2,399,229.57	14,172.8	\$183,391.43
<b>Total</b>		<b>11,720,711.1</b>	<b>\$2,399,229.57</b>	<b>14,172.8</b>	<b>\$183,391.43</b>

Location		Ecological Benefits			
Group Identifier	Tree Group Characteristics	Tree Biomass (short ton)	Rainfall Interception (gallons)	Runoff Avoided (gallons)	Runoff Avoided (\$)
1	<ul style="list-style-type: none"> <li>(3266.0) Oak spp(Quercus) at 1.0 inch <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	4,531.0	61,890,090.2	2,213,703.1	\$19,781.66
<b>Total</b>		<b>4,531.0</b>	<b>61,890,090.2</b>	<b>2,213,703.1</b>	<b>\$19,781.66</b>

Location		Air Benefits									
Group Identifier	Tree Group Characteristics	O <sub>3</sub> (Ozone) Removed (pounds)	NO <sub>2</sub> (Nitrogen Dioxide) Avoided (pounds)	NO <sub>2</sub> (Nitrogen Dioxide) Removed (pounds)	SO <sub>2</sub> (Sulfur Dioxide) Avoided (pounds)	SO <sub>2</sub> (Sulfur Dioxide) Removed (pounds)	VOC (Volatile Organic Compound) Avoided (pounds)	PM <sub>2.5</sub> (Particulate matter smaller than 2.5 micrometers in diameter) Avoided (pounds)	PM <sub>2.5</sub> (Particulate matter smaller than 2.5 micrometers in diameter) Removed (pounds)	Avoided Value (Values for avoided pollutants ) (\$)	Removal Value (Values for removed pollutants ) (\$)
1	<ul style="list-style-type: none"> <li>(3266.0) Oak spp(Quercus) at 1.0 inch DBH (Diameter at Breast Height).</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heating and cooling.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	38,617.52	631.76	1,480.91	2,223.20	443.08	5,947.26	3,811.13	75,495.56	\$10,482.93	\$3,567.59
<b>Total</b>		<b>38,617.52</b>	<b>631.76</b>	<b>1,480.91</b>	<b>2,223.20</b>	<b>443.08</b>	<b>5,947.26</b>	<b>3,811.13</b>	<b>75,495.56</b>	<b>\$10,482.93</b>	<b>\$3,567.59</b>

Sequestration and biomass are gross values that exclude losses to mortality.

Application v2.6.0, powered by engine v0.13.0 (APIv2) and database v12.0.49.



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Version 2.6.0

## Project Report - i-Tree Planting Calculator<sub>v2.1.3</sub>

Location: El Dorado Hills, California 95762

Electricity Emissions Factor: 556.45 pounds CO2 equivalent/MWh

Fuel Emissions Factor: 52.00 kilograms CO2 equivalent/MMBtu

Lifetime: 30 years

Tree Mortality: 10%

All amounts in the tables are for the full lifetime of the project.



Location		<u>CO<sub>2</sub> (Carbon Dioxide) Benefits</u>			
Group Identifier	Tree Group Characteristics	<u>CO<sub>2</sub> (Carbon Dioxide) Avoided (pounds)</u>	<u>CO<sub>2</sub> Avoided (\$)</u>	<u>CO<sub>2</sub> Sequestered (pounds)</u>	<u>CO<sub>2</sub> Sequestered (\$)</u>
1	<ul style="list-style-type: none"> <li>(14.0) Oak, Coastal live oak; California live (Quercus agrifolia) at 2.7 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	50,287.7	\$1,169.54	53,078.9	\$1,234.45
3	<ul style="list-style-type: none"> <li>(4.0) Oak, Interior live (Quercus wislizeni) at 27.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	22,556.5	\$524.59	94,727.3	\$2,203.06
4	<ul style="list-style-type: none"> <li>(649.0) Oak (Quercus species) at 9.800000000000002 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	2,613,072.6	\$60,772.01	6,842,795.8	\$159,142.34
5	<ul style="list-style-type: none"> <li>(3.0) Oak (Quercus species) at 43.300000000000004 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	12,291.2	\$285.86	33,744.5	\$784.79
6	<ul style="list-style-type: none"> <li>(2.0) Oak (Quercus species) at 5.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	6,786.2	\$157.83	15,722.3	\$365.65



Location		<u>CO<sub>2</sub> (Carbon Dioxide) Benefits</u>			
Group Identifier	Tree Group Characteristics	<u>CO<sub>2</sub> (Carbon Dioxide) Avoided (pounds)</u>	CO <sub>2</sub> Avoided (\$)	CO <sub>2</sub> Sequestered (pounds)	CO <sub>2</sub> Sequestered (\$)
7	<ul style="list-style-type: none"> <li>• (2.0) Oak (Quercus species) at 34.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	8,194.2	\$190.57	33,119.4	\$770.25

Location		Energy Benefits			
Group Identifier	Tree Group Characteristics	Electricity Saved (kWh) (Kilowatt-Hours)	Electricity Saved (\$)	Fuel Saved (MMBtu) (Millions of British Thermal Units)	Fuel Saved (\$)
1	<ul style="list-style-type: none"> <li>(14.0) Oak, Coastal live oak; California live (Quercus agrifolia) at 2.7 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	55,301.3	\$11,320.17	144.1	\$1,864.68
3	<ul style="list-style-type: none"> <li>(4.0) Oak, Interior live (Quercus wislizeni) at 27.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	24,936.5	\$5,104.49	63.9	\$827.36
4	<ul style="list-style-type: none"> <li>(649.0) Oak (Quercus species) at 9.800000000000002 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	3,488,246.5	\$714,044.06	4,214.3	\$54,531.29
5	<ul style="list-style-type: none"> <li>(3.0) Oak (Quercus species) at 43.300000000000004 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	16,402.0	\$3,357.48	19.9	\$256.91

Location		Energy Benefits			
Group Identifier	Tree Group Characteristics	Electricity Saved (kWh) (Kilowatt-Hours)	Electricity Saved (\$)	Fuel Saved (MMBtu) (Millions of British Thermal Units)	Fuel Saved (\$)
6	<ul style="list-style-type: none"> <li>(2.0) Oak (Quercus species) at 5.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	9,065.6	\$1,855.72	10.9	\$141.17
7	<ul style="list-style-type: none"> <li>(2.0) Oak (Quercus species) at 34.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	10,934.6	\$2,238.32	13.2	\$171.27

Location		Ecosystem Services			
Group Identifier	Tree Group Characteristics	Tree Biomass (short ton)	Rainfall Interception (gallons)	Runoff Avoided (gallons)	Runoff Avoided (\$)
1	<ul style="list-style-type: none"> <li>(14.0) Oak, Coastal live oak; California live (Quercus agrifolia) at 2.7 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	13.2	203,735.5	7,287.3	\$65.12
3	<ul style="list-style-type: none"> <li>(4.0) Oak, Interior live (Quercus wislizeni) at 27.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	39.6	372,288.5	13,316.1	\$118.99
4	<ul style="list-style-type: none"> <li>(649.0) Oak (Quercus species) at 9.800000000000002 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	1,945.7	28,788,548.9	1,029,717.4	\$9,201.56
5	<ul style="list-style-type: none"> <li>(3.0) Oak (Quercus species) at 43.300000000000004 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>Trees are in excellent condition and planted in full sun.</li> </ul>	30.6	338,221.1	12,097.6	\$108.10

Location		Ecosystem Services			
Group Identifier	Tree Group Characteristics	Tree Biomass (short ton)	Rainfall Interception (gallons)	Runoff Avoided (gallons)	Runoff Avoided (\$)
6	<ul style="list-style-type: none"> <li>• (2.0) Oak (Quercus species) at 5.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	4.1	61,254.3	2,191.0	\$19.58
7	<ul style="list-style-type: none"> <li>• (2.0) Oak (Quercus species) at 34.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	17.4	190,987.4	6,831.3	\$61.04

Location		Air Benefits							
Group Identifier	Tree Group Characteristics	<u>O<sub>3</sub></u> (Ozone) Removed (pounds)	<u>NO<sub>2</sub></u> (Nitrogen Dioxide) Avoided (pounds)	<u>NO<sub>2</sub></u> (Nitrogen Dioxide) Removed (pounds)	<u>SO<sub>2</sub></u> (Sulfur Dioxide) Avoided (pounds)	<u>SO<sub>2</sub></u> (Sulfur Dioxide) Removed (pounds)	<u>VOC</u> (Volatile Organic Compound) Avoided (pounds)	<u>PM<sub>2.5</sub></u> (Particulate matter smaller than 2.5 micrometers in diameter) Avoided (pounds)	<u>PM<sub>2.5</sub></u> (Particulate matter smaller than 2.5 micrometers in diameter) Removed (pounds)
1	<ul style="list-style-type: none"> <li>• (14.0) Oak, Coastal live oak; California live (Quercus agrifolia) at 2.7 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	179.8	3.6	9.9	12.7	2.5	28.5	18.1	6.1

3	<ul style="list-style-type: none"> <li>• (4.0) Oak, Interior live (Quercus wislizeni) at 27.0 inches <u>DBH</u> (Diameter at Breast Height).</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	295.9	1.6	16.2	5.7	4.2	12.8	8.1	9.3
4	<ul style="list-style-type: none"> <li>• (649.0) Oak (Quercus species) at 9.800000000000002 inches <u>DBH</u> (Diameter at Breast Height).</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	18,761.3	188.0	721.6	661.5	215.1	1,770.0	1,134.2	18,992.6

5	<ul style="list-style-type: none"> <li>• (3.0) Oak (Quercus species) at 43.300000000000004 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	181.4	0.9	6.9	3.1	2.1	8.3	5.3	56.9
6	<ul style="list-style-type: none"> <li>• (2.0) Oak (Quercus species) at 5.0 inches <u>DBH (Diameter at Breast Height)</u>.</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	39.1	0.5	1.5	1.7	0.4	4.6	2.9	54.3



7	<ul style="list-style-type: none"> <li>• (2.0) Oak (<i>Quercus</i> species) at 34.0 inches <u>DBH</u> (<u>Diameter at Breast Height</u>).</li> <li>• Planted 0-19 feet and north (0°) of buildings that were built post-1980 with heat and A/C.</li> <li>• Trees are in excellent condition and planted in full sun.</li> </ul>	113.5	0.6	4.3	2.1	1.3	5.5	3.6	52.4
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Powered by engine v0.6.2 (APIv2) and database v11.1.26.



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[www.arboday.org](http://www.arboday.org)

[www.urban-forestry.com](http://www.urban-forestry.com)

[www.isa-arbor.com](http://www.isa-arbor.com)

[www.caseytrees.org](http://www.caseytrees.org)

[www.esf.edu](http://www.esf.edu)

[www.northeasternforests.org](http://www.northeasternforests.org)

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<https://help.itreetools.org/eula>*

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Land use change - permanent impacts  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	10.00	Dwelling Unit	3.25	18,000.00	29

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use Change - Vegetation land use type and acres from EIR Eratta Table 3.3-5 permanent direct impacts on bio resources. Tonnes annual CO2 is default. Assume riparian woodland is forest land, scrub; oakwood land is forest land, trees.

Sequestration -

Land Use - Dummy land use type, 10 single family homes.

Table Name	Column Name	Default Value	New Value
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**2.0 Emissions Summary**

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2174	1.9971	2.1661	3.7400e-003	0.0838	0.0957	0.1795	0.0407	0.0898	0.1305	0.0000	322.8417	322.8417	0.0784	5.1000e-004	324.9524
2024	0.2940	0.1061	0.1556	2.5000e-004	1.5400e-003	5.0700e-003	6.6100e-003	4.1000e-004	4.7400e-003	5.1500e-003	0.0000	21.7542	21.7542	5.6200e-003	4.0000e-005	21.9072
<b>Maximum</b>	<b>0.2940</b>	<b>1.9971</b>	<b>2.1661</b>	<b>3.7400e-003</b>	<b>0.0838</b>	<b>0.0957</b>	<b>0.1795</b>	<b>0.0407</b>	<b>0.0898</b>	<b>0.1305</b>	<b>0.0000</b>	<b>322.8417</b>	<b>322.8417</b>	<b>0.0784</b>	<b>5.1000e-004</b>	<b>324.9524</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2174	1.9971	2.1661	3.7400e-003	0.0838	0.0957	0.1795	0.0407	0.0898	0.1305	0.0000	322.8413	322.8413	0.0784	5.1000e-004	324.9521
2024	0.2940	0.1061	0.1556	2.5000e-004	1.5400e-003	5.0700e-003	6.6100e-003	4.1000e-004	4.7400e-003	5.1500e-003	0.0000	21.7542	21.7542	5.6200e-003	4.0000e-005	21.9072
<b>Maximum</b>	<b>0.2940</b>	<b>1.9971</b>	<b>2.1661</b>	<b>3.7400e-003</b>	<b>0.0838</b>	<b>0.0957</b>	<b>0.1795</b>	<b>0.0407</b>	<b>0.0898</b>	<b>0.1305</b>	<b>0.0000</b>	<b>322.8413</b>	<b>322.8413</b>	<b>0.0784</b>	<b>5.1000e-004</b>	<b>324.9521</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	0.6398	0.6398
2	4-2-2023	7-1-2023	0.5215	0.5215
3	7-2-2023	10-1-2023	0.5272	0.5272
4	10-2-2023	1-1-2024	0.5270	0.5270
5	1-2-2024	4-1-2024	0.3770	0.3770
		Highest	0.6398	0.6398

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7281	0.0131	0.8485	1.4100e-003		0.1090	0.1090		0.1090	0.1090	10.3296	4.4534	14.7829	9.6500e-003	8.1000e-004	15.2663
Energy	6.0000e-004	5.1300e-003	2.1800e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	13.2998	13.2998	1.3000e-003	2.5000e-004	13.4079
Mobile	0.0432	0.0455	0.3948	7.7000e-004	0.0982	5.1000e-004	0.0987	0.0263	4.7000e-004	0.0268	0.0000	70.9349	70.9349	4.6200e-003	3.4100e-003	72.0671
Waste						0.0000	0.0000		0.0000	0.0000	1.4717	0.0000	1.4717	0.0870	0.0000	3.6460
Water						0.0000	0.0000		0.0000	0.0000	0.2067	0.4592	0.6659	0.0213	5.1000e-004	1.3506
<b>Total</b>	<b>0.7719</b>	<b>0.0637</b>	<b>1.2455</b>	<b>2.2100e-003</b>	<b>0.0982</b>	<b>0.1099</b>	<b>0.2082</b>	<b>0.0263</b>	<b>0.1099</b>	<b>0.1362</b>	<b>12.0080</b>	<b>89.1473</b>	<b>101.1553</b>	<b>0.1238</b>	<b>4.9800e-003</b>	<b>105.7379</b>



Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
Vegetation Land Change	- 3,632.294 8
Total	- 3,632.294 8

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/27/2023	5	20	
2	Site Preparation	Site Preparation	1/28/2023	2/3/2023	5	5	
3	Grading	Grading	2/4/2023	2/15/2023	5	8	
4	Building Construction	Building Construction	2/16/2023	1/3/2024	5	230	
5	Paving	Paving	1/4/2024	1/29/2024	5	18	
6	Architectural Coating	Architectural Coating	1/30/2024	2/22/2024	5	18	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 0**

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Residential Indoor: 36,450; Residential Outdoor: 12,150; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**



Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
<b>Total</b>	<b>0.0227</b>	<b>0.2148</b>	<b>0.1964</b>	<b>3.9000e-004</b>		<b>9.9800e-003</b>	<b>9.9800e-003</b>		<b>9.2800e-003</b>	<b>9.2800e-003</b>	<b>0.0000</b>	<b>33.9921</b>	<b>33.9921</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>34.2301</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.5000e-004	4.1800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9564	0.9564	3.0000e-005	3.0000e-005	0.9663
<b>Total</b>	<b>5.4000e-004</b>	<b>3.5000e-004</b>	<b>4.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9564</b>	<b>0.9564</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9663</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
<b>Total</b>	<b>0.0227</b>	<b>0.2148</b>	<b>0.1964</b>	<b>3.9000e-004</b>		<b>9.9800e-003</b>	<b>9.9800e-003</b>		<b>9.2800e-003</b>	<b>9.2800e-003</b>	<b>0.0000</b>	<b>33.9920</b>	<b>33.9920</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>34.2300</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.5000e-004	4.1800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9564	0.9564	3.0000e-005	3.0000e-005	0.9663
<b>Total</b>	<b>5.4000e-004</b>	<b>3.5000e-004</b>	<b>4.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9564</b>	<b>0.9564</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9663</b>

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0688</b>	<b>0.0456</b>	<b>1.0000e-004</b>	<b>0.0491</b>	<b>3.1700e-003</b>	<b>0.0523</b>	<b>0.0253</b>	<b>2.9100e-003</b>	<b>0.0282</b>	<b>0.0000</b>	<b>8.3627</b>	<b>8.3627</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.4303</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2500e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2869	0.2869	1.0000e-005	1.0000e-005	0.2899
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2869</b>	<b>0.2869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2899</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0688</b>	<b>0.0456</b>	<b>1.0000e-004</b>	<b>0.0491</b>	<b>3.1700e-003</b>	<b>0.0523</b>	<b>0.0253</b>	<b>2.9100e-003</b>	<b>0.0282</b>	<b>0.0000</b>	<b>8.3627</b>	<b>8.3627</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>8.4303</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2500e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2869	0.2869	1.0000e-005	1.0000e-005	0.2899
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2869</b>	<b>0.2869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2899</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085
<b>Total</b>	<b>6.8400e-003</b>	<b>0.0717</b>	<b>0.0590</b>	<b>1.2000e-004</b>	<b>0.0283</b>	<b>3.1000e-003</b>	<b>0.0314</b>	<b>0.0137</b>	<b>2.8500e-003</b>	<b>0.0166</b>	<b>0.0000</b>	<b>10.4243</b>	<b>10.4243</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.5085</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.4000e-004	1.6700e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3826	0.3826	1.0000e-005	1.0000e-005	0.3865
<b>Total</b>	<b>2.1000e-004</b>	<b>1.4000e-004</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3826</b>	<b>0.3826</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3865</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085
<b>Total</b>	<b>6.8400e-003</b>	<b>0.0717</b>	<b>0.0590</b>	<b>1.2000e-004</b>	<b>0.0283</b>	<b>3.1000e-003</b>	<b>0.0314</b>	<b>0.0137</b>	<b>2.8500e-003</b>	<b>0.0166</b>	<b>0.0000</b>	<b>10.4242</b>	<b>10.4242</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.5085</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.4000e-004	1.6700e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3826	0.3826	1.0000e-005	1.0000e-005	0.3865
<b>Total</b>	<b>2.1000e-004</b>	<b>1.4000e-004</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3826</b>	<b>0.3826</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3865</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6327	1.8437	3.0600e-003		0.0794	0.0794		0.0747	0.0747	0.0000	263.0984	263.0984	0.0626	0.0000	264.6631
<b>Total</b>	<b>0.1785</b>	<b>1.6327</b>	<b>1.8437</b>	<b>3.0600e-003</b>		<b>0.0794</b>	<b>0.0794</b>		<b>0.0747</b>	<b>0.0747</b>	<b>0.0000</b>	<b>263.0984</b>	<b>263.0984</b>	<b>0.0626</b>	<b>0.0000</b>	<b>264.6631</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	7.3200e-003	1.6200e-003	3.0000e-005	7.4000e-004	4.0000e-005	7.8000e-004	2.1000e-004	4.0000e-005	2.5000e-004	0.0000	2.4439	2.4439	1.0000e-005	3.7000e-004	2.5531
Worker	1.6200e-003	1.0700e-003	0.0126	3.0000e-005	3.5700e-003	2.0000e-005	3.5900e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.8946	2.8946	1.0000e-004	9.0000e-005	2.9246
<b>Total</b>	<b>1.7800e-003</b>	<b>8.3900e-003</b>	<b>0.0143</b>	<b>6.0000e-005</b>	<b>4.3100e-003</b>	<b>6.0000e-005</b>	<b>4.3700e-003</b>	<b>1.1600e-003</b>	<b>6.0000e-005</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>5.3385</b>	<b>5.3385</b>	<b>1.1000e-004</b>	<b>4.6000e-004</b>	<b>5.4778</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6327	1.8437	3.0600e-003		0.0794	0.0794		0.0747	0.0747	0.0000	263.0981	263.0981	0.0626	0.0000	264.6628
<b>Total</b>	<b>0.1785</b>	<b>1.6327</b>	<b>1.8437</b>	<b>3.0600e-003</b>		<b>0.0794</b>	<b>0.0794</b>		<b>0.0747</b>	<b>0.0747</b>	<b>0.0000</b>	<b>263.0981</b>	<b>263.0981</b>	<b>0.0626</b>	<b>0.0000</b>	<b>264.6628</b>



Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	7.3200e-003	1.6200e-003	3.0000e-005	7.4000e-004	4.0000e-005	7.8000e-004	2.1000e-004	4.0000e-005	2.5000e-004	0.0000	2.4439	2.4439	1.0000e-005	3.7000e-004	2.5531
Worker	1.6200e-003	1.0700e-003	0.0126	3.0000e-005	3.5700e-003	2.0000e-005	3.5900e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.8946	2.8946	1.0000e-004	9.0000e-005	2.9246
<b>Total</b>	<b>1.7800e-003</b>	<b>8.3900e-003</b>	<b>0.0143</b>	<b>6.0000e-005</b>	<b>4.3100e-003</b>	<b>6.0000e-005</b>	<b>4.3700e-003</b>	<b>1.1600e-003</b>	<b>6.0000e-005</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>5.3385</b>	<b>5.3385</b>	<b>1.1000e-004</b>	<b>4.6000e-004</b>	<b>5.4778</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2100e-003	0.0202	0.0243	4.0000e-005		9.2000e-004	9.2000e-004		8.7000e-004	8.7000e-004	0.0000	3.4777	3.4777	8.2000e-004	0.0000	3.4983
<b>Total</b>	<b>2.2100e-003</b>	<b>0.0202</b>	<b>0.0243</b>	<b>4.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>8.7000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.4777</b>	<b>3.4777</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>3.4983</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	9.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0318	0.0318	0.0000	0.0000	0.0332
Worker	2.0000e-005	1.0000e-005	1.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0371	0.0371	0.0000	0.0000	0.0374
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0689</b>	<b>0.0689</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0707</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2100e-003	0.0202	0.0243	4.0000e-005		9.2000e-004	9.2000e-004		8.7000e-004	8.7000e-004	0.0000	3.4777	3.4777	8.2000e-004	0.0000	3.4983
<b>Total</b>	<b>2.2100e-003</b>	<b>0.0202</b>	<b>0.0243</b>	<b>4.0000e-005</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>		<b>8.7000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.4777</b>	<b>3.4777</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>3.4983</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	9.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0318	0.0318	0.0000	0.0000	0.0332
Worker	2.0000e-005	1.0000e-005	1.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0371	0.0371	0.0000	0.0000	0.0374
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0689</b>	<b>0.0689</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0707</b>

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.9300e-003</b>	<b>0.0745</b>	<b>0.1100</b>	<b>1.7000e-004</b>		<b>3.5900e-003</b>	<b>3.5900e-003</b>		<b>3.3200e-003</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>14.7423</b>	<b>14.7423</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8581</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.8000e-004	4.6400e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.1118	1.1118	4.0000e-005	3.0000e-005	1.1229
<b>Total</b>	<b>6.0000e-004</b>	<b>3.8000e-004</b>	<b>4.6400e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.1118</b>	<b>1.1118</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1229</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.9300e-003</b>	<b>0.0745</b>	<b>0.1100</b>	<b>1.7000e-004</b>		<b>3.5900e-003</b>	<b>3.5900e-003</b>		<b>3.3200e-003</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>14.7423</b>	<b>14.7423</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8581</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.8000e-004	4.6400e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.1118	1.1118	4.0000e-005	3.0000e-005	1.1229
<b>Total</b>	<b>6.0000e-004</b>	<b>3.8000e-004</b>	<b>4.6400e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.1118</b>	<b>1.1118</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1229</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2816					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
<b>Total</b>	<b>0.2832</b>	<b>0.0110</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.3012</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0556	0.0556	0.0000	0.0000	0.0561
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0556</b>	<b>0.0556</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0561</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2816					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
<b>Total</b>	<b>0.2832</b>	<b>0.0110</b>	<b>0.0163</b>	<b>3.0000e-005</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>		<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.3012</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0556	0.0556	0.0000	0.0000	0.0561
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0556</b>	<b>0.0556</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0561</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0432	0.0455	0.3948	7.7000e-004	0.0982	5.1000e-004	0.0987	0.0263	4.7000e-004	0.0268	0.0000	70.9349	70.9349	4.6200e-003	3.4100e-003	72.0671
Unmitigated	0.0432	0.0455	0.3948	7.7000e-004	0.0982	5.1000e-004	0.0987	0.0263	4.7000e-004	0.0268	0.0000	70.9349	70.9349	4.6200e-003	3.4100e-003	72.0671

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	94.40	95.40	85.50	267,180	267,180
Total	94.40	95.40	85.50	267,180	267,180

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987



Land use change - permanent impacts - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7.3616	7.3616	1.1900e-003	1.4000e-004	7.4344
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7.3616	7.3616	1.1900e-003	1.4000e-004	7.4344
NaturalGas Mitigated	6.0000e-004	5.1300e-003	2.1800e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.9383	5.9383	1.1000e-004	1.1000e-004	5.9735
NaturalGas Unmitigated	6.0000e-004	5.1300e-003	2.1800e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.9383	5.9383	1.1000e-004	1.1000e-004	5.9735

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	tons/yr															MT/yr
Land Use																
NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Single Family Housing	6.0000e-004	5.1300e-003	2.1800e-003	3.0000e-005	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	0.0000	5.9383	5.9383	1.1000e-004	1.1000e-004	5.9735
Total	6.0000e-004	5.1300e-003	2.1800e-003	3.0000e-005	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	0.0000	5.9383	5.9383	1.1000e-004	1.1000e-004	5.9735

Mitigated

	tons/yr															MT/yr
Land Use																
NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Single Family Housing	6.0000e-004	5.1300e-003	2.1800e-003	3.0000e-005	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	0.0000	5.9383	5.9383	1.1000e-004	1.1000e-004	5.9735
Total	6.0000e-004	5.1300e-003	2.1800e-003	3.0000e-005	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	4.1000e-004	0.0000	5.9383	5.9383	1.1000e-004	1.1000e-004	5.9735

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

Unmitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
kWh/yr	MT/yr			
79564.2	7.3616	1.1900e-003	1.4000e-004	7.4344
Single Family Housing				
Total				

Mitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
kWh/yr	MT/yr			
79564.2	7.3616	1.1900e-003	1.4000e-004	7.4344
Single Family Housing				
Total				

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7281	0.0131	0.8485	1.4100e-003		0.1090	0.1090		0.1090	0.1090	10.3296	4.4534	14.7829	9.6500e-003	8.1000e-004	15.2663
Unmitigated	0.7281	0.0131	0.8485	1.4100e-003		0.1090	0.1090		0.1090	0.1090	10.3296	4.4534	14.7829	9.6500e-003	8.1000e-004	15.2663

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6275	0.0123	0.7745	1.4000e-003		0.1086	0.1086		0.1086	0.1086	10.3296	4.3321	14.6617	9.5300e-003	8.1000e-004	15.1421
Landscaping	2.2100e-003	8.5000e-004	0.0740	0.0000		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.1213	0.1213	1.2000e-004	0.0000	0.1242
<b>Total</b>	<b>0.7281</b>	<b>0.0131</b>	<b>0.8485</b>	<b>1.4000e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>	<b>10.3296</b>	<b>4.4534</b>	<b>14.7829</b>	<b>9.6500e-003</b>	<b>8.1000e-004</b>	<b>15.2663</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6275	0.0123	0.7745	1.4000e-003		0.1086	0.1086		0.1086	0.1086	10.3296	4.3321	14.6617	9.5300e-003	8.1000e-004	15.1421
Landscaping	2.2100e-003	8.5000e-004	0.0740	0.0000		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.1213	0.1213	1.2000e-004	0.0000	0.1242
<b>Total</b>	<b>0.7281</b>	<b>0.0131</b>	<b>0.8485</b>	<b>1.4000e-003</b>		<b>0.1090</b>	<b>0.1090</b>		<b>0.1090</b>	<b>0.1090</b>	<b>10.3296</b>	<b>4.4534</b>	<b>14.7829</b>	<b>9.6500e-003</b>	<b>8.1000e-004</b>	<b>15.2663</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.6659	0.0213	5.1000e-004	1.3506
Unmitigated	0.6659	0.0213	5.1000e-004	1.3506

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.65154 / 0.410754	0.6659	0.0213	5.1000e-004	1.3506
<b>Total</b>		<b>0.6659</b>	<b>0.0213</b>	<b>5.1000e-004</b>	<b>1.3506</b>

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.65154 / 0.410754	0.6659	0.0213	5.1000e-004	1.3506
<b>Total</b>		<b>0.6659</b>	<b>0.0213</b>	<b>5.1000e-004</b>	<b>1.3506</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.4717	0.0870	0.0000	3.6460
Unmitigated	1.4717	0.0870	0.0000	3.6460

Land use change - permanent impacts - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**8.2 Waste by Land Use**

Unmitigated

Land Use		Waste Disposed			
tons	Total CO2	CH4	N2O	CO2e	
7.25	1.4717	0.0870	0.0000	3.6460	Single Family Housing
MT/yr					
	1.4717	0.0870	0.0000	3.6460	<b>Total</b>

Mitigated

Land Use		Waste Disposed			
tons	Total CO2	CH4	N2O	CO2e	
7.25	1.4717	0.0870	0.0000	3.6460	Single Family Housing
MT/yr					
	1.4717	0.0870	0.0000	3.6460	<b>Total</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	- 3,632.294 8	0.0000	0.0000	- 3,632.294 8

Land use change - permanent impacts - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.1 Vegetation Land Change**

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	93.08 / 0	-401.1748	0.0000	0.0000	-401.1748
Scrub	2.4 / 0	-34.3200	0.0000	0.0000	-34.3200
Trees	28.8 / 0	-	0.0000	0.0000	-
		3,196.800			3,196.800
		0			0
Wetlands	0.33 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		-	<b>0.0000</b>	<b>0.0000</b>	-
		<b>3,632.294</b>			<b>3,632.294</b>
		<b>8</b>			<b>8</b>

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Sequestration Oak Woodland Acres Replanting + SF unit trees**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use Change - No oakwoodland land use type available, oak woodland assumed forestland - trees. Number of acres per local requirements, 1:1 ratio oakwoodland, PRC requirement 50% max replanting mitigation. See Excel for calculations.

Sequestration - No oak tree species available, Oak tree assumed mixed hardwood. Number of trees per SF unit design. See Excel for calculations.

Land Use - arbitrary land use to run model

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Residential_Exterior	1215	0
tblAreaCoating	Area_Residential_Interior	3645	0
tblSequestration	NumberOfNewTrees	0.00	320.00

**2.0 Emissions Summary**

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Maximum</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

		Highest	
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0700	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266
Energy	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.3300	1.3300	1.3000e-004	3.0000e-005	1.3408
Mobile	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067
Waste						0.0000	0.0000		0.0000	0.0000	0.1522	0.0000	0.1522	9.0000e-003	0.0000	0.3772
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.0459	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>	<b>0.0744</b>	<b>6.3600e-003</b>	<b>0.1246</b>	<b>2.2000e-004</b>	<b>9.8200e-003</b>	<b>0.0110</b>	<b>0.0208</b>	<b>2.6300e-003</b>	<b>0.0110</b>	<b>0.0136</b>	<b>1.2059</b>	<b>8.9147</b>	<b>10.1206</b>	<b>0.0127</b>	<b>5.0000e-004</b>	<b>10.5864</b>



Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	234.8800
Vegetation Land Change	- 1,598.400 0
Total	- 1,363.520 0

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/1/2023	5	10	
2	Site Preparation	Site Preparation	1/2/2023	1/1/2023	5	1	
3	Grading	Grading	1/2/2023	1/1/2023	5	2	
4	Building Construction	Building Construction	1/2/2023	1/1/2023	5	100	
5	Paving	Paving	1/2/2023	1/1/2023	5	5	
6	Architectural Coating	Architectural Coating	1/2/2023	1/1/2023	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT































Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067
Unmitigated	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.44	9.54	8.55	26,718	26,718
Total	9.44	9.54	8.55	26,718	26,718

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.7362	0.7362	1.2000e-004	1.0000e-005	0.7434
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.7362	0.7362	1.2000e-004	1.0000e-005	0.7434
NaturalGas Mitigated	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
NaturalGas Unmitigated	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	KBTU/yr																
Single Family Housing	11127.9	6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
Total		6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974

Mitigated

	NaturalGas s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	KBTU/yr																
Single Family Housing	11127.9	6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
Total		6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974



Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

Unmitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	MT/yr			
Single Family Housing	7956.42	0.7362	1.2000e-004	1.0000e-005
Total	7956.42	0.7362	1.2000e-004	1.0000e-005

Mitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	MT/yr			
Single Family Housing	7956.42	0.7362	1.2000e-004	1.0000e-005
Total	7956.42	0.7362	1.2000e-004	1.0000e-005

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0700	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266
Unmitigated	0.0700	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0628	1.2300e-003	0.0775	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4332	1.4662	9.5000e-004	8.0000e-005	1.5142
Landscaping	2.2000e-004	9.0000e-005	7.4000e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
<b>Total</b>	<b>0.0700</b>	<b>1.3200e-003</b>	<b>0.0849</b>	<b>1.4000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>1.0330</b>	<b>0.4453</b>	<b>1.4783</b>	<b>9.6000e-004</b>	<b>8.0000e-005</b>	<b>1.5266</b>

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0628	1.2300e-003	0.0775	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4332	1.4662	9.5000e-004	8.0000e-005	1.5142
Landscaping	2.2000e-004	9.0000e-005	7.4000e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
<b>Total</b>	<b>0.0700</b>	<b>1.3200e-003</b>	<b>0.0849</b>	<b>1.4000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>1.0330</b>	<b>0.4453</b>	<b>1.4783</b>	<b>9.6000e-004</b>	<b>8.0000e-005</b>	<b>1.5266</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0666	2.1300e-003	5.0000e-005	0.1351
Unmitigated	0.0666	2.1300e-003	5.0000e-005	0.1351

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>		<b>0.0666</b>	<b>2.1300e-003</b>	<b>5.0000e-005</b>	<b>0.1351</b>

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>		<b>0.0666</b>	<b>2.1300e-003</b>	<b>5.0000e-005</b>	<b>0.1351</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1522	9.0000e-003	0.0000	0.3772
Unmitigated	0.1522	9.0000e-003	0.0000	0.3772

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**8.2 Waste by Land Use**

Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0.75	0.1522	9.0000e-003	0.0000	0.3772
Single Family Housing				
Total	0.1522	9.0000e-003	0.0000	0.3772

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0.75	0.1522	9.0000e-003	0.0000	0.3772
Single Family Housing				
Total	0.1522	9.0000e-003	0.0000	0.3772

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-	0.0000	0.0000	-
	1,363.520			1,363.520
	0			0

Sequestration Oak Woodland Acres Replanting + SF unit trees - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.1 Vegetation Land Change**

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Trees	14.4 / 0	- 1,598.400 0	0.0000	0.0000	- 1,598.400 0
<b>Total</b>		<b>- 1,598.400 0</b>	<b>0.0000</b>	<b>0.0000</b>	<b>- 1,598.400 0</b>

**11.2 Net New Trees**

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Mixed Hardwood	320	234.8800	0.0000	0.0000	234.8800
<b>Total</b>		<b>234.8800</b>	<b>0.0000</b>	<b>0.0000</b>	<b>234.8800</b>



Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Land use acre reduction\_w/o oak  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - arbitrary land use to run modeling vegetation tool

Land Use Change - Permanent acres removed per EIR Eratta Table 3.3-5 Permanent Direct Impacts on Biological Resources within the CEDHSP Project Area. Oak impacts calculated using iTree by tree plantings, not acreage.

Table Name	Column Name	Default Value	New Value
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**2.0 Emissions Summary**



Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	0.2268	0.2268
2	4-2-2023	7-1-2023	0.2162	0.2162
		Highest	0.2268	0.2268

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0728	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266
Energy	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.3300	1.3300	1.3000e-004	3.0000e-005	1.3408
Mobile	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067
Waste						0.0000	0.0000		0.0000	0.0000	0.1522	0.0000	0.1522	9.0000e-003	0.0000	0.3772
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.0459	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>	<b>0.0772</b>	<b>6.3600e-003</b>	<b>0.1246</b>	<b>2.2000e-004</b>	<b>9.8200e-003</b>	<b>0.0110</b>	<b>0.0208</b>	<b>2.6300e-003</b>	<b>0.0110</b>	<b>0.0136</b>	<b>1.2059</b>	<b>8.9147</b>	<b>10.1206</b>	<b>0.0127</b>	<b>5.0000e-004</b>	<b>10.5864</b>



Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-667.5748
<b>Total</b>	<b>-667.5748</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/13/2023	5	10	
2	Site Preparation	Site Preparation	1/14/2023	1/16/2023	5	1	
3	Grading	Grading	1/17/2023	1/18/2023	5	2	
4	Building Construction	Building Construction	1/19/2023	6/7/2023	5	100	
5	Paving	Paving	6/8/2023	6/14/2023	5	5	
6	Architectural Coating	Architectural Coating	6/15/2023	6/21/2023	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

**Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2300e-003	0.0289	0.0370	6.0000e-005		1.4100e-003	1.4100e-003		1.3500e-003	1.3500e-003	0.0000	5.2091	5.2091	9.5000e-004	0.0000	5.2328
<b>Total</b>	<b>3.2300e-003</b>	<b>0.0289</b>	<b>0.0370</b>	<b>6.0000e-005</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.3500e-003</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>5.2091</b>	<b>5.2091</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>5.2328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.2000e-004	1.3900e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3188	0.3188	1.0000e-005	1.0000e-005	0.3221
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3188</b>	<b>0.3188</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3221</b>

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2300e-003	0.0289	0.0370	6.0000e-005		1.4100e-003	1.4100e-003		1.3500e-003	1.3500e-003	0.0000	5.2091	5.2091	9.5000e-004	0.0000	5.2328
<b>Total</b>	<b>3.2300e-003</b>	<b>0.0289</b>	<b>0.0370</b>	<b>6.0000e-005</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.3500e-003</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>5.2091</b>	<b>5.2091</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>5.2328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.2000e-004	1.3900e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3188	0.3188	1.0000e-005	1.0000e-005	0.3221
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3188</b>	<b>0.3188</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3221</b>



Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
<b>Total</b>	<b>2.7000e-004</b>	<b>3.0900e-003</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.1000e-004</b>	<b>3.8000e-004</b>	<b>3.0000e-005</b>	<b>1.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0159	0.0159	0.0000	0.0000	0.0161
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0161</b>

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
<b>Total</b>	<b>2.7000e-004</b>	<b>3.0900e-003</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.1000e-004</b>	<b>3.8000e-004</b>	<b>3.0000e-005</b>	<b>1.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0159	0.0159	0.0000	0.0000	0.0161
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0161</b>

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0102	5.5500e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2481
<b>Total</b>	<b>9.3000e-004</b>	<b>0.0102</b>	<b>5.5500e-003</b>	<b>1.0000e-005</b>	<b>5.3100e-003</b>	<b>4.2000e-004</b>	<b>5.7300e-003</b>	<b>2.5700e-003</b>	<b>3.9000e-004</b>	<b>2.9600e-003</b>	<b>0.0000</b>	<b>1.2381</b>	<b>1.2381</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2481</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0510	0.0510	0.0000	0.0000	0.0515
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0510</b>	<b>0.0510</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0515</b>

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0102	5.5500e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2481
<b>Total</b>	<b>9.3000e-004</b>	<b>0.0102</b>	<b>5.5500e-003</b>	<b>1.0000e-005</b>	<b>5.3100e-003</b>	<b>4.2000e-004</b>	<b>5.7300e-003</b>	<b>2.5700e-003</b>	<b>3.9000e-004</b>	<b>2.9600e-003</b>	<b>0.0000</b>	<b>1.2381</b>	<b>1.2381</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2481</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0510	0.0510	0.0000	0.0000	0.0515
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0510</b>	<b>0.0510</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0515</b>





Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2500e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2869	0.2869	1.0000e-005	1.0000e-005	0.2899
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2869</b>	<b>0.2869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2899</b>

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2500e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2869	0.2869	1.0000e-005	1.0000e-005	0.2899
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2869</b>	<b>0.2869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2899</b>







Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067
Unmitigated	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.44	9.54	8.55	26,718	26,718
Total	9.44	9.54	8.55	26,718	26,718

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.7362	0.7362	1.2000e-004	1.0000e-005	0.7434
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.7362	0.7362	1.2000e-004	1.0000e-005	0.7434
NaturalGas Mitigated	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
NaturalGas Unmitigated	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land use acre reduction\_w/o oak - El Dorado-Mountain County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	KBTU/yr																
Single Family Housing	11127.9	6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
Total		6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	KBTU/yr																
Single Family Housing	11127.9	6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
Total		6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974

Land use acre reduction\_w/o oak - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

Unmitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
kWh/yr	MT/yr			
7956.42	0.7362	1.2000e-004	1.0000e-005	0.7434
Single Family Housing				
Total	0.7362	1.2000e-004	1.0000e-005	0.7434

Mitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
kWh/yr	MT/yr			
7956.42	0.7362	1.2000e-004	1.0000e-005	0.7434
Single Family Housing				
Total	0.7362	1.2000e-004	1.0000e-005	0.7434

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0728	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266
Unmitigated	0.0728	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.8200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0628	1.2300e-003	0.0775	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4332	1.4662	9.5000e-004	8.0000e-005	1.5142
Landscaping	2.2000e-004	9.0000e-005	7.4000e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
<b>Total</b>	<b>0.0728</b>	<b>1.3200e-003</b>	<b>0.0849</b>	<b>1.4000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>1.0330</b>	<b>0.4453</b>	<b>1.4783</b>	<b>9.6000e-004</b>	<b>8.0000e-005</b>	<b>1.5266</b>

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.8200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0628	1.2300e-003	0.0775	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4332	1.4662	9.5000e-004	8.0000e-005	1.5142
Landscaping	2.2000e-004	9.0000e-005	7.4000e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
<b>Total</b>	<b>0.0728</b>	<b>1.3200e-003</b>	<b>0.0849</b>	<b>1.4000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>1.0330</b>	<b>0.4453</b>	<b>1.4783</b>	<b>9.6000e-004</b>	<b>8.0000e-005</b>	<b>1.5266</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0666	2.1300e-003	5.0000e-005	0.1351
Unmitigated	0.0666	2.1300e-003	5.0000e-005	0.1351

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>		<b>0.0666</b>	<b>2.1300e-003</b>	<b>5.0000e-005</b>	<b>0.1351</b>

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>		<b>0.0666</b>	<b>2.1300e-003</b>	<b>5.0000e-005</b>	<b>0.1351</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1522	9.0000e-003	0.0000	0.3772
Unmitigated	0.1522	9.0000e-003	0.0000	0.3772

Land use acre reduction\_w/o oak - El Dorado-Mountain County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Unmitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0.75	0.1522	9.0000e-003	0.0000	0.3772
Single Family Housing				
Total	0.1522	9.0000e-003	0.0000	0.3772

**Mitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0.75	0.1522	9.0000e-003	0.0000	0.3772
Single Family Housing				
Total	0.1522	9.0000e-003	0.0000	0.3772

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-667.5748	0.0000	0.0000	-667.5748

Land use acre reduction\_w/o oak - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.1 Vegetation Land Change**

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	93.08 / 0	-401.1748	0.0000	0.0000	-401.1748
Trees	2.4 / 0	-266.4000	0.0000	0.0000	-266.4000
Wetlands	0.328 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>-667.5748</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-667.5748</b>

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Sequestration Replanting  
El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2035
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Arbitrary land use to run modeling tool.

Sequestration - No oak tree species available, Oak tree assumed mixed hardwood. Number of trees per local requirements, 1:1 ratio for native oaks, 3:1 for heritage oak, PRC requirement 50% max replanting mitigation, assumed 1" saplings to be planted. See Excel for calculations.

Table Name	Column Name	Default Value	New Value
tblSequestration	NumberOfNewTrees	0.00	998.00

**2.0 Emissions Summary**



Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-19-2023	4-18-2023	0.2296	0.2296
2	4-19-2023	7-18-2023	0.2212	0.2212
		Highest	0.2296	0.2296

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0728	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266
Energy	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.3300	1.3300	1.3000e-004	3.0000e-005	1.3408
Mobile	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067
Waste						0.0000	0.0000		0.0000	0.0000	0.1522	0.0000	0.1522	9.0000e-003	0.0000	0.3772
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.0459	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>	<b>0.0772</b>	<b>6.3600e-003</b>	<b>0.1246</b>	<b>2.2000e-004</b>	<b>9.8200e-003</b>	<b>0.0110</b>	<b>0.0208</b>	<b>2.6300e-003</b>	<b>0.0110</b>	<b>0.0136</b>	<b>1.2059</b>	<b>8.9147</b>	<b>10.1206</b>	<b>0.0127</b>	<b>5.0000e-004</b>	<b>10.5864</b>





Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	732.5320
<b>Total</b>	<b>732.5320</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/19/2023	2/1/2023	5	10	
2	Site Preparation	Site Preparation	2/2/2023	2/2/2023	5	1	
3	Grading	Grading	2/3/2023	2/6/2023	5	2	
4	Building Construction	Building Construction	2/7/2023	6/26/2023	5	100	
5	Paving	Paving	6/27/2023	7/3/2023	5	5	
6	Architectural Coating	Architectural Coating	7/4/2023	7/10/2023	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

**Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2300e-003	0.0289	0.0370	6.0000e-005		1.4100e-003	1.4100e-003		1.3500e-003	1.3500e-003	0.0000	5.2091	5.2091	9.5000e-004	0.0000	5.2328
<b>Total</b>	<b>3.2300e-003</b>	<b>0.0289</b>	<b>0.0370</b>	<b>6.0000e-005</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.3500e-003</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>5.2091</b>	<b>5.2091</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>5.2328</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.2000e-004	1.3900e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3188	0.3188	1.0000e-005	1.0000e-005	0.3221
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3188</b>	<b>0.3188</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3221</b>

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2300e-003	0.0289	0.0370	6.0000e-005		1.4100e-003	1.4100e-003		1.3500e-003	1.3500e-003	0.0000	5.2091	5.2091	9.5000e-004	0.0000	5.2328
<b>Total</b>	<b>3.2300e-003</b>	<b>0.0289</b>	<b>0.0370</b>	<b>6.0000e-005</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.3500e-003</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>5.2091</b>	<b>5.2091</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>5.2328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.2000e-004	1.3900e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3188	0.3188	1.0000e-005	1.0000e-005	0.3221
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3188</b>	<b>0.3188</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3221</b>

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
<b>Total</b>	<b>2.7000e-004</b>	<b>3.0900e-003</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.1000e-004</b>	<b>3.8000e-004</b>	<b>3.0000e-005</b>	<b>1.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0159	0.0159	0.0000	0.0000	0.0161
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0161</b>

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
<b>Total</b>	<b>2.7000e-004</b>	<b>3.0900e-003</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.1000e-004</b>	<b>3.8000e-004</b>	<b>3.0000e-005</b>	<b>1.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4309</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0159	0.0159	0.0000	0.0000	0.0161
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0159</b>	<b>0.0159</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0161</b>

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0102	5.5500e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2481
<b>Total</b>	<b>9.3000e-004</b>	<b>0.0102</b>	<b>5.5500e-003</b>	<b>1.0000e-005</b>	<b>5.3100e-003</b>	<b>4.2000e-004</b>	<b>5.7300e-003</b>	<b>2.5700e-003</b>	<b>3.9000e-004</b>	<b>2.9600e-003</b>	<b>0.0000</b>	<b>1.2381</b>	<b>1.2381</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2481</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0510	0.0510	0.0000	0.0000	0.0515
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0510</b>	<b>0.0510</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0515</b>



Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0102	5.5500e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2481
<b>Total</b>	<b>9.3000e-004</b>	<b>0.0102</b>	<b>5.5500e-003</b>	<b>1.0000e-005</b>	<b>5.3100e-003</b>	<b>4.2000e-004</b>	<b>5.7300e-003</b>	<b>2.5700e-003</b>	<b>3.9000e-004</b>	<b>2.9600e-003</b>	<b>0.0000</b>	<b>1.2381</b>	<b>1.2381</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2481</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0510	0.0510	0.0000	0.0000	0.0515
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0510</b>	<b>0.0510</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0515</b>





Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2500e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2869	0.2869	1.0000e-005	1.0000e-005	0.2899
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2869</b>	<b>0.2869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2899</b>

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.2500e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2869	0.2869	1.0000e-005	1.0000e-005	0.2899
<b>Total</b>	<b>1.6000e-004</b>	<b>1.1000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2869</b>	<b>0.2869</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2899</b>





Sequestration Replanting - El Dorado-Mountain County County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067
Unmitigated	4.3200e-003	4.5400e-003	0.0395	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6300e-003	5.0000e-005	2.6700e-003	0.0000	7.0935	7.0935	4.6000e-004	3.4000e-004	7.2067

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	9.44	9.54	8.55	26,718	26,718
Total	9.44	9.54	8.55	26,718	26,718

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.485394	0.059668	0.220528	0.142480	0.030865	0.006618	0.011949	0.004064	0.000653	0.000616	0.032189	0.000989	0.003987



Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.7362	0.7362	1.2000e-004	1.0000e-005	0.7434
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.7362	0.7362	1.2000e-004	1.0000e-005	0.7434
NaturalGas Mitigated	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
NaturalGas Unmitigated	6.0000e-005	5.1000e-004	2.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Sequestration Replanting - El Dorado-Mountain County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	KBTU/yr																
Single Family Housing	11127.9	6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
Total		6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	KBTU/yr																
Single Family Housing	11127.9	6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974
Total		6.0000e-005	5.1000e-004	2.2000e-004	0.0000	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.5938	0.5938	1.0000e-005	1.0000e-005	0.5974

Sequestration Replanting - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	MT/yr			
Single Family Housing	7956.42	0.7362	1.2000e-004	1.0000e-005
Total	7956.42	0.7362	1.2000e-004	1.0000e-005

**Mitigated**

Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	MT/yr			
Single Family Housing	7956.42	0.7362	1.2000e-004	1.0000e-005
Total	7956.42	0.7362	1.2000e-004	1.0000e-005

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0728	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266
Unmitigated	0.0728	1.3100e-003	0.0849	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4453	1.4783	9.6000e-004	8.0000e-005	1.5266

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.8200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0628	1.2300e-003	0.0775	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4332	1.4662	9.5000e-004	8.0000e-005	1.5142
Landscaping	2.2000e-004	9.0000e-005	7.4000e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
<b>Total</b>	<b>0.0728</b>	<b>1.3200e-003</b>	<b>0.0849</b>	<b>1.4000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>1.0330</b>	<b>0.4453</b>	<b>1.4783</b>	<b>9.6000e-004</b>	<b>8.0000e-005</b>	<b>1.5266</b>

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.8200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0628	1.2300e-003	0.0775	1.4000e-004		0.0109	0.0109		0.0109	0.0109	1.0330	0.4332	1.4662	9.5000e-004	8.0000e-005	1.5142
Landscaping	2.2000e-004	9.0000e-005	7.4000e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0121	0.0121	1.0000e-005	0.0000	0.0124
<b>Total</b>	<b>0.0728</b>	<b>1.3200e-003</b>	<b>0.0849</b>	<b>1.4000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>1.0330</b>	<b>0.4453</b>	<b>1.4783</b>	<b>9.6000e-004</b>	<b>8.0000e-005</b>	<b>1.5266</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0666	2.1300e-003	5.0000e-005	0.1351
Unmitigated	0.0666	2.1300e-003	5.0000e-005	0.1351

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>		<b>0.0666</b>	<b>2.1300e-003</b>	<b>5.0000e-005</b>	<b>0.1351</b>

Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.0666	2.1300e-003	5.0000e-005	0.1351
<b>Total</b>		<b>0.0666</b>	<b>2.1300e-003</b>	<b>5.0000e-005</b>	<b>0.1351</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1522	9.0000e-003	0.0000	0.3772
Unmitigated	0.1522	9.0000e-003	0.0000	0.3772

Sequestration Replanting - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**8.2 Waste by Land Use**

Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0.75	0.1522	9.0000e-003	0.0000	0.3772
Single Family Housing				
Total	0.1522	9.0000e-003	0.0000	0.3772

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
tons	MT/yr			
0.75	0.1522	9.0000e-003	0.0000	0.3772
Single Family Housing				
Total	0.1522	9.0000e-003	0.0000	0.3772

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Sequestration Replanting - El Dorado-Mountain County County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	732.5320	0.0000	0.0000	732.5320

Sequestration Replanting - El Dorado-Mountain County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**11.2 Net New Trees**  
Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Mixed Hardwood	998	732.5320	0.0000	0.0000	732.5320
<b>Total</b>		<b>732.5320</b>	<b>0.0000</b>	<b>0.0000</b>	<b>732.5320</b>

Appendix B  
**Carbon Monoxide Modeling**

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